DRAFT HEALTH RISK ASSESSMENT

in support of
The Ascon Landfill Remedial Action Plan (RAP)
Environmental Impact Report (EIR)
Huntington Beach, CA

Prepared for:

Department of Toxic Substances Control (DTSC)

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August 2013

Table of Contents

Page

1.0 INTRODUCTION 1
1.1 Purpose 1
1.2 Site Background 1
1.3 Description of Remedial Action Plan (RAP) Development 1
1.4 Site Features 3
1.5 Summary of Alternative 4 3
1.6 Summary of Alternative 6 4
1.7 Remediation Schedule 4
1.7.1 Staging and Equipment Installation and On-site Haul Road Construction 6
1.7.2 Clearing and Grubbing 6
1.7.3 Pit F Removal 6
1.7.4 Berm Reconstruction (Alternative 4) 7
1.7.5 Lagoon 4 and 5 Removal and Remediation (Alternative 4) 7
1.7.6 Excavate and Export Up To an Additional 30,000 BCY (Alternative 4) 8
1.7.7 Excavate and Export Approximately One Million BCY (Alternative 6) 8
1.7.8 Cap Construction (Alternative 4) 9
1.7.9 Final Site Grading and Seeding 9

2.0 REGULATORY BACKGROUND 11
2.1 Risk Assessment Guidelines 11
2.2 Thresholds of Significance 13

3.0 METHODOLOGY 15
3.1 Chemicals of Potential Concern 15
3.1.1 Data Availability 15
3.1.2 Soil Gas Data 18
3.1.3 Chemical Screening Methodology 19
3.1.4 Conceptual Model of Exposure to COPCs 27
3.1.5 COPC Concentration Calculation 30
3.2 Emissions Calculations 32
3.2.1 Fugitive Dust Emissions 33
3.2.2 Vehicle and Equipment Exhaust Emissions 39
3.2.3 Concrete Breaking 41
3.2.4 Benzidine Concentrations 42
3.2.5 Volatile Emissions 43
3.2.6 Speciation and Emissions Calculations 57
3.2.7 Emissions Formatting 58
3.2.8 Pit F Emissions 58
3.2.9 Benzidine Concentrations 58
3.3 AERMOD 59
3.3.1 Source Characterization 60

Table of Contents (Continued)

Page

3.3.2 Receptors 61
3.3.3 Meteorological Data 62
3.3.4 Terrain Data 62
3.4 HARP 62
3.4.1 Exposure Parameters and Pathways 63
3.4.2 Toxicity Factors 63
3.4.3 Cancer Risk and Non-Cancer Impact Characterization and Calculations 64
3.5 Supplemental Health Risk Calculations 67
3.5.1 Dilution Factor 68
3.5.2 Health Risk Calculations 68
3.5.3 Blood Lead Calculations 69

4.0 HEALTH RISK ASSESSMENT RESULTS 71
4.1 Alternative 4 72
4.1.1 Residential Receptors 72
4.1.2 School Receptors 74
4.1.3 Worker Receptors 75
4.1.4 Park Visitor Receptors 78
4.2 Alternative 6 78
4.2.1 Residential Receptors 79
4.2.2 School Receptors 80
4.2.3 Worker Receptors 81
4.2.4 Park Visitor Receptors 84

5.0 UNCERTAINTY 87

6.0 MITIGATION MEASURES 91
6.1 Alternative 4 91
6.2 Alternative 6 91

7.0 REFERENCES 93

List of Figures

Figure 1 Diagram of Project Site
Figure 2 Site Ownership
Figure 3 ASCON Site Timeline
Figure 4 Alternative 4 Remediation Phasing
Figure 5 Alternative 6 Remediation Phasing
Figure 6 Proposed Top of Final Cover – Plan View
Figure 7 Proposed Final Cover Profiles
Figure 8 Alternative 4 Support Berm
Figure 9 ASCON Excavation/Infill Depths
Figure 10 ASCON Soil COPC Screening Flow Chart
Figure 11 ASCON Soil Gas COPC Screening Flow Chart
Figure 12 Conceptual Exposure Model - Remediation Activities
Figure 13 Benzidine Excavated Area
Figure 14 Source Receptor Diagram - Alternative 4
Figure 15 Source Receptor Diagram - Alternative 6
Figure 16 SCAQMD Costa Mesa Meteorological Station Wind Rose, 2005–2007
Figure 17 Maximum Exposed Individual Resident (MEIR) - Alternative 4
Figure 18 Maximum Exposed Individual School Receptor (MEIS) - Alternative 4
Figure 19 Maximum Exposed Individual Worker (MEIW) - Alternative 4
Figure 20 Maximum Exposed Individual Worker (Fire Station) - Alternative 4
Figure 21 Maximum Exposed Individual (Park) - Alternative 4
Figure 22 Maximum Exposed Individual Resident (MEIR) - Alternative 6
Figure 23 Maximum Exposed Individual School Receptor (MEIS) - Alternative 6
Figure 24 Maximum Exposed Individual Worker (MEIW) - Alternative 6
Figure 25 Maximum Exposed Individual Worker (Fire Station) - Alternative 6
Figure 26 Maximum Exposed Individual (Park) - Alternative 6

List of Tables

Table 1 All Chemicals (Soil)
Table 2 All Chemicals (Soil Gas)
Table 3 Alt 4 - Chemicals Not Detected
Table 4 Alt 6 - Chemicals Not Detected
Table 5 Alt 4 - Chemicals Not Detected + DL > SL
Table 6 Alt 6 - Chemicals Not Detected + DL > SL
Table 7 Surrogates (Alt 4, 6 and Soil Gas)
Table 8 Reason for Surrogate Selection
Table 9 Alt 4 - Chemicals Excluded From Further Analysis (Non-Pit F)
Table 10 Alt 6 - Chemicals Excluded From Further Analysis (Non-Pit F)
Table 11 Alt 4&6 - Chemicals Excluded From Further Analysis (Pit F)
Table 12 Alt 4 - COPC List (Non-Pit F)
Table 13 Alt 6 - COPC List (Non-Pit F)
Table 14 Alt 4&6 - COPC List (Pit F)
Table 15 Soil Gas - Chemicals Excluded from Further Analysis
Table 16 Soil Gas - COPC List
Table 17 Groundwater - COPC List

Table 18 Alternative 4 - UCL
Table 19 Alternative 6 - UCL
Table 20 Pit F - UCL (Max Concentration)
Table 21 Alternative 4 - Remediation Schedule
Table 22 Alternative 6 - Remediation Schedule
Table 23 Fugitive Dust Calculation Assumptions
Table 24 On-site Road Dust Emissions
Table 25 On-site Road Dust Emissions
Table 26 Soil Excavation and Handling Emissions- Alternative 4
Table 27 Soil Excavation and Handling Emissions- Alternative 6
Table 28 Grading and Grubbing Emissions- Alternative 4
Table 29 Grading and Grubbing Emissions- Alternative 6
Table 30 Wind Erosion Emissions- Alternative 4
Table 31 Wind Erosion Emissions- Alternative 6
Table 32 On-site Truck DPM Emissions- Alternative 4
Table 33 On-site Truck DPM Emissions- Alternative 6
Table 34 On-site Equipment- Alternative 4
Table 35 On-site Equipment- Alternative 6
Table 36 Concrete Crushing- Alternative 4
Table 37 Concrete Crushing- Alternative 6
Table 38 Benzidine Excavated Areas - Alternative 4
Table 39 Benzidine Excavated Areas - Alternative 6
Table 40 EMSOFT Model: Summary of Soil Parameters, Physical Constants, and Layer Properties
Table 41 EMSOFT Model: Summary of Volatilization Factors - Alternative 4, Non-Pit F
Table 42 EMSOFT Model: Summary of Volatilization Factors - Alternative 6, Non-Pit F
Table 43 EMSOFT Model: Summary of Volatilization Factors – Alternatives 4 and 6, Pit F
Table 44 Summary of Estimated VOC Emissions - Alternative 4
Table 45 Summary of Estimated VOC Emissions - Alternative 6
Table 46 Vapor Flux Model: Summary of Soil Parameters, Physical Constants, and Layer Properties
Table 47 Vapor Flux Model: Summary of Groundwater VOC Emission Rates - Alternative 4
Table 48 Summary of Estimated VOC Emissions from Groundwater Monitoring Wells – Alternative 4
Table 49 Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 4
Table 50 Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 6
Table 51 Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Pit F
Table 52 List of Sources - Alternative 4
Table 53 List of Sources - Alternative 6
Table 54 List of Receptors
Table 55 List of Toxicity Factors
Table 56 AERMOD Emission Rate Inputs - Alternative 4 (Fugitive Dust Speciation) - Annual
Table 57 AERMOD Emission Rate Inputs - Alternative 4 (Chemical Speciation) - Annual
Table 58 AERMOD Emission Rate Inputs - Alternative 4 (Fugitive Dust Speciation) - Hourly
Table 59 AERMOD Emission Rate Inputs - Alternative 4 (Chemical Speciation) - Hourly
Table 60 AERMOD Emission Rate Inputs - Alternative 6 (Fugitive Dust Speciation) - Annual
Table 61 AERMOD Emission Rate Inputs - Alternative 6 (Chemical Speciation) - Annual
Table 62 AERMOD Emission Rate Inputs - Alternative 6 (Fugitive Dust Speciation) - Hourly
Table 63 AERMOD Emission Rate Inputs - Alternative 6 (Chemical Speciation) - Hourly
Table 64 List of Chemicals to Analyze Outside of HARP
Table 65 Supplemental Health Risk Calculations - Alternative 4 (Dilution Factor)
Table 66 Supplemental Health Risk Calculations - Alternative 6 (Dilution Factor)
Table 67 Supplemental Health Risk Calculations - Alternative 4 (Concentration)
Table 68 Supplemental Health Risk Calculations - Alternative 6 (Concentration)

Table 69 Supplemental Health Risk Calculations - Alternative 4 (Health Risk Calculation)
Table 70 Supplemental Health Risk Calculations - Alternative 6 (Health Risk Calculation)
Table 71 CT Score Calculation (Supplemental Calculations) - Alt 4 and 6
Table 72 Cancer, Chronic and Acute Risk (Residential) - Alternative 4
Table 73 MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 74 Blood Lead Calculations (Child)
Table 75 Blood Lead Calculations (Adult)
Table 76 Cancer, Chronic and Acute Risk (School Student) - Alternative 4
Table 77 MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 78 Cancer, Chronic and Acute Risk (Worker) - Alternative 4
Table 79 MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 80 Cancer, Chronic and Acute Risk (School Worker) - Alternative 4
Table 81 MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 82 Cancer, Chronic and Acute Risk (Fire Station and Park) - Alternative 4
Table 83 MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 84 MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 4
Table 85 Cancer, Chronic and Acute Risk (Residential) - Alternative 6
Table 86 MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 87 Cancer, Chronic and Acute Risk (School Student) - Alternative 6
Table 88 MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 89 Cancer, Chronic and Acute Risk (Worker) - Alternative 6
Table 90 MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 91 Cancer, Chronic and Acute Risk (School Worker) - Alternative 6
Table 92 MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 93 Cancer, Chronic and Acute Risk (Fire Station and Park) - Alternative 6
Table 94 MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 95 MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 6
Table 96 Summary of Mitigation and Emissions Control strategies

1.0 INTRODUCTION

1.1 PURPOSE

PCR Services Corporation (PCR) has been tasked with conducting a health risk assessment (HRA) to assess the impacts from implementation of the Draft Remedial Action Plan (RAP) for the Ascon Landfill Site (Site). The Department of Toxic Substances Control (DTSC) has requested an HRA be performed to evaluate the risks to off-site sensitive land uses from implementation of the recommended remedial alternative at the Site. DTSC recommended that short-term risks to the community be evaluated quantitatively as part of a refined HRA whereas long-term risks would be evaluated upon completion of the RAP. In addition, DTSC requested that potential health risk impacts be evaluated for an additional potential remedial scenario considered in the RAP.

1.2 SITE BACKGROUND

The approximately 38-acre Site is located at the southwest corner of the intersection of Hamilton Avenue and Magnolia Street (21641 Magnolia Street) in the southeast portion of the City of Huntington Beach, California, as shown in **Figure 1**, *Diagram of Project Site*. The Site operated as a waste disposal facility from approximately 1938 through 1984. In the early years of operation, much of the waste came from oil drilling operations and included drilling muds, wastewater brines, and other drilling wastes. Records show that from 1957 to 1971, chromic acid, sulfuric acid, aluminum slag, fuel oils, styrene, and other wastes were also disposed on the Site. From 1971 to 1984, inert solid wastes such as abandoned vehicles, asphalt, concrete, metal, soil, and wood were disposed on the Site. The Site stopped receiving waste commercially in 1984. Prior landowners had entered into a voluntary cleanup agreement (VCA) with the DTSC in 1996; however, that VCA was terminated before the cleanup was conducted, and the Site was later sold.

In June 2001, DTSC notified a number of companies of their cleanup responsibilities at the Site. In 2003 DTSC entered into an Imminent and Substantial Endangerment Determination Consent Order (I&SE-CO), Docket No. I&SE-CO 02/03-007, and an Imminent and Substantial Endangerment Determination and Order and Remedial Action Order (I&SE-RAO), Docket No. I&SE-RAO 02/03-018, with the ten Responsible Parties (RPs).

1.3 DESCRIPTION OF REMEDIAL ACTION PLAN (RAP) DEVELOPMENT

The draft RAP is still under development, and expected to be released for public comment and DTSC consideration in August 2013. This HRA relies upon details provided by the RPs during the preparation of the draft RAP in the months preceding the issuance of the draft RAP.

The purpose of the RAP is to describe the proposed remediation plan for the Site. The Draft RAP was prepared pursuant to the I&SE-CO, Docket No. I&SE-CO 02/03-007, the I&SE-RAO, Docket No. I&SE-RAO 02/03-018, and DTSC's Remedial Action Plan Policy (Document #: EO-95-007-PP).

Over the past approximately 30 years, there have been numerous and extensive investigations (i.e., waste and soil characterizations, hydrogeological assessments, biological assessments, health risk assessments, groundwater contamination assessments, air quality sampling, etc.) conducted at the Site, that led up to preparation of the RAP. Of particular relevance, these investigations included several Remedial

Investigations (RI) to define the nature and extent of impacts; two Baseline Health Risk Assessments (BHRA)[1] to evaluate potential human health risks associated with the Site; and a Feasibility Study (FS)[2] and Revised Feasibility Study (RFS)[3] to evaluate several remedial action alternatives for the Site and present the rationale for selecting a preferred alternative.

Out of the alternatives provided in the DTSC-approved RFS, Alternative 4 (Partial Source Removal with Protective Cap) was selected as the "preferred alternative" for remediation of the Site. The preferred alternative includes the partial removal of existing on-site material and installation of a protective cap. Additional studies, knowledge, and experience gained since DTSC approval of the RFS in 2007 have led to modifications and updates to the RFS-selected preferred alternative. This HRA is reflective of the most up-to-date information available at the time the analyses were performed.

The alternatives evaluated in the RAP are as follows:

- RAP Alternative 1 - No Action
- RAP Alternative 2 - Limited Waste Removal
- Rap Alternative 3 - Protective Cap
- RAP Alternative 4 - Partial Source Removal with Protective Cap
- RAP Alternative 5 - Source Removal with Offsite Disposal and SIT (Slurry Injection Technology)
- RAP Alternative 6 - Source Removal with Offsite Disposal

The significant elements of the updated alternatives are summarized in Table 5-2 of the Draft RAP. Data include the present worth capital and Operations and Maintenance (O&M) costs, volumes of waste to be removed, volumes of import soils to be trucked in, estimated number of truck trips needed, and estimated duration of construction for each alternative. Each of the updated alternatives was evaluated in the RFS based on the first seven criteria of the nine National Contingency Plan (NCP) criteria (the remaining two criteria, State Acceptance and Community Acceptance, are to be evaluated as part of the final RAP/Environmental Impact Report [EIR] process). Section 5.0 of the Draft RAP provides a summary of the updated RFS alternatives evaluation with the NCP criteria. As discussed therein, based on the final evaluation and comparison of the alternatives, Alternative 4 was recommended as the preferred remedial alternative for the Site. Alternative 4 involves removal of some waste materials, consolidation of the remaining materials on-site, and construction of a cap. Details are presented in the Draft RAP and summarized below following the discussion of Site features.

RAP Alternative 6, Source Removal with Offsite Disposal, was also chosen for evaluation in this HRA. Under this Alternative, waste materials would be removed, and the Site would be excavated as needed and backfilled with suitable import materials to street grade. Thus, no cap would be constructed. Details are provided in the Draft RAP and summarized below following the discussion of Site features.

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[1] *Geosyntec, Groundwater Remedial Investigation Report (Revision 1.0)–June 14, 2007.*

[2] *ENVIRON International Corporation (Environ), 2000, Feasibility Study Report, prepared for California/Nevada Developments, LLC., November 2000. Approved by DTSC July 2001.*

[3] *Project Navigator, Ltd., 2007, Revised Feasibility Study, September 21, 2007.*

1.4 SITE FEATURES

Five visible impoundments, referred to as Lagoons 1 through 5, are present at the Site as well as one covered pit (Pit F), and seven former pits (Pits A through E, G, and H) and lagoon areas that are no longer visible. Wastes contained at the Site were placed directly upon the native soil, and on-site soil was used to form berms resulting in the lagoons. As waste material accumulated, the berms were raised such that much of the Site is now approximately 10 to 20 feet above the surrounding street level. The outside slopes of the perimeter berm are covered with grasses, shrubs, and scattered small trees. Currently, elevation ranges from approximately five feet above mean sea level (MSL) at the southeastern corner to approximately 25 feet above MSL near the center of the Site. The surface topography of adjacent properties is generally flat with elevations ranging from 5 to 10 feet above MSL. The Site is comprised of two primary parcels: the Cannery Hamilton Properties, LLC (CHP) parcel and the City parcel. The CHP parcel is that portion of the Site currently owned by CHP. The CHP parcel is the entire Site except for an approximately 30-foot wide margin along the northern edge of the Site along Hamilton Avenue and an approximately 20-foot wide margin along the eastern edge of the Site along Magnolia Street. Collectively, these two margin areas comprise the City parcel (refer to **Figure 2**, *Site Ownership*).

From 1984 to 2002, the Site remained relatively unchanged. Starting in 2002, the RPs undertook routine maintenance and housekeeping. In 2004, removal of oil production equipment and an oil well from an approximate two-acre oil production site on the eastern portion of the Site was performed. In 2005 through early 2006, an Emergency Action was undertaken that consisted of material removal, Site grading, and installation of best management practices for storm water control. The Emergency Action was conducted to strengthen earthen berms along the northern portion of the Site and to remove much of the waste from Lagoons 4 and 5. In 2010 through 2011, an Interim Removal Measure (IRM) was performed to remove most of the tarry materials contained in Lagoons 1 and 2 and partially remove the tarry materials from Lagoon 3 to enable assessment of materials underneath these lagoons. The remaining tarry material contained in the Lagoons was covered with Site soils. A summary of activities and ownership of the site is provided as **Figure 3**, *ASCON Site Timeline.*

It is estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately five to 25 feet. Soil and construction debris, consisting of wood, brick, concrete, and asphalt, were placed over much of the waste material and can currently be seen throughout the Site.

1.5 SUMMARY OF ALTERNATIVE 4

Alternative 4 would include excavation of impacted materials to approximate adjacent street elevation along an area parallel to Hamilton Avenue and Magnolia Street. Impacted materials on the City parcel would be excavated to a depth that would achieve the Risk Based Concentrations (RBCs), as presented in the RAP, which could be down to groundwater. For the CHP parcel, the excavation of Pit F, consisting of approximately 2,250 bank cubic yards (BCY, a measurement of volume with "in-the-ground" density), is planned to be performed under a temporary, enclosed structure that would be operated as a negative-pressure air enclosure of which the effluent would be treated using granular activated carbon (GAC) to capture emissions from the excavated waste prior to discharge to the atmosphere. Alternative 4 would remove Pits A through E, G and H and reconsolidate any waste onsite under an engineered cover, but the extent of removal would be determined in the final remedial design. A maximum of approximately 32,250 BCY of soil would be excavated and transported off-site. Alternative 4 would include excavation of the outer areas of the Site with reconsolidation of the excavated waste toward the Site interior. The waste would then

be covered through construction of a low-profile protective cap over the areas of the CHP parcel along Hamilton Avenue and Magnolia Street and a higher-profile cap over the southwestern portion of the Site. The protective cap would cover most of the current area of the CHP parcel with the exception of a perimeter road and two storm water detention basins. The capped areas could vary in elevation and size depending on the area and vertical extent of source removal along the east and north sides of the Site. A long-term groundwater monitoring program would be maintained, and the CHP parcel would be deed restricted to prevent inconsistent development and activities.

1.6 SUMMARY OF ALTERNATIVE 6

Under Alternative 6, all contaminated material would be excavated and transported off-site in order to return the Site to unrestricted use, such as allowing residential or school uses. The overall remediation process would involve excavating all waste and impacted soil down to a maximum depth of groundwater and backfilling with imported clean soil. Similar to Alternative 4, the excavation of Pit F, consisting of approximately 2,250 BCY is planned to be performed under a temporary, enclosed structure that would be operated as a negative-pressure air enclosure. It is estimated that a total of approximately one million BCY of waste and impacted soil would be excavated and disposed offsite as part of the final remedy solution. The excavation surface area would be limited to approximately 10,000 square feet of exposure to the atmosphere at any one time.

1.7 REMEDIATION SCHEDULE

Alternatives 4 and 6 would require several distinct phases and activities which have the potential to generate emissions of volatile organic compounds (VOCs) and fugitive dust. Phases of Alternatives 4 and 6 which may generate these emissions would be the primary focus of the emissions inventory. As mentioned previously, Alternatives 4 and 6 would differ based on the depth of excavation and the use of a cap for Alternative 4. Although these two alternatives would have a different end stage, the remediation activities required are similar. The following phases are presented in preliminary chronological order for Alternatives 4 and 6:

- Staging and Equipment Installation and On-site Haul Road Construction;
- Clearing and Grubbing – Remove vegetation;
- Pit F removal using a temporary structure with negative pressure environment;
- Installation of a support berm for Lagoons 4 and 5 along Hamilton Avenue and the northern portion of Magnolia Street (Alternative 4 Only);
    - Establish right-of-way along the northern and eastern boundaries
    - Install support berm
    - Remove portions of Lagoons 4 and 5
    - Removed waste and soil would be reconsolidated to Site interior
- Treatment cell for VOC-contaminated soils installed in Lagoons 1 and 2 (Alternative 4 Only);
    - Install plastic sheets with a connected blower
    - Install a GAC filter to scrub VOC emissions
- Concrete debris to be broken or crushed (under Alternative 4 may be placed as select deep fill or used as construction material);

- Cut, fill and consolidate waste soils until design subgrade (i.e., elevation immediately under the cap) is achieved;
- Fill to final grade;
- Excavate contaminated soil on parcel operated by South Coast Oil Corporation (SCOC parcel);
- Construct cap over site, with the exception of the SCOC parcel, perimeter roads, storm water detention basins, and remediated City of Huntington Beach parcel, including landfill gas collection and monitoring system, (Alternative 4 only);
- Install storm water controls; and
- Final site grading and seeding.

Figure 4, *Alternative 4 Remediation Phasing* and **Figure 5**, *Alternative 6 Remediation Phasing* provide the location of activities for each individual phase described above.

During active remediation, fugitive dust would be controlled to the greatest extent possible, and both fugitive dust and VOC emissions would be monitored on a regular basis. Fugitive dust would be controlled to comply with SCAQMD Rule 403 requirements. Such requirements include preventing visible dust plumes from drifting off-site, track out prevention devices (e.g., wheel washers, rumble strips), and watering exposed soil surfaces several times per day. In addition, the project would implement additional dust control/monitoring measures beyond Rule 403 requirements such as addition of dust suppressants and real-time wind monitoring. Additional details regarding fugitive dust and VOC control are provided in the Mitigation Measures (Section 6.0) below and in the RAP.

VOC emissions would be actively monitored during excavation of VOC-contaminated soils[4] as defined by SCAQMD Rule 1166. In compliance with SCAQMD Rule 1166, any excavated soils that emit >1,000 ppm VOCs would be reconsolidated to an approved soil treatment cell or placed in air-tight sealed bins within the quarter-hour and transported off-site within 30 days. Most Site soils for which excavation is anticipated are expected to emit <50 ppm VOCs. VOC emissions during excavation and stockpiling activities would also be controlled using water, Rusmar® foam, or similar foam, or other suppressant. Stockpiles would be covered with plastic sheeting and/or a suppressant and would be monitored for emissions. Additional details regarding VOC monitoring are provided in the RAP.

Under Alternative 4, once the reconsolidation activities are complete, a cap would be constructed over the site to prevent any remaining COPCs from migrating off-site. The CHP portion of the Site would ultimately consist of a final cover over the majority of the Site (the top cap sloped at 3 percent and the side slopes at a 3:1 run to rise ratio), a perimeter access road, and storm water detention basins. The CHP portion of the Site would be surrounded by a perimeter fence. After removal of materials in the City parcel to achieve the RBCs, the City parcel would be backfilled with clean soil to an elevation approximately equal to the existing adjacent roadways, and left in a state similar to the existing shoulder. See **Figure 6**, *Proposed Top of Final Cover – Plan View*. The top deck of the cap would consist of (from bottom to top) waste, an in-situ foundation layer, nonwoven geotextile gas collection layer, a geomembrane, a geosynthetic drainage layer, geonet biotic layer, and approximately 2 feet of imported cover soil which would be seeded with vegetation. Please see

[4] *VOC-contaminated material is defined by SCAQMD as excavated soil that measures greater than 50 ppm total VOCs as measured with an OVA (e.g., PID), within three inches of the excavated material within three minutes of excavation.*

Figure 7, *Proposed Final Cover Profiles*. In addition, an evapotranspirative (ET) cap would be installed on the side slopes., An ET cap is composed of four feet of soil which supports vegetation that transpires equivalent amounts of moisture as they receive through rain, thereby producing a water balance and minimizing water percolation to the waste. Alternative 6 would have clean fill imported instead of a cap. In addition, a long term groundwater monitoring program would be established as well as a storm water system to channel any runoff to the storm water drainage systems. Specific details for each phase of Alternatives 4 and 6 including truck trips, excavation quantities and equipment usage are provided below.

1.7.1 Staging and Equipment Installation and On-site Haul Road Construction

Work on the Site would begin with the establishment of a staging area with an office trailer(s), utility installation, and perimeter air monitoring equipment. Haul roads would be established and maintained throughout the project duration and would be used to bring in earthwork and supporting equipment (e.g., water tower, foam units). Minor grading may be required for the installation of utilities and the office trailer(s). Emissions generated during this stage are expected to be minor and would be generated primarily from unpaved surface travel and minor soil handling.

1.7.2 Clearing and Grubbing

The Site surface (non-road, non-lagoon) currently consists largely of vegetation and construction debris. Initial inspections of the Site documented quantities of construction debris such as concrete rubble, wood and other construction wastes. Previous subsurface investigations also documented construction debris buried below the ground (i.e., subsurface). Specifically, materials documented at the Site include broken concrete, large diameter concrete pipe, asphalt, brick, metal, plastic, wood, wire, and miscellaneous debris. Large concrete slabs and blocks were also found to be distributed widely throughout the Site. Removal of the vegetation, interior fencing, and construction debris would be required prior to any remediation activities. Green waste, fencing, and construction debris would be transported to offsite disposal facilities. Some concrete debris would be stockpiled for breaking or crushing during subsequent phases. This process is expected to take several weeks. Emissions generated during this stage would result primarily from unpaved road travel and soil handling.

1.7.3 Pit F Removal

Pit F materials would be excavated for transport and off-site disposal using a procedure that would minimize emissions. The Pit F area would be temporarily graded to a working elevation to establish a level working platform. Volatile emissions would be captured using a temporary enclosed structure (e.g., Sprung or similar), which would be constructed over Pit F. The structure would be operated as a negative-pressure air enclosure the effluent from which would be treated using GAC to capture emissions from the excavated waste prior to discharge to the atmosphere. The excavation of Pit F, consisting of approximately 2,250 BCY would be performed under the structure by slot cutting utilizing slurry trench technology. Using this technology, the trenches from which the Pit F materials are excavated would be filled with a slurry (i.e., a mixture of fine solids and liquids). The materials are excavated through the slurry, which minimizes the emissions from the waste and the inflow of groundwater to the submerged trench. The excavated trenches would then be backfilled with a nonhazardous mix of sand, cement, and water (i.e., “flowable fill”). The nonhazardous slurry would either be absorbed into adjacent soils or be disposed of with the excavated materials.

The Pit F materials would be loaded into sealed roll-off bins, or similar, and staged on-site. The staged bins would be transported to the disposal facility utilizing bin trucks and/or rail transportation. Excavation, loading of bins and backfilling would be performed under the negative-pressure structure. Upon completion of Pit F work, the Pit F area would consist of cured flowable fill from working grade to the depth needed to remove the pit materials, which is estimated at up to approximately 30 feet below working grade.

Emissions generated during this stage would be generated by Pit F material off-gassing during excavation, unpaved road travel, and minor soil handling during grading and trenching activities. However, the majority of removal activities would be performed within the enclosed structure under negative pressure. Emissions within the structure would be treated using GAC prior to release to the environment. Emissions calculations for this phase would take into account treatment efficiency of the GAC system.

1.7.4 Berm Reconstruction (Alternative 4)

An earthen berm, approximately 10 to 20 feet high, is currently in place around the northern and eastern perimeter of the Site to contain the lagoons. As part of the remediation process, the berm would be reconstructed using solidification agents (lime kiln dust or cement) and in-situ materials. Emissions generated during this stage would result from on-site truck travel, heavy equipment exhaust, solidification agents, and wind erosion.

Prior to commencement of grading activities in the northern portion of the Site in the area near Lagoons 4 and 5, portions of the contents of Lagoons 4 and 5 would be retained with a support system to enable grading and excavation of other portions of those lagoons. The support system would utilize a berm that would be constructed inside the lagoons and would act to retain the material left in place in Lagoons 4 and 5. The berm would be constructed by mixing lagoon material in the location of the berm with solidification agents (e.g., cement) that would be left in place under the cap as part of the final remedy. After construction of the berm, this Phase would continue with the excavation of Lagoon 4 and 5 materials located to the north and east of the berm. A diagram of this support berm is provided as **Figure 8**, *Alternative 4 Support Berm*.

1.7.5 Lagoon 4 and 5 Removal and Remediation (Alternative 4)

During Alternative 4, excavated material from Lagoons 4 and 5 that is designated as VOC-contaminated per SCAQMD Rule 1166 (i.e., $\geq$50 ppm VOCs) would be treated and retained on-site in an emissions control cell to be located in the Lagoon 1-2 area. Other excavated and graded materials (non-VOC contaminated materials) may be stockpiled on-site and would be used as fill to achieve subgrade. Other materials could be stockpiled for removal/disposal as part of the potential 30,000 BCY removal for Alternative 4. Treatment of VOC-contaminated materials would be performed by placement of the material in windrows in the treatment cell (i.e., emissions control cell) in the Lagoon 1 and 2 area and covered with vapor collection piping and plastic sheeting. Emissions collected from these materials would be transported through the piping using a blower and treated with GAC prior to discharge to the atmosphere.

Emissions analyzed during this phase would include those generated by soil excavation and handling, on-site truck travel, heavy equipment exhaust, stockpile off-gassing, haul truck loading, and emissions from the negative pressure treatment cell.

1.7.6 Excavate and Export Up To an Additional 30,000 BCY (Alternative 4)

Under Alternative 4, a maximum of 32,250 cubic yards of waste would be excavated and transported off-site. During excavation and removal of Lagoon 4 and 5, soil located at the remaining portions of the Site would be cut and filled to achieve subgrade. Concurrently with the cut and fill of existing material, some existing concrete debris and rubble would be consolidated and placed on-site as select deep fill. Some concrete debris may be broken and/or crushed with a breaker attachment on an excavator or concrete crusher, as needed. As the cut and fill phase to achieve final subgrade is nearing completion, construction of the cover system would begin. Construction of the cover system may also begin before the sub grade is completed in other areas of the site.

As subgrade is achieved in portions of the cut and fill area, it may be possible that portions of the cover system (i.e., cap) would be constructed while soil is exported. Although it is unlikely that soil export and cap construction would occur simultaneously, this scenario was analyzed as a worst-case assumption. The cap construction would include the installation of the geocomposite gas collection layer and associated piping, as well as the import, placement, and compaction of cover material. Bottom dump/belly dump trucks would be used up to 10 hours per workday to import approximately 240,012 BCY of cover materials over a period of 102 workdays, with a delivery rate of up to 200 trucks per workday. The cover materials would be graded to final grade. The cover system would not be constructed over the City Parcel, the Site perimeter access road, the storm water detention basins, or the SCOC property, although these areas could receive imported soils, as needed, to fill any excavations to final grade.

Cover material (clean fill soil) would be selected from an appropriate site where possible such as non-industrial sites and sites which do not have a history of contamination. Documentation would be provided to determine if the fill source is appropriate, which would include history and location of the fill source area. Furthermore, chemical analysis would be performed on fill as recommended by DTSC.[5] A diagram of cut and fill depths for Alternative 4 are provided as **Figure 9**, *ASCON Excavation/Infill Depths.*

Emissions analyzed during this phase would include those generated by soil excavation and handling, on-site truck travel, heavy equipment exhaust, stockpile off-gassing, haul truck loading and concrete crushing.

1.7.7 Excavate and Export Approximately One Million BCY (Alternative 6)

Under Alternative 6, all waste and contaminated soil would be excavated and transported off-site in order to return the site to unrestricted use. The overall remediation process involves excavating all contaminated soil and drilling mud materials to be transported offsite then backfilling to final grade with clean fill. It is estimated that approximately one million BCY of waste and contaminated soil would be excavated and disposed off-site as part of this alternative. Under Alternative 6, materials from Lagoons 3, 4 and 5 would be excavated and placed in a stockpile for loading into trucks for transport offsite. Stockpiled material would be monitored for VOCs and covered with a suppressant as necessary. Once lagoon materials are removed from the site, the entire site would be excavated in four separate phases (north, south, east, and west). These four excavation phasing areas are shown in **Figure 5**, *Alternative 6 Remediation Phasing*. Preparation of the site would be similar to Alternative 4 in which clearing and grubbing of vegetation, and stockpiling or export of concrete debris would be performed prior to excavation. Once site preparation activities are complete, each

[5] *Information Advisory Clean Imported Fill Material. Department of Toxic Substances Control. October 2001 .(http://www.dtsc.ca.gov/Schools/upload/SMP_FS_Cleanfill-Schools.pdf)*

phase would be excavated and backfilled with clean fill or crushed rock. Similar to Alternative 4, clean fill material would be selected from an appropriate site with documentation and chemical analysis.

Emissions analyzed during this phase would include those generated by soil excavation and handling, on-site truck travel, heavy equipment exhaust, stockpile off-gassing, and haul truck loading.

1.7.8 Cap Construction (Alternative 4)

Alternative 4 would not require removal of all tarry or contaminated materials. Emissions generated during the reconsolidation stage would include those from unpaved road travel, soil stockpiling, equipment emissions, and wind erosion. Cap construction would be accomplished using a geomembrane cap. The geomembrane cap shown in **Figure 7**, *Proposed Final Cover Profiles*, includes a vegetated soil cover and a number of additional layers below the surface cover. Emissions generated during the cap construction would include those from unpaved road travel, equipment emissions, import truck exhaust, and wind erosion; however, any generated dust would consist of import soils and thereby not contain Site COPCs.

1.7.9 Final Site Grading and Seeding

Final site grading would not require removal of tarry or contaminated materials. Uncontaminated soils on-site or imported fill would be used to balance the site. Additional soil would be imported in order to bring the project to design grade. Emissions generated during this stage would include those from unpaved road travel, soil stockpiling, import truck exhaust, and wind erosion. Again, any dust generated would consist of import soils and thereby not contain Site COPCs

2.0 REGULATORY BACKGROUND

The assessment and dispersion modeling methodologies used in the preparation of this HRA were composed of relevant and appropriate procedures presented by the U.S. Environmental Protection Agency (USEPA), California Environmental Protection Agency (Cal/EPA), DTSC, and the South Coast Air Quality Management District (SCAQMD). The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified health risk impacts associated with the generation of toxic air contaminant (TAC) emissions from stationary and mobile sources. This report summarizes the protocol used to evaluate the health risks and presents the results of the HRA.

2.1 RISK ASSESSMENT GUIDELINES

The health risk calculation methodology is based on the Office of Environmental Health Hazard Assessment (OEHHA) *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* ("OEHHA Guidance").[6] OEHHA does not promulgate environmental regulations directly; however, it is responsible for developing and providing toxicological and medical information relevant to decisions involving public health to agencies, such as Cal/EPA.

The four basic processes to complete in performing a risk assessment are as follows and each is explained in detail below:[1]

- Hazard Identification,
- Dose-Response,
- Exposure Assessment, and
- Risk Characterization.

Hazard Identification. A risk assessment must first seek to identify if the process involves possible exposure to a substance which is known or suspected to cause an undesirable outcome. Examples of environmental hazards include acute or chronic non-cancer adverse health effects, (e.g. infertility and birth defects) and cancer

Dose-Response. In order to evaluate the potential adverse effects associated with exposure to chemicals, the relationship between the dose of each chemical and the probability of an adverse health effect in an exposed population must be determined. This is known as the dose-response assessment and is based on data collected from animal studies and theoretical precepts about what might occur in humans. A human HRA can consider both the carcinogenic and non-carcinogenic health effects associated with chemicals based on dose-response criteria published by various regulatory and health agencies.

Exposure Assessment. In this step, the risk assessment strives to calculate the extent of the possible exposure. Exposure assessments consider both the spatial and temporal nature of possible release and

[6] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003).*

exposure scenarios. A refined risk assessment may consider release parameters such as the amount of the toxic substance spilled or released (pounds, gallons) and its physical characteristics (pressure, temperature, phase), the duration of the release (seconds, hours, continuous), the frequency of the release (one discreet event, once per day, continuously), the means of release to the atmosphere, and the methods and efficacy of control measures to minimize the release. In addition, the HRA must consider the distance between the receptor and source, frequency and duration of the exposure, attenuation of the released substance, physical characteristics of the exposed population, etc. Exposure concentrations can be estimated using screening techniques or predicted using refined dispersion modeling (for inhalation pathways) analyses which take into account wind speed and direction, temperature, atmospheric pressure, and the influence of intervening buildings and topography. Other modeling techniques, are available to predict exposure by other means, such as transport through water, volatilization from soil, ingestion via drinking water, root uptake in crops, and bioaccumulation in fish and livestock. This step is also commonly referred to as "fate and transport."

Risk Characterization. Risk characterization is the final step in the risk quantification process, combining the toxicity assessment and estimated exposure to the chemical fate and transport concentrations. The risk values contained in HRAs typically reflect an estimated upper limit of the increased risk of the negative health outcome occurring under the exposure scenarios evaluated. The OEHHA Guidance recommends that a 70-year exposure duration be used for determining lifetime residential cancer risks (exposure for 7 days per week, 50 weeks per year). This ensures that a person residing in the vicinity of a facility for a lifetime would be included in the evaluation of risk posed by that facility. The OEHHA Guidance also provides exposure durations less than the 70-year lifetime to assess exposure to workplace and other receptors. Risk characterizations for employees assume exposures of 40-years.[7] For non-cancer risks, the evaluation period can vary from one hour to one year or more, depending on the exposure frequency and duration.

The SCAQMD provides modeling guidance for the *AMS/EPA Regulatory Model* (AERMOD) model, which is a steady-state Gaussian plume model.[8] The guidance provides recommended modeling options for projects located in the South Coast Air Basin. The options consist of recommendations for parameters such as meteorological data, urban dispersion, receptor heights, and receptor grids. These parameters are discussed in detail later in the next section. As discussed, the modeling options utilized for the project are consistent with the SCAQMD guidance.

The California Air Resources Board (CARB) provides modeling guidance for the *Hotspots Analysis Reporting Program* (HARP).[9] The HARP model is a computer software package that assists with an HRA analysis. The HARP model can perform atmospheric dispersion analyses using screening or representative meteorology, calculate cancer and non-cancer (acute and chronic) health impacts using the OEHHA Guidance; use point estimates or data distributions of exposures to calculate inhalation and multi-pathway risks; perform stochastic health risk analyses; calculate potential health effects for individual receptors; calculate population exposures; calculate cumulative impacts for one or multiple facilities and one or multiple pollutants; and calculate potential health effects using a ground level concentration. The health risk calculation methodology contained in HARP is consistent with the OEHHA *Air Toxics Hot Spots Program*

[7] *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Office of Environmental Health and Hazard Assessment. August 2003.*

[8] *South Coast Air Quality Management District, "AQMD Modeling Guidance for AERMOD," http://www.aqmd.gov/smog/metdata/AERMOD_ModelingGuidance.html. Accessed April 2013.*

[9] *California Air Resources Board, "Hotspots Analysis Reporting Program Documents," http://www.arb.ca.gov/toxics/harp/docs.htm. Accessed April 2013.*

Guidance Manual for Preparation of Health Risk Assessments.[10] The *HARP User Guide* provides instructions on using the modeling software. The HARP Model was used for this risk assessment in accordance with the *HARP User Guide*.

2.2 THRESHOLDS OF SIGNIFICANCE

The DTSC has established thresholds of significance for COPC emissions during implementation of the RAP conditions. The threshold for carcinogenic impacts is based on an incremental increase in risk expressed as the number of estimated additional cancers in a population of one million individuals exposed over a 70-year lifetime (incremental cancer risk). Based on DTSC guidance, a significant impact would occur if implementation of the RAP would result in greater than a 1.0 in one million (1.0×10^{-6}) incremental cancer risk at the maximally exposed individual (MEI).

The thresholds for acute and chronic non-carcinogenic impacts are based on TAC concentrations in excess of the reference exposure level (REL). The REL is the concentration at or below which no adverse health effects are anticipated. The Hazard Index (HI) is the ratio of the TAC concentration and the REL. Thus, a significant impact would occur if implementation of the RAP would result in a chronic or acute HI greater than or equal to 1.0.

In addition, chemical sampling of soil on-site has identified lead at several locations throughout the Site. Lead exposure is a concern during fetal and child development, especially during the development of the nervous system. In 2007, CalEPA's Office of Environmental Health Hazard Assessment (OEHHA) developed a threshold concentration of 1 microgram lead per deciliter (µg/dL) of blood as the incremental increase in children's blood lead that would reduce IQ by up to 1 point. Thus, a significant impact would occur if emissions from the RAP result in an increase in estimated blood lead concentrations exceeding 1 ug/dL at the maximum impacted residential receptor.

[10] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003).*

3.0 METHODOLOGY

The risk assessment was performed in three major sequential steps: (1) emissions inventory formatting; (2) dispersion modeling; and (3) health risk calculations. The emissions inventory was formatted for input into the HARP software. The HARP software requires emissions to be input in terms of pounds per year for calculation of chronic and cancer risk and pounds per hour for acute risk. The dispersion modeling is performed by assigning sources to a location on the project site and selecting appropriate receptors. Sources for dispersion modeling include items such as on-site haul roads, Pit F excavation, stockpile loading areas and other remediation activities on-site. Risk calculations are performed using the HARP software described above which contains toxicity values based on the OEHHA toxicity database. Chemicals which are not contained in the OEHHA database were analyzed separately.

3.1 CHEMICALS OF POTENTIAL CONCERN

This refined HRA includes a quantitative evaluation of all Chemicals of Potential Concern (COPCs). COPCs for a site, in the most comprehensive form, include all chemicals detected at a site present at levels significantly elevated from background or naturally occurring levels, chemicals only tentatively identified at the site but associated with the site by historical information, and transformation products of chemicals demonstrated to be present at the site. In many cases, this list of COPCs may be lengthy, as is the case with the Ascon Landfill Site. All electronically available data collected at the Site were considered for this risk analysis; these included data dating back to 1979. The Data Availability discussion below provides a history of data collected at the Site that were considered for risk evaluation.

3.1.1 Data Availability

Many investigations have been performed for the Site dating back to the 1960s. The landfill accepted oilfield and other wastes until 1971, which included waste such as drilling mud, chromic acid, styrene, slag and fuel oils. Inert solid materials were disposed of at the Site from 1971 until 1984, when all disposal activities officially ceased.

After the Site ceased all waste disposal operations in 1984, studies were performed to characterize the waste contained onsite. Results of the 1997 RI (Revision 1) were used to prepare the 1997 BHRA, which summarized investigations prior to 1997.

Characterization of the surface materials, subsurface wastes, soils, air, soil vapors, background soils, groundwater, and surface water was performed, and the results were compiled into various reports, of which the following were incorporated into the RI report by Environmental Science & Engineering, Inc. (ESE) in 1997:

- Subsurface Exploration and Monitoring Well Installation at the Proposed Ryan Waste to Energy Plant Site, Woodward-Clyde Consultants, 1983.
- Final Site Characterization Plan, Lockman & Associates, 1984.
- Remedial Action/Mitigation Plan, Bright & Associates, 1985.

- Volume 1 and Appendices A through J, Final Site Characterization Report for Ascon Site, December, Radian Corporation, 1988.
- Final Site Soils Report, H.V. Lawmaster, 1988.
- Draft Hydrogeological Assessment Report, June 20, ISCO industries/ITARA Engineers, 1991.
- Draft Hydrogeological Assessment Report, June 20, ISCO Industries, 1991.
- Draft Remedial Investigation Report, May 11, ISCO industries/ITARA Engineers, 1992.

The analytical data from the 1997 RI were compiled into a database that consisted of approximately 20,000 individual entries including soil data, soil gas, flux and groundwater data which were incorporated into the 1997 BHRA. Following completion of the 1997 BHRA and the RI/FS and RAP, the prior owners of the Site had no further involvement with the Site until they relinquished ownership in 2003.

Since the 1997 RI and BHRA, data collection continued. The two largest contributors to the database are Technical Memorandum No. 1 Report of Findings (TM1ROF) and Pilot Study No. 3, Waste Characterization, Emissions, and Excavation Testing Program (reported in the RFS) prepared by Project Navigator, Ltd., in 2003 and 2007, respectively. During the TM1ROF program, multiple borings and wells were drilled into former lagoon areas to identify fill, waste and liquid conditions of the Site. Data collected from the TM1ROF resulted in approximately 15,000 additional entries consisting of soil, air and groundwater data. Soil gas data were not collected during TM1ROF.

In 2004, Pilot study No. 3 was performed to collect data to provide better classification of waste materials and to estimate emissions potential. Pilot Study No. 3 consisted of nine phases including sampling in former and current lagoon areas and individual pits, geotechnical assessment, Pit F offsite investigation, and treatability testing. Data collected from this effort resulted in approximately 48,000 individual entries consisting of soil, soil gas, flux, air and groundwater data. In 2006, a study was conducted to assess soil vapor in the northwest corner of the Site.

Data collected from the 1997 RI (1997 BHRA), TM1ROF, Pilot Study No. 3, and the 2006 soil vapor investigation were the latest available soil and soil gas data for the Site at the time of the RFS. The combined data from these studies represents over 80,000 individual data points for further analysis. It should be noted that these data points, in addition to soil and soil gas data, include groundwater, flux, and air monitoring data.

In 2007, as an addendum to the Remedial Investigation, a study was conducted to assess soils in select areas of the Site where oil leases are or had been active[11], resulting in an additional approximately 18,000 database entries. In 2011, an additional study was conducted to assess soils at the toe of the Site perimeter berms along Hamilton Avenue and Magnolia Street, resulting in an additional approximately 5,000 database entries. Collectively, these additional studies resulted in a database with over 62,000 entries for soil alone. A listing of recent studies and reports that have been conducted since the 1997 RI is identified below:

[11] *These oil lease areas of the Site include the SCOC and the Ascon Properties areas along the western Site perimeter of the Site, and the Well No. 80 area at the eastern Site perimeter.*

Air Quality:

- Re-Evaluation of Air Pathway Analysis/Revised Air Pathway Risk Assessment, Geosyntec, 2002
- Report – Ambient Air Quality Evaluation, Geosyntec, 2002
- Perimeter Air Sampling Reports, Geosyntec, July 2003 and October 2003
- Report of Findings, Perimeter Air Sampling Program, Geosyntec, 2004
- Revised Feasibility Study, Project Navigator, Ltd., 2007

Groundwater Assessment:

- Groundwater Assessment Report of Findings and Recommendations ("GARFR"), Project Navigator, Ltd., 2002
- Tidal Study and Well Gauging Results Letter Report, Geosyntec, 2003
- Groundwater Remedial Investigation Report and Groundwater Remedial Investigation Report – Revision 1, Geosyntec, 2005, 2007
- Supplementary Groundwater Investigation in the Pit F Area Report, Geosyntec, July 13, 2006
- Interim Groundwater Monitoring Reports – Semi-annual events between September 2007 through March 2012, Geosyntec, November 2007 - May 2012 (It should be noted that periodic monitoring continues, but this HRA relied on data through May 2012 only.)
- Revised Feasibility Study, Project Navigator, Ltd., 2007

Soil Vapor:

- Supplemental Soil Vapor Investigation Report, Geosyntec, 2006
- Soil Vapor Technical Memorandum, Project Navigator, 2006
- Revised Feasibility Study, Project Navigator, Ltd., 2007

Waste Materials Characterization:

- Waste Materials Characterization Report of Findings ("WMCROF"), Project Navigator, 2002
- Technical Memorandum No. 1 Report of Findings ("TM1ROF"), Project Navigator, February 2003.
- Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program Workplan, Project Navigators, 2004
- Phase IV Workplan Addendum (Lagoon Sampling Program) to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- Phase V/VI Workplan Addendum (Pits A, B, C, D, E, G, and H, Former Lagoon Areas and Berm Sampling Programs) to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- Phase VIII Workplan Addendum (Pit F Sampling Program) to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004

- Pit F Offsite Investigation Workplan Addendum to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- Pit F Data Package to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- Data Package to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- Revised Feasibility Study, Project Navigator, Ltd., 2007 (includes findings from Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program)
- Phase IX Workplan Addendum (Treatability Testing Program) to Pilot Study No. 3 Waste Characterization, Emissions and Excavation Testing Program, Project Navigator, 2004
- SCOC Area, Ascon Properties Area, and Well 80 Area Investigation Report – Addendum for the Site Remedial Investigation, Project Navigator, 2008
- Fence Line Investigation Report, Geosyntec , 2011

During the IRM, completed in 2011, air samples were collected as part of the IRM Air Monitoring Plan (AMP), which consisted of real-time monitoring, meteorological monitoring, SUMMA canister and high-volume samples, and South Coast Air Quality Management District Rule 1150/1166 monitoring. Air monitoring conducted during the IRM included perimeter samples and an on-site meteorological station to collect wind speed and direction. Perimeter air monitoring data collected during the IRM included a few periods in which low levels of VOCs were detected, as well as many periods in which the same and other VOCs were not detected. Since it is logistically difficult to measure consistently low levels of VOCs over a prolonged period, risk assessments rarely use this type of data to quantitatively assess health risks from source emissions. Instead, subsurface diffusion and dispersion modeling of VOCs into ambient air was modeled using VOCs identified in the soil matrix.

3.1.2 Soil Gas Data

Soil gas investigations were performed in 1988, 1997, 2004, and 2006, to determine if volatile components were migrating off site and/or had the potential to enter buildings through indoor air intrusion. As mentioned previously, soil gas data were presented in the 1997 RI (1997 BHRA), were part of Pilot Study No. 3, and were also collected in 2006. Soil gas data contained in the 1997 RI were generated from samples collected in 1988 and 1997, while soil gas data in Pilot Study No. 3 were generated from samples collected in 2004. The 1988 soil gas data were results from five samples and one duplicate, two collected from both the NW and the SE corners of the Site and one from Lagoon 2. Results from these samples indicated the presence of hydrocarbons. The 1997 soil gas samples were all collected either offsite or at the Site perimeter and only detected methane. In 2006, a supplemental soil vapor investigation was performed by Geosyntec and Project Navigator to assess soil vapor along the northwestern perimeter of the Site. Soil gas data presented in the 1997 RI and Pilot Study No. 3 represent approximately 1,400 individual records.

Soil gas samples were collected at the Site over a wide range of years, from 1988 to 2006 resulting in four distinct datasets (1988, 1997, 2004, and 2006). Ideally, DTSC recommends that HRAs consider soil gas data collected not more than 2-4 years prior to performance of the HRA, because VOCs are susceptible to chemical

and biological degradation, as well as depletion by diffusion.[12] Thus, older soil gas data may not be representative of existing concentrations. If soil gas data older than 4 years are associated with high risk, then it may be appropriate to collect new samples. If this is not an option, older soil gas data may be used with qualifiers or notes.

The 1988 and 1997 soil gas investigations were determined to be too old and may not be appropriate to characterize existing conditions. Thus the 1988 and 1997 data were excluded from further analysis. Data collected from the 2004 and 2006 sampling were included in the analysis as a conservative approach.

The 2004 and 2006 datasets provide limited soil gas data for the Site both in terms of the number of samples and locations. The 2004 soil gas sampling was performed under the western portion of Magnolia Street outside the Site's eastern perimeter, while the 2006 soil gas sampling was performed in the northwestern corner of the Site, approximately five feet inside the Site perimeter. As a result, the soil gas sampling locations do not represent impacted materials in the interior of the Site. As soil gas data for the Site are limited in terms of availability and sample location, these data are not considered representative of site-wide conditions. Therefore, the 2004 and 2006 soil gas datasets were only used as a supplement to VOC emissions to ambient air that were estimated using soil VOC data, and only the VOC emissions from soil were used quantitatively in the HRA. Details regarding VOC emissions from soil including volatilization and dispersion are provided in more detail later in the document.

3.1.3 Chemical Screening Methodology

Data from soils that would likely be disturbed and soils that would remain in place during Alternative 4 were further screened to determine which of these data are useful for risk assessment. Soil gas data from the 2004 and 2006 datasets, as discussed above, were screened for useful data and used in the analysis as a supplement to the soil data. These data screening processes are described in detail below.

The HRA focused on the potential for two alternatives, Alternative 4 and Alternative 6, to release on-site contaminants during remediation. Alternative 4 would consist of some removal of waste materials, but primarily focus on reconsolidating waste materials on-site and capping in-place. Waste materials would be excavated from the edges of the Site, including the City parcel, and be reconsolidated to within the limits of the CHP parcel. Site materials already found within the property line would be graded to accommodate the final cover system construction and provide for positive drainage. A protective cover, that would include a layer of imported soils and a vapor collection layer, would be constructed to minimize exposure to waste. Alternative 6 would consist of excavation of all Ascon-related waste materials and impacted soils and disposal of these materials at appropriate offsite facilities. The excavation would then be backfilled with imported soils to attain the designed finish grade elevation.

As described previously, Alternative 6 would include removal of all waste and contaminated soil, approximately one million BCY, which could potentially release soil contaminants to the atmosphere. Alternative 4, however, would include excavation of an approximate maximum of 32,250 BCY of material, with the remaining consolidated materials under an engineered, protective cap. During the remedy construction, the potential for release of COPCs as dust and vapors would be much less under Alternative 4

[12] *Department of Toxic Substances Control, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, October 2011.*

than it would be under Alternative 6 because of the differences in mass of soil to be removed or graded. After the remedy is complete, the Alternative 4 engineered cap and vapor collection system would minimize the potential for release of chemicals remaining onsite.

Both Alternatives 4 and 6 would require excavation of Pit F, which is located in the southeastern portion of the Site. Excavation of Pit F is planned to be performed under a temporary structure that would be operated as a negative-pressure air enclosure whose effluent would be treated using GAC to capture emissions from the excavated waste prior to discharge to the atmosphere. Since the potential for emissions from Pit F would be highly controlled and may contain a different mix of COPCs, analytical data for waste contained in Pit F are used separately in the HRA from the data from the remainder of the Site. Data tables and reports presented for this HRA are categorized into Pit F and Non-Pit F data as appropriate. Soil gas samples that were used in the analysis (2004 and 2006 datasets) were not collected within Pit F. Therefore, soil gas data were not separated into Pit F and Non-Pit F data.

Table 1, *All Chemicals (Soil)*, provides a summary of the chemicals and their detection frequency as indicated through soil sampling, including chemicals never detected. These samples were collected from only those materials that currently remain on-site. **Table 2**, *All Chemicals (Soil Gas)*, presents a list of chemicals and detection frequency in soil gas samples collected during the 2004 and 2006 sampling events. As discussed previously, 1988 and 1997 soil gas sampling data were not considered useful for further analysis, and therefore **Table 2** excludes these soil gas data, as well as data from analyses for chemical mixtures such as diesel and gasoline organics because, as result of the fact that reported concentrations for chemical mixtures combine many individual and indistinguishable components, such data are not useful for health risk analysis. Instead, individual components of gasoline, such as benzene, toluene, ethylbenzene and xylenes (BTEX), and diesel, such as naphthalene, that were detected in either soil or soil gas are shown in **Tables 1 and 2**. Analytical results derived from soils that have since been excavated and disposed of offsite, and thus are no longer present on-site, are also excluded from **Tables 1 and 2**. Details regarding how these data were identified are provided in the following sections along with details of how other data were removed from the database.

Preliminary Data Organization

Several steps were used to refine the list of COPCs and to determine appropriate chemical concentrations for those chemicals with the potential for release during either the proposed Alternative 4 or Alternative 6 remedial activities. The overall soil COPC screening process is documented as **Figure 10** *ASCON Soil COPC Screening Flow Chart*, which includes the preliminary data cleanup process and subsequent screening steps. The soil gas screening process is documented as **Figure 11**, *ASCON Soil Gas COPC Screening Flow Chart*. Preliminary data cleanup required removal of duplicate sample results and composite sample results; removal of sample results derived from soils that have since been excavated and removed from the Site; removal of non-volatile COPC sample results from the COPC soils data set for those soils that would remain in place during Alternative 4 remedial activities; and exclusion of chemicals from COPC soils and soil gas data sets where all analytical results were non-detect. The following discussion presents details of the preliminary data cleanup process that applies to both soil and soil gas datasets.

Duplicate Samples and Composites

Sampling data for the project site were compiled into a database that contained site reports dating back to the 1980s. In some instances, sample documentation in these earlier reports was incomplete. For example,

occasional double entries were noted, and disparate results for the same samples occurred without any explanation. In addition, the database includes instances where multiple concentrations were reported for the same sample for select chemicals due to the use of multiple analytical methods. Some samples were tested multiple times using the same test, presumably to check the quality of the testing or the validity of the result. Because multiple data records for the same sample collection point could bias the data, preliminary organization of the sampling data was performed to resolve these duplicate data issues. Where duplicate results, or a second test result for the same sample not clearly identified as duplicates, were identified, the higher detected result was selected as the COPC concentration for that sampling location. This is a conservative measure meant to be protective of public health.

Also, composite samples, from which the multiple sampling depths or any individual sampling depth were unknown, were identified in the database and removed from further analysis. This was due to the fact that the selection of COPCs depended on verifiable depth and to determine whether the soils associated with a sample would likely be disturbed during planned site activity. Since composite samples were obtained from a range of depths, one could not accurately determine the proportion of these samples (and associated soils) be disturbed. Therefore, composite samples were removed from the database.

Previously Removed Soil

Most samples of soils that have been removed from the Site were collected prior to the 2005-2006 Emergency Action, during which approximately 47,000 cubic yards of material were removed and disposed of at an appropriate landfill. In 2010-2011, as part of the IRM, approximately 70,000 cubic yards of materials from Lagoons 1, 2, and 3 were removed and disposed of at an appropriate landfill. Both the Emergency Action and the IRM resulted in changes in the Site topography and removal of waste and soils that had previously been sampled and analyzed. By evaluating the topographic changes made during the Emergency Action and IRM through aerial photography, radar mapping, and on-site measurements, and comparing the present topographic elevations to the elevations from which samples were taken, a number of sample records (approximately 28,000) contained in the database were identified as relating to materials that were removed from the Site during the Emergency Action or the IRM. However, because the margin of error in elevation measurements associated with the radar mapping was estimated as $\pm$1 foot, as a conservative step, post-IRM surface soils were assumed to be 1.5 feet higher in elevation than indicated in the radar maps. Thus, data from soil samples collected at or below this additional 1.5 feet elevation above the new surface were retained in the COPC database. Data from samples collected from soils at elevations higher than the 1.5 feet above the present surface were excluded from the COPC database and further analysis because that material has already been removed from the Site.

Determination of Depths of Excavated Soils Versus Soils Remaining In-Place (Alternative 4 Only)

For Alternative 4, a preliminary grading plan was developed that depicts the depth of soils that would be excavated or filled throughout the Site (**Figure 9**). In the COPC database, the sample elevation is determined by subtracting the sample depth from the surface elevation at the time of sampling. Comparing sample elevations with planned excavation or fill depths shown in **Figure 9** enables one to determine those samples corresponding to soils that would be disturbed during Alternative 4 and to soils that would remain undisturbed.

As a conservative measure, soils (and corresponding sampling data in the COPC database) located 2 feet below the estimated Alternative 4 waste excavation depths were considered to be subject to disturbance by

tires and treads of large excavation equipment potentially resulting in a release of contaminants into the atmosphere. Additional details on the use of a 2-foot buffer in database screening are described below.

Alternative 4 consists of partial removal of impacted materials, which means that some contamination would remain in place. Some of the materials that would be removed or disturbed during active remediation have the potential to release chemicals through fugitive dust and volatilization during soil handling. In the post-remedial state, Materials remaining in place would be covered with clean fill, provided with a landfill gas collection system and capped. Thus, the cap would minimize the release of fugitive dust and VOC emissions. As the number of chemicals detected and concentrations of detected chemicals differ with depth, two COPC lists were developed for this Alternative 4 active remediation HRA: one for materials to be excavated during the remedy and one for materials to remain in place. It was envisioned that the COPC list comprised of chemicals that would remain in place could also be evaluated in a future post-remediation HRA.

Areas shown in green tones in **Figure 9** are targeted to receive additional fill, and excavations are not anticipated within these areas. Therefore, the only activity that may disturb soils (and thereby potentially cause dust emissions) below these planned excavation depths is the movement of tires and tracks from heavy equipment. In consultation with experienced remedial contractors, it was estimated that the likely extent of this soil disturbance would not exceed a depth of 1-foot. As a conservative measure, it was assumed that surficial soils to a maximum depth of 2 feet could be disturbed by such activities. Thus, COPCs detected in soil samples collected within 2 feet of the planned excavation base, as well as in areas where excavation was not planned, were retained on the active remediation COPC list. Non-volatile COPCs detected in samples collected deeper than 2 feet below the planned excavation base were excluded from the active remediation COPC list because human exposure to them was unlikely. In contrast, VOCs detected below all depths of the excavation base were retained on the COPC list because these analytes could volatilize and diffuse through overlying soils, thus resulting in human exposure.

Plans to return the City parcel to the desired street grade and the removal of materials from Pit F were also evaluated during finalization of the COPC list. Samples taken from materials to be excavated (identified in brown tones within the specified depths on **Figure 9**) were retained in the database, along with samples from within the top two feet below the cut or fill elevations site-wide. As noted in **Figure 9**, Pit F will be excavated (and properly disposed of offsite). The Pit F and the surrounding area will be filled in with soil from other portions of the Site. The City parcel, located along the northern and eastern boundaries of the Site (i.e. parallel to Hamilton Avenue and Magnolia Street) will be excavated to approximate street level or deeper, as necessary, and excavated soils will be reconsolidated onsite (i.e., within green colored areas shown in **Figure 9**).

It was assumed that implementation of Alternative 4 would not disturb soils or waste located below the proposed excavation elevation minus 2 feet. Thus, non-volatile constituents from such samples were excluded from the active remediation COPC list, but were retained in the COPC list for remaining soils. These data could be considered in the future post-remedial HRA.

Thus, the preliminary database organization for the Alternative 4 HRA removed the following sampling records:

1. Double entered data

2. Composite samples

3. Samples previously removed from the Site; and

4. Undisturbed, non-volatile samples (i.e., below the lower of the current topography and the final excavation face minus 2 feet; such samples are applicable to Alternative 6 Active Remediation COPC list only)

Data from samples collected below excavation depths mentioned in point 4 above were not removed from the database, but were excluded from the Alternative 4 remediation COPC list. For the future post-remedy HRA, all data from soils that have been previously removed were excluded from the remaining soils COPC list. As described below and as shown in **Figures 10 and 11**, additional data screening was necessary as a part of this HRA to determine a suitable list of COPCs for statistical analysis in the HRA.

Determination of Soils to be Excavated and Soils to Remain In-Place (Alternative 6 Only)

During implementation of Alternative 6, all impacted materials are to be excavated, transported and disposed of off-site. Thus, no sample results were excluded from the Alternative 6 dataset. However, the database was processed for double entered data and composites as discussed above.

COPC List Screening

Prior to performing statistical analysis, sampling data for both soil and soil gas were further processed to ensure that useful test results were included in the analyses and that data were representative of on-site conditions. Criteria used to eliminate data that were not appropriate or useful from the COPC database included the following:

1. All records (i.e., rows in the database listing) of chemicals never detected at the Site;

2. Records of non-detected chemicals with detection limits greater than an established screening level;

3. Records of chemicals for which toxicity values or CAS numbers were unavailable and no reasonable surrogate toxicity values could be assigned; and,

4. Non-Volatile Chemicals for soils remaining in place (Alternative 4 only).

The above listed steps were performed in sequential order when screening for COPCs. The following discusses in greater detail the COPC identification and screening process.

Chemical Detection Frequency

Most laboratory analyses performed for the Site were based on standard USEPA methods that analyze for a variety of chemicals within each sample. Certain chemicals, however, were analyzed but never detected in any sample collected on-site. These chemicals were therefore removed from the database and excluded from the COPC list. A list of chemicals that were analyzed for from samples collected within potentially excavated areas, but not detected, are included in **Table 3**, *Alternative 4 – Chemicals Not Detected*, and **Table 4**, *Alternative 6 – Chemicals Not Detected*, for Alternatives 4 and 6, respectively.

Inclusion/Exclusion of Soil VOC Data and Non-Volatile COPC Data

Although the original, uncensored sampling dataset is identical for Alternatives 4 and 6, the main difference between **Tables 3 and 4** is the potential for disturbance of material. Alternative 4 would involve partial excavation of the Site with some sampled materials remaining in place, undisturbed. Non-volatile COPCs, corresponding to samples from soils which would not be disturbed during Alternative 4 remediation would not be considered in the analysis because they represent an incomplete exposure pathway. VOC emissions from all materials, regardless of the intent to excavate such materials during Alternative 4, would be evaluated because vapor emissions to soil gas accompanied by upward diffusion occur through both intact and disturbed soils. Thus, potential human exposure could occur during inhalation of VOC-impacted air. These data could also be considered in a future HRA following Alternative 4 construction. Alternative 6 would require full excavation that would potentially disturb essentially all of the previously sampled material currently remaining on-site. Therefore, all detected non-volatile and volatile COPCs would be considered in the risk analysis for the remediation phase of Alternative 6.

Elevated Detection Limits

The Ascon database of analytical test results dates back to the 1980's. Throughout this period, laboratory test methods have evolved, resulting in increasingly lower analytical detection limits. In addition, analyses performed by different laboratories were accompanied by varying quality control measures and abilities to deal with matrix interference. Increased matrix interference typically results in elevated detection limits. Similarly, soil screening levels (SSLs) for chemicals with the potential to cause adverse health effects have generally trended to lower concentrations due to an overall increase in understanding of the toxicities associated with these chemicals. To ensure that chemicals can be detected at or below concentrations that pose a significant health risk (i.e., USEPA Soil Screening Levels (SSLs)[13]), analytical detection limits (DLs) were compared with current SSLs. Where the DL exceeded the SSL and the chemical was not detected, these results were excluded from the database. Justification for this approach is that non-detect results for chemicals for which DLs exceed current SSLs could overestimate the average concentration of the chemical. The contribution to the distribution of data from these non-detect results with elevated DLs is uncertain, so one cannot accurately predict whether the UCL would be overestimated or have no effect.

In order to screen out samples with elevated detection limits, a screening level was established based on USEPA Regional Screening Levels,[14] DTSC regional background concentrations[15] (arsenic only), or California Human Health Screening Levels (CHHSLs; thallium only)[16], as appropriate. Details regarding exclusion of non-detected samples with detection limits greater than the screening level are provided in **Table 5**, *Alternative 4, Chemicals Not Detected + DL>SL*, and **Table 6**, *Alternative 6, Chemicals Not Detected + DL>SL*, for Alternatives 4 and 6, respectively. Review of soil gas data did not show any instances of elevated detection limits for non-detect samples. Therefore, no soil gas data records were removed due to elevated detection limits.

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[13] *USEPA Region IX, Regional Screening Levels (Formerly PRGs), May 2013. Available at: www.epa.gov/region9/superfund/prg/*

[14] *Ibid.*

[15] *Chernoff et al. Department of Toxic Substances Control, Determination of a Southern California Regional Background Arsenic Concentration in Soil, 2008.*

[16] *Office of Environmental Health Hazard Assessment, Soil Screening Numbers, http://oehha.ca.gov/risk/chhsltable.html. Accessed June 2013.*

Toxicity Value Availability and Surrogates

Not all detected chemicals have a toxicity value assigned by a regulatory agency. Detected chemicals were reviewed to determine if toxicity values were available from the OEHHA, the USEPA (IRIS, PPRTV, USEPA RSLs), or from the Agency for Toxic Substances and Disease Registry (ATSDR), generally in that order. Where appropriate, chemicals that were detected but did not have a toxicity value were assigned a surrogate with a toxicity value based on an assumed structure-activity relationship. A detailed listing of surrogate toxicity values is provided in **Table 7**, *Surrogates (Alternatives 4 and 6 and Soil Gas)*. Surrogate toxicity chemical structures and rationale for their use are shown in **Table 8**, *Reason for Surrogate Selection*.

Chemicals for which an appropriate surrogate could not be identified were excluded from further analysis. Several samples collected on-site included a number of chemical mixtures which had neither an appropriate toxicity value nor a CAS number. Health risks cannot be calculated for chemicals for which a toxicity value is unavailable. Therefore, these chemicals were also removed from further analysis. A detailed listing of excluded chemicals and the reason(s) for their exclusion is contained in **Table 9**, *Alternative 4 - Chemicals Excluded From Further Analysis (Non-Pit F)*, and **Table 10**, *Alternative 6 - Chemicals Excluded From Further Analysis (Non-Pit F)*, for Alternatives 4 and 6, respectively (non-Pit F Samples). **Table 11**, *Alternative 4 and 6 – Chemicals Excluded from Further Analysis (Pit F)*, presents Pit F samples excluded from further analysis. The remaining list of records of COPCs are regarded as the refined COPC data set (**Figures 10 and 11**). The refined data sets, summarized in **Table 12**, *Alternative 4 – COPC List (Non-Pit F)*, and **Table 13**, *Alternative 6 – COPC List (Non-Pit F)* for Alternatives 4 and 6, respectively (non-Pit F); **Table 14**, *Alternative 4 and 6 – COPC List (Pit F)*, were evaluated for potential health risks presented to nearby receptors during implementation of either Alternatives 4 or 6 remedies. Either remedy involves complete excavation of Pit F. Therefore, the COPC list for Pit F is identical for Alternative 4 and Alternative 6. Pit F data were presented in **Table 14**.

A detailed listing of excluded soil gas data is presented in **Table 15**, *Soil Gas - Chemicals Excluded from Further Analysis*, and the refined soil gas COPC dataset is presented as **Table 16**, *Soil Gas - COPC List*. Soil gas sampling data were screened using the same methods as the soil sampling data. Soil gas samples were screened and excluded for duplicates, non-detect values, or no toxicity value being available. It was assumed that all VOCs, regardless of depths in existing site soils, would volatilize to ambient air during either Alternative 4 or Alternative 6 excavations. Therefore, the soil gas data set is the same for Alternative 4 and 6.

Groundwater Monitoring Data

As mentioned previously, groundwater is currently monitored through an interim groundwater monitoring program. Samples are currently collected on a semi-annual basis from select wells generally located near the Site perimeter. Interim monitoring reports contain groundwater monitoring data from samples collected between 2001 and 2013. Other groundwater monitoring sampling data are included in the 2007 Groundwater Remedial Investigation Report Revision 1, which contains data ranging from 2002 to 2006.

During remediation activities, groundwater is generally expected to remain underground, although the potential for volatilization of groundwater VOCs to ambient air may be increased because the pathway for VOC attenuation by overlying soils may be reduced during site excavation. Non-VOCs are expected to remain in the groundwater with minimal chance of atmospheric release.

Within recent semi-annual groundwater monitoring events (i.e., between 2010-2012), the only groundwater samples to yield VOC detections were from three onsite monitoring wells identified as B-7, AW-8 and B-4A. Well B-7 is located adjacent to Pit F. AW-8 is located in the north-west corner of the Site, and B-4A is located west of Lagoons 1 and 2. Groundwater VOC concentrations in Well B-4A have indicated a general and consistent downward trend since 2006. Therefore, groundwater VOC concentrations were selected from the latest available monitoring events (3rd quarter 2011) as representative of this location.

As of the first quarter 2012, Groundwater VOCs detected in Well B-7 were also detected in Well B-4, but generally they occurred in higher concentrations in Well B-7. In addition, as Well B-7 is located closer to residential receptors to the east, this monitoring well was considered representative of Wells B4-A and B7. Well AW-8 contained a single VOC detection (1,4-dichlorobenzene) that were not identified in Well B-7 or B4-A. The USEPA identifies 1,3-dichlorobenzene as classification D, meaning not classifiable as to human carcinogenicity. In addition, non-cancer reference doses were unavailable for this compound. Hence, the health risk associated with potential inhalation of 1,3-dichlorobenzene could not be estimated. Therefore, only 1,4-dichlorbenzene was included on the groundwater VOC COPC list, along with those VOCs detected during the last three monitoring events in Well B7. A list of groundwater COPCs selected is presented in **Table 17**, *Groundwater - COPC List*.

COPC Methodology for Other Sources

Remediation activities at the Ascon Site would require the use of diesel powered construction equipment and trucks that would result in diesel particulate emissions. Diesel particulate matter (DPM) emissions were not applicable in the BHRA or RFS, but are included in the list of COPCs. The State of California has designated DPM as a TAC and regulates it as a carcinogen[17]; therefore, DPM resulting from diesel-driven equipment and on-site diesel vehicle emissions was included in the list of COPCs.

In addition to soil and other waste material, the Site contains concrete debris that may need to be reduced in size. If concrete pieces were to be crushed or broken on-site, there is a potential for release of crystalline silica during crushing activities. The USEPA has identified potential health issues related to the inhalation of crystalline silica through several studies.[18] Therefore, crystalline silica was included in the list of COPCs.

Chemical sampling of on-site soil has identified lead at several locations throughout the Site. Lead exposure is a concern during fetal and child development, especially during development of the nervous system. In 2007, OEHHA developed a threshold concentration of 1 microgram per deciliter (µg/dL) of blood as the incremental increase in children's blood lead that would reduce a child's intelligence quotient (IQ) by up to 1 point. Thus, lead emissions from implementation of the RAP was included in the list of COPCs.

[17] *Califorinia Air Resources Board, "Diesel Programs and Activities," http://www.arb.ca.gov/diesel/diesel.htm. Accessed November 2012.*

[18] *U.S. Environmental Protection Agency, Ambient Levels and Non-Cancer Health Effects of Inhaled Crystalline and Amorphous Silica, (November 1996).*

3.1.4 Conceptual Model of Exposure to COPCs

Conceptual Exposure Model in General

The Conceptual Exposure Model (CEM) provides the basis for a comprehensive evaluation of the risks to human health by identifying the mechanisms through which receptors may be exposed to COPCs. The CEM traces the Site COPCs from their sources through release mechanisms and exposure routes to the potentially affected receptors. COPCs may reach human receptors through various environmental media or combinations of media. Human health risk assessments therefore consider which pathways are available for COPC transport from source to receptor. Available pathways of human exposure are termed "complete" exposure pathways. The CEM synthesizes information on source-receptor, or exposure pathways and shows which pathways are complete. An exposure pathway consists of three related components: 1) a source of COPCs (often with a release mechanism specified); 2) a receptor; and 3) a route of exposure of the receptor to released COPCs.

A CEM was developed for the remedy (**Figure 12**, *Conceptual Exposure Model - Remediation Activities)*. Each of the three components of the exposure pathway is described in further detail below.

Sources of COPCs

Sources are localized concentrations of these substances. At sites that received waste, sources are generally lagoons, ponds, pools, pits, or bodies of water; drums or other containers; solid waste; or impacted soil, vegetation, or structures. Vehicles and equipment that burn diesel fuel, including trucks, bulldozers, and generators, are sources of DPM.

It is important to classify sources of COPCs into two major categories: sources that may be currently emitting COPCs on the Site without any remediation activity and sources that would emit COPCs as a result of disturbance resulting from remediation activities (e.g., excavation, concrete crushing, stockpiles, construction debris, and wind erosion).

The Ascon RAP includes excavation of tarry materials, excavation of chemically-impacted soils, concrete breaking and/or crushing, and soil stockpiling that may potentially release volatile COPCs into the environment. Fugitive dust containing metals and semi-volatile organic compounds (SVOCs) may be generated from mechanical disturbance (excavation, road dust) and wind erosion. Additional sources of chemical emissions include diesel-powered on- and off-road mobile sources such as haul trucks, bulldozers, loaders, backhoes, excavators, and water sprayer trucks that emit DPM. Finally, breaking of concrete deposited throughout the Site can potentially release fugitive dusts, possibly including silica.

Sources of COPCs that may be emitted from the Site without remediation activity potentially include volatilization of COPCs from soil and groundwater, as well as fugitive dust as a result of wind erosion. These sources would continue to emit volatile COPCs from undisturbed soils and non-volatile COPCs bound to dust particles from disturbed soils throughout the remediation phase, and though to a much lesser extent, if at all, after installation of the cap.

Receptor Types

With homes and Edison Park adjacent to the Site and Edison High School nearby, four types of receptors would be considered in this HRA:

- Resident: The nearest off-site residents are located along the east side of Magnolia Street, approximately 87 feet east of the Site;
- Student: The nearest off-site students are located at Edison High School, located in the northeast quadrant of Magnolia Street and Hamilton Avenue, approximately 300 feet northeast of the Site.
- Worker: Edison High School staff member, fire fighter, or industrial/commercial employee adjacent to the west of the Site, and
- Park visitor (recreator): The off-site recreator is envisioned to be a visitor to Edison Community Park, located directly north of the Site and across Hamilton Avenue, approximately 61 feet from the Site at the nearest point.

Health risks to on-site receptors (remediation workers) during the remediation process were not considered in the HRA. It is assumed that on-site remediation workers would comply with OSHA safety standards and practices applicable to work at the Site, including use of personal protective equipment and other elements of a health and safety plan prepared for the project. In addition, the general population would not be allowed to enter the Site; therefore, the HRA and CEM would be limited to off-site exposures.

Routes of Exposure

The USEPA defines exposure as the contact of an organism with a chemical or physical agent.[19] Chemicals potentially released from the Site during remediation ultimately contact and affect humans through distinct "routes of exposure," including inhalation, direct skin (dermal) contact and ingestion (oral exposure). Other exposure pathways that are subsets of the ingestion pathway include breast-milk consumption and water ingestion. The selection of applicable exposure pathways are based on the type of chemicals and method of environmental transport (air, water, soil).

In determining the routes of exposure for the remedial action, the "Risk Assessment Considerations" section (Section 4) of the 2007 RFS was consulted. This section of the RFS reviews prior relevant work, including HRAs, remedial investigations, and remedial action feasibility studies.

For this HRA, offsite exposure point concentrations (EPCs) were evaluated based on emission rates and detailed dispersion modeling using the USEPA AERMOD model or regulatory equivalent. Deposition, soil ingestion and dermal absorption would also be modeled based on the latest OEHHA guidance and default values. [20]

[19] *U.S. Environmental Protection Agency, Risk Assessment Guidance for Superfund (RAGS), Part A, p. 6-1.*

[20] *Office of Environmental Health and Hazard Assessment, Air Toxics Hot Spots Program Risk Assessment Guidelines: Revised Technical Support Document for Exposure Assessment and Stochastic analysis, (August 2012).*

Remediation Phase Exposure

During remedy construction, inhalation is the main exposure pathway of concern for volatile chemical vapors, while non-volatile chemicals bound to dust particles or diesel particulates can enter the body through inhalation, inadvertent ingestion and dermal exposure pathways. As a subset of the ingestion pathway, home-grown produce and mother's milk was also considered in the analysis consistent with SCAQMD recommended HRA guidelines.[21] Home grown produce (vegetables and fruit) have the potential to absorb pollutants deposited from project generated fugitive dust. Nursing mothers who are exposed to pollutants have the potential to transfer these pollutants to their milk during lactation. As a result, home-grown produce and mother's milk ingestion was considered for residential receptors.

VOCs present in groundwater may volatilize and migrate to the surface, potentially exposing receptors. Remediation activities such as removal of impacted soils may possibly expose groundwater, allowing for chemical volatilization into ambient air. Therefore, offsite exposure through inhalation to groundwater vapors, potentially released from within the Site, would be considered as part of the CEM for the remedy construction. There is no complete pathway for offsite exposures from offsite groundwater because there are no known offsite VOC impacts to groundwater.

Potential Post-Remedy Exposure

As mentioned previously, some impacted soil would be left in place but capped under Alternative 4. In addition, soils in the City parcel would be removed if above the RBCs. Although a cap would prevent release of contamination to the environment, an evaluation must be performed for the post-remedy scenario. As discussed previously, active remediation would release chemicals through soil handling and volatilization while the post-remediation phase would release chemicals through volatilization only. To preclude this VOC release to the atmosphere, the capped area of the site will include an underlying vapor collection system that will channel volatiles to a treatment system located on the west side of the site.

The post-remediation phase, however, would not likely release chemicals through the fugitive dust pathway (wind erosion, excavation) due to the cap and clean fill soil. Therefore, the post-remediation COPC list would be limited to volatile organic compounds (VOCs) due to the ability to volatilize and travel through soil.

Although the focus of this HRA is on the potential impact of the short-term proposed remedial activities, the Site may also present potential health risks in the remediated state. Because the Site would be capped, it is anticipated that the main exposure pathway would be inhalation of VOCs that were not captured by the landfill gas collection system, such as diffusion through the evapotranspirative cap lining slopes of the capped site. Health risks associated with the post-remedial state of the Site, directly after implementation of the remedy, and on a longer term basis, are discussed below.

To reduce health risks associated with the remediated Site such that they are insignificant for the intended land use, soils in the City parcel will be excavated such that residual concentrations in soil are equal to or lower than soil risk-based concentrations (RBCs) or background concentrations. RBCs, as shown on Table 4-1 of the draft RAP, were updated with current toxicity values and exposure factors. Details of the soil RBC calculations and their significance/interpretation are addressed in the RAP. To ensure that the projected

[21] *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588). South Coast Air Quality Management District. June 2011.*

insignificant health risks are achieved, the landfill gas collection system provided within the remediated and capped Site would be monitored. These vapor samples would be tested, controlled (clean soil layer and gas collection pipes) and reported to DTSC as discussed in the RAP.

For the longer term, VOC monitoring data, collected as described above, would be evaluated in a post-remediation HRA.

3.1.5 COPC Concentration Calculation

Detections of specific chemicals in soil and soil gas samples were variable throughout the Site because of varying waste disposal practices in several pits and lagoons. Because of this variability, statistical analyses were performed to develop appropriate average concentrations for each COPC to be used for risk analysis, consistent with DTSC and USEPA guidelines for human health risk assessments.[22] USEPA's ProUCL software program was used for this statistical evaluation, and generally 95 percent Upper Confidence Limits (UCLs) of the arithmetic means, as recommended by this software, were selected as described below.[23]

For chemicals that were detected in more than five samples, the 95 percent UCL was calculated to represent source concentrations on-site.[24] The 95 percent UCL is defined as "a value that, when repeatedly calculated for randomly drawn (data) subsets of size *n*, equals or exceeds the true population mean 95 percent of the time."[25] Thus, the 95 percent UCL represents an upper bound on the mean concentration for each COPC and is frequently used as the exposure point concentration (EPC) for COPCs that are subject to direct contact. For chemicals with a low frequency of detection, reliable 95 percent UCLs could not be calculated. Thus, for chemicals detected in fewer than five samples, the maximum concentration was used as a representative concentration.

Separate COPC lists were developed for Alternatives 4 and 6 because of differences in depths of excavation for each plan. Alternative 4 consists of partial removal of waste where some waste would remain in place, while Alternative 6 would require excavation of all waste and impacted soil. Excavation of more soil under Alternative 6 is anticipated to yield more dust impacted by COPCs (and possibly more ambient volatile organic compound [VOC] emissions) from greater depths below the ground surface than Alternative 4. Thus, separate COPC lists were required for the two remedial alternatives. Once the Site is remediated, longer term potential exposures to COPCs are to be evaluated in a final human health risk assessment which is beyond the scope of this HRA. Waste and impacted soil remaining in place under Alternative 4 would be capped and provided with a landfill gas collection system. Under this alternative, it is unlikely that chemicals would be released through either the fugitive dust or volatilization pathway. In addition, post-remediation monitoring of vapors evacuated by the gas collection system would be conducted to ensure that health protective standards are met.

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[22] *Supplemental Guidance to RAGS: Calculating the Concentration Term. USEPA. May 1992.*

[23] *U.S. Environmental Protection Agency, ProUCL Version 4.1. Statistical Software for Environmental Applications for Data Sets With and Without Non-Detect Observations, May 2010. Available at: http://www.epa.gov/osp/hstl/tsc/software.htm.*

[24] *Department of Toxic Substances Control, Human Health Risk Assessment Note Number 4, Screening Level Human Health Risk Assessments, (June 9, 2011).*

[25] *U.S. Environmental Protection Agency, RAGS (Risk Assessment Guidance for Superfund), Vol 3, Part A, Appendix E. "Definition of Terms Relevant to PRA (Probabilistic Risk Assessment) and References for Further Reading." (December 31, 2001).*

In addition, separate COPC lists were developed for Pit F and the remainder of the site because excavation activities for Pit F are distinct from those used for the remainder of the site. Pit F would be excavated under a temporary structure that will capture emissions for treatment prior to release to the atmosphere. Therefore, the emissions profile for Pit F will differ significantly from the remainder of the site. Under either Alternatives 4 or 6, Pit F will be completely excavated, so the Pit F emissions inventory would be identical for both alternatives.

Calculation Software (ProUCL)

For chemicals detected on-site requiring statistical analysis, the USEPA program ProUCL (Version 4.1) was used. ProUCL is a statistical software package developed by the USEPA for environmental applications with the ability to handle datasets with nondetect observations. The ProUCL software was originally developed to calculate statistics for Superfund and RCRA sites consisting of many sampling observations. The software is able to calculate the 95 percent UCL for samples with multiple detection limits, as was needed with the Ascon dataset. Finally, the ProUCL software provides a reliable and consistent UCL calculation for environmental data which can be easily reproduced for review.

ProUCL Input Data

Chemical sampling data were processed in order to screen out samples for reasons such as being composite samples, non-detect samples with elevated detection limits, lower concentration duplicates, chemicals which are non-detect anywhere on-site, and chemicals with no assigned or appropriate surrogate toxicity value. These refined COPC datasets were then input into the ProUCL software. Chemicals with five or more detections were analyzed using ProUCL, and J-flagged data and non-detect values were included. J-flagged data refers to estimated COPC concentrations that are above the Method Detection Limit (MDL) but below the Reporting Limit (RL), where only concentrations above the RL may be considered accurate and reproducible, depending on results of laboratory quality control tests.

95th Percentile UCL Methodology and Calculations

In order to estimate the UCL for data sets with non-detects, ProUCL may use several methods to calculate the 95 percent UCL, including substitution methods (e.g., DL/2, DL), Regression on Order Statistics (ROS) methods (normal, lognormal, and gamma), and the Kaplan-Meier (KM) method. The ProUCL program output recommends a specific method based on the distribution of data (normal, lognormal, gamma or non-parametric) and the number of detects vs. non-detects. Because available Site data were gathered from various locations at different times, detection limits may vary for a specific chemical. In such situations where the data contain multiple non-detects and are not consistent with a prescribed distribution, the non-parametric KM method is recommended for datasets with multiple detection limits.[26] Specifically, the KM(Chebyshev) method is recommended because it provides adequate coverage of the data to estimate a population mean for left-censored (skewed) data sets where the variance ranges between 1 to 3 and sample sizes exceed 40. These conditions apply to most of the site data used in this HRA. To be consistent in selecting a UCL, the 95% KM(Chebyshev) UCL was selected for all data with five or more detections.

For chemicals with five or more detections, data sets were prepared for Alternative 4 (Non-Pit F), Alternative 6 (Non-Pit F), and Pit F sampling data, which include both detected and non-detected samples. As discussed

[26] *USEPA, ProUCL Version 4.1 User's Guide (Draft), (May 2010).*

above, these data sets were organized to remove samples which were not useful for statistical analysis (composites, blanks, duplicates, etc.). For chemicals with less than five detects, the maximum detected concentration was used as the source concentration. Results for each of the scenarios are presented in **Table 18**, *Alternative 4 Non-Pit F UCL*, **Table 19**, *Alternative 6 Non-Pit F UCL*, and **Table 20**, *Pit F UCL*. **Tables 18, 19 and 20** identify chemicals with five or more detects and less than five detects. The appropriate values listed in these tables were then used to calculate emission rates from fugitive dust or volatilization.

3.2 EMISSIONS CALCULATIONS

Implementation of the proposed project (Alternative 4) or Alternative 6 could result in emissions of fugitive dust, VOCs and equipment exhaust. Although fugitive dust itself is not considered toxic, metals and other chemicals bound to the soil particulates could expose sensitive receptors to health hazards.

The various types of emissions to be included from the site remediation phase are summarized in **Figure 12**. The emissions inventory was developed to further define and detail the specifics of the emission calculation methodology to be used in conjunction with the Site CEM. This methodology would define the procedures for emissions inputs/estimates for these release mechanisms in the CEM for subsequent quantification in the HRA.

The approach first identified the emission characterization techniques/models that were used for the CEM release mechanisms, and to overlay this information on the CEM (**Figure 12**) graphically to cross-reference the information. As shown in **Figure 12**, emissions generated during remediation activities would include both particulate matter and VOC emissions from the release of fugitive dust and VOCs in the soils and groundwater.. Emissions would also include those from remediation sources and activities, including diesel exhaust from construction equipment and fugitive dust/silica emissions from concrete removal/crushing.

The second step of the emission inventory methodology assigned the applicable equations for estimating emissions to the Ascon Site and remediation activities. This step involved defining activities both spatially across the Site and also temporally during the remedial action and cross-referencing the physical remediation activities to the release mechanisms and emissions equations.

The emissions calculation methodology section is organized consistent with the CEM (**Figure 12**) and is categorized by source (soil, water, volatile organics) and release mechanism (fugitive dust, volatilization, equipment exhaust). A discussion of the emissions inventory is provided below and is organized into the following sections:

1. Fugitive Dust
    a. Road Dust
    b. Soil Excavation and Handling
    c. Grading and Grubbing
    d. Wind Erosion

2. Vehicle and Equipment Exhaust
    a. Haul Truck Emissions
    b. Heavy Equipment Emissions
3. Concrete Breaking
4. Volatile Emissions
    a. Active Off-gassing (soil disturbance)
    b. Passive Off-gassing
    c. Groundwater

In order to calculate emissions resulting from remediation activities, emission factors and equations were selected from guidance developed by regulatory agencies (i.e. United States Environmental Protection Agency [USEPA], South Coast Air Quality Management District [SCAQMD], and California Air Resources Board [CARB]) and/or peer-reviewed studies. Federal and state regulatory agencies throughout the country may develop specialized emission factors or equations for specific applications. As a result, there may be multiple emission factors or equations attempting to describe the same source (paved roads, soil handling, etc.). Since multiple emission factors and equations may be available, the selection of a source reference depends on the regulatory agency and the appropriateness of the factors and equations to the source activity. The hierarchy to be used in selection of emission factors was based on the regulatory agency beginning with the USEPA AP-42 emission factors followed by California agencies (CARB and SCAQMD), then other state and local regulatory agencies, followed by any peer-reviewed published research. Emission factors were also selected on appropriateness where those which are not adequate for the analysis were screened out with an explanation. USEPA AP-42 emission factors also have rankings assigned based on accuracy of predicting actual emissions, ranked on a scale of A through F, with F being the least accurate. Although AP-42 emission factors were placed first in the selection hierarchy, equations with a low emission factor rating may be excluded and replaced with other equations (CARB, SCAQMD, etc.). Details about each calculation methodology section are provided below. The overall remediation schedules for Alternatives 4 and 6 are provided as **Table 21**, *Alternative 4 - Remediation Schedule*, and **Table 22**, *Alternative 6 - Remediation Schedule*, respectively.

3.2.1 Fugitive Dust Emissions

Although fugitive dust itself is not considered toxic, metals and other COPCs bound to the soil particulates could expose sensitive receptors to health hazards if disturbance causes fugitive dust emissions into the atmosphere. Emissions for fugitive dust from remediation related activities were calculated using standard USEPA methodologies used for construction and hazardous waste/superfund site evaluations and include emissions from unpaved road traffic, construction activities and wind erosion. Construction activities can be further classified into more detailed processes (such as grading, bulldozing, excavation and material/soil handling) and emissions from these activities were applied based on the specific site/remediation activities.

Fugitive dust emissions are calculated for total particulate matter or total suspended particulate (PM or TSP). The emissions are often speciated into particulate emission rates of certain particle sizes. Respirable particulate matter are particles less than 10 microns in aerodynamic diameter (PM_{10}). Fine particulate matter are particles less than 2.5 microns ($PM_{2.5}$) and are known to penetrate deeper into the lungs and thus have increased adverse health effects compared to PM_{10}. It should be noted that $PM_{2.5}$ is a subset of PM_{10},

and that emissions calculated using PM_{10} specific factors include $PM_{2.5}$ emissions. For the purposes of overall inventory development, total PM, PM_{10} and $PM_{2.5}$ were calculated. However, PM_{10} emission rates (which includes $PM_{2.5}$ as a subset) were used for the purposes of the HRA.

The fugitive dust emission equations outlined below are presented in a general format that allows calculation of total PM, PM_{10} and $PM_{2.5}$. As $PM_{2.5}$ is a subset of PM_{10}, particulate multipliers ($PM_{2.5}/PM_{10}$ ratio) for $PM_{2.5}$ were used to estimate emissions that were used as HRA inputs. As an example, the SCAQMD calculates that $PM_{2.5}$ comprises approximately 21 percent of total PM_{10} emissions for general construction dust.[27] In order to calculate $PM_{2.5}$ emissions resulting from fugitive dust, PM_{10} fugitive dust emissions are multiplied by 21 percent. The $PM_{2.5}/PM_{10}$ ratio for dust would vary depending on the type of material (i.e. concrete, gravel, soil) factored into the fugitive dust calculations below.

As fugitive dust would be generated from various activities such as road dust, excavation, and wind erosion, the emissions calculations were performed separately for each source. In addition, fugitive dust calculations are dependent upon soil parameters and conditions such as silt loading, moisture content, soil density and wind speed. Assumptions which are used in the fugitive dust calculations are presented in **Table 23,** *Fugitive Dust Calculation Assumptions***.**

During excavation activities, fugitive dust is typically controlled according to SCAQMD Rule 403 requirements as described above. However, the project would implement a number of features that are consistent with Rule 403 requirements. These features include:

- Use of Model Year 2007 and newer trucks for export and use of EPA Tier 3 emissions compliant equipment for on-site activities. (cleaner engines, lower DPM emissions).
- Idling of all on-site equipment and trucks would be limited to five minutes per instance. (reduces DPM emissions).
- Trucks travelling on-site would be limited to 5 miles per hour (mph) for haul trucks, and 15 mph for non-haul trucks. (reduces fugitive dust).
- Use of dust and VOC suppressants for disturbed portions of the site and additional watering. Tarps covering stockpiles when not in use. (reduces fugitive dust by up to 80 percent).
- Enhanced trackout prevention devices. Use of Rusmar® foam, or similar suppressant. (volatile emissions and odor control)
- Active monitoring of VOCs during excavation activities. (reduces likelihood of VOC release).
- During Pit F excavation, a temporary structure would be installed to capture emissions. Waste would be placed in sealed bins for transport. (reduces fugitive dust and volatiles and controls odors).

The emissions reduction features listed above are included in **Table 23** as assumptions for the emissions inventory. The methodology for estimating fugitive dust emissions for each source type are discussed in further detail below and are presented in **Tables 24 through 37** for Alternatives 4 and 6**.**

[27] *South Coast Air Quality Management District, Final Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds, (October 2006).*

Not all soil handling activities at the site would result in fugitive dust emissions as the site contains areas of waste with "flowable materials" (i.e., mixture of a solid and a liquid). These flowable materials have been identified at various locations throughout the site, including Lagoons 4 and 5. Emissions calculations for handling of these flowable materials would not include fugitive dust, but would include VOC emissions as described later in this document.

Road Dust (Vehicle Generated)

Fugitive dust emissions associated with truck travel and haul roads depend on the number and type of vehicles traveling on the roads, the vehicle miles traveled (VMT), and other factors related to the vehicles and road surfaces. Haul road emissions include all onsite vehicle traffic except for heavy equipment performing excavation and working the stockpile areas. The USEPA AP-42 equation for vehicles traveling on unpaved surfaces at industrial sites would be used to calculate fugitive dust resulting from on-site truck travel[28]:

Unpaved Road-Industrial Sites[29]	$E = k(s/12)^a(W/3)^b$	Equation 1

Where:

E = PM_{10} Emission factor (lbs/VMT)

k = aerodynamic particle size multiplier (PM_{10} and $PM_{2.5}$)

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = constant based on k

b = constant based on k

Haul truck travel roads would be watered during active operations to minimize fugitive dust emissions. Assumptions for soil parameters used in the calculation are presented in **Table 23**. Maximum hourly and daily emissions were calculated using the same equation, based on the maximum volume of soil removed in an 11-hour work day. Annual emissions were calculated based on soil removed on an average 9-hour work day.

Road dust emissions calculations also take into account the different vehicle types expected to be used during remediation activities. On-road trucks which haul soil to and from the site would be limited to 5 mph on-site. Off-road trucks which are larger vehicles used to move soil on-site would be travelling at an average speed of 15 mph. Off-road equipment such as scrapers, graders, and dozers were assumed to be travelling an average of 7.1 mph based on USEPA default values and mining site survey data.[30]

[28] *U.S. Environmental Protection Agency, AP-42, Fifth Edition, Volume I Chapter 13: Miscellaneous Sources, Equation 13.2.2 (November 2006), Unpaved Roads. http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf*

[29] *Ibid.*

[30] *U.S. Environmental Protection Agency, Revision of Emission Factors for AP-42 Section 11.9 Western Surface Coal Mining. September 1998..*

Mean vehicle weight would also vary depending on the size of truck and whether vehicles are loaded with soil or empty. Smaller service vehicles or personal autos typically range from 2-4 tons while large on-road soil haul trucks may range from 25-40 tons. In addition, on-site soil movement activities would require use of a large off-road soil haul truck which may reach 70 tons when fully loaded. However, USEPA AP-42, Section 13.2.2 states the following:

> *It is important to note that the vehicle-related source conditions refer to the average weight, speed, and number of wheels for all vehicles traveling the road. For example, if 98 percent of traffic on the road are 2-ton cars and trucks while the remaining 2 percent consists of 20-ton trucks, then the mean weight is 2.4 tons. More specifically, Equations 1a and 1b are not intended to be used to calculate a separate emission factor for each vehicle class within a mix of traffic on a given unpaved road. That is, in the example, one should not determine one factor for the 2-ton vehicles and a second factor for the 20-ton trucks. Instead, only one emission factor should be calculated that represents the "fleet" average of 2.4 tons for all vehicles traveling the road.*

As a result, given the USEPA guidance stated above, road dust emissions would be based on the fleet average parameters and would not be calculated on a per vehicle class basis. It was assumed that haul trucks arriving and leaving the site would weigh an average of 25 tons for concrete, bin or 10 cubic yard dump trucks. Trucks (end dump) exporting soil would weigh an average of 30 tons. This average takes into account empty (~15 tons) and fully loaded trucks (~40 tons). Trucks importing soil (double belly bottom dump trucks) are assumed to be fully loaded when arriving at the site and would average 40 tons. The off-road trucks operating on-site would weigh an average of 50 tons when accounting for empty and fully loaded weights. The number of personal vehicles travelling throughout the site is expected to be small and, as a conservative assumption, was not factored into the average vehicle weight.

The assumptions presented in **Table 23** were input into Equation 1 to calculate a PM_{10} emission factor in terms of pounds per mile travelled. The number of truck trips required for each phase of Alternatives 4 and 6 was then multiplied by the travel distance on-site to determine the total VMT. As an example, a phase of remediation may require 100 truck trips per day with a travel distance on-site of 0.1 miles. This would result in a daily VMT of 10 miles. The emission rate would be multiplied by the 10 mile VMT to determine the daily PM_{10} emissions. Fugitive dust emissions calculations for on-site road dust are presented in **Table 24**, *Alternative 4 – On-site Road Dust Emissions*, and **Table 25**, *Alternative 6 – On-site Road Dust Emissions*, for Alternatives 4 and 6, respectively.

Soil Excavation and Handling

Emissions of PM_{10} from excavation and handling of soil from the Site would be estimated using the equation and emission factors in the USEPA AP-42 Section 13.2.4.3.[31] Emission factors generated as a result of the equation apply to soil excavation, stockpile unloading, and truck loading activities. The following equation was used to determine PM_{10} and $PM_{2.5}$ emissions from excavation and handling:

[31] *U.S. Environmental Protection Agency, AP-42, Fifth Edition, Volume I Chapter 13: Miscellaneous Sources, Equation 13.2.4 (November 2006). http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0204.pdf*

Soil Excavation & Handling [32]	$E(lb/ton) = k(0.0032) \times (U/5)^{1.3} / (M/2)^{1.4}$	Equation 2

Where:

E = emission factor, (lbs PM_{10} per ton of soil handled)

k = particle size multiplier (dimensionless)

U = mean wind speed, miles per hour (mph)

M = material moisture content (%)

The emission factor is based on USEPA AP-42 equation 13.2.4.3(1) and is also developed based on ranges of the source conditions such as silt content and mean wind speed. Recommended range parameters and assumptions used for the project site are presented in **Table 23**. Soil parameters including silt loading and moisture content were obtained from default literature values that are deemed representative of Site conditions. The average wind speed was obtained from the SCAQMD Costa Mesa meteorological station for years 2005-2009 from 7:00 AM to 4:00 PM to represent an 11-hour workday. This average represents the wind speed averaged over the entire duration of available meteorological data (5 years). It should be noted that emission factors calculated do not include mitigation measures such as spraying water or foam suppressants to reduce emissions. Maximum hourly and daily emissions were calculated using the same equation, based on the maximum volume of soil removal. Maximum hourly emissions were calculated based on a worst-case 11-hour day while annual emissions were calculated based on an average 9-hour day.

It should be noted that parameters contained in **Table 23** may differ slightly when comparing road dust and excavation dust. Road dust parameters are based on unpaved roads which have slightly different soil and dust characteristics compared to stockpiles or overburden parameters.

The assumptions presented in **Table 23** were input into Equation 2 to calculate a PM_{10} emission factor in terms of pounds per ton of soil handled/excavated. The amount of excavation and soil handling required for each phase of Alternatives 4 and 6 was multiplied by the emission factor to determine PM_{10} emissions during excavation. Fugitive dust emissions calculations for soil excavation and handling are presented in **Table 26**, *Alternative 4 – Soil Excavation and Handling Emissions*, and **Table 27**, *Alternative 6 – Soil Excavation and Handling Emissions*, for Alternatives 4 and 6, respectively.

Grading and Grubbing Emissions

Prior to remediation activities, grubbing to remove vegetation and minor grading would be required to prepare the Site for Pit F treatment systems and the temporary structure. Grubbing and grading would require soil movement using equipment such as bulldozers and graders which do not handle soil in the same fashion as excavators described in Section 4.1.2 above. Excavators typically scoop and drop (dump) soil, generating fugitive dust emissions. Bulldozing and grading however typically push dirt and therefore generate fewer emissions.

[32] *U.S. Environmental Protection Agency, AP-42, Fifth Edition, Volume I Chapter 13: Miscellaneous Sources, Equation 13.2.4.3(1).*

Emissions from bulldozing and grading activities were estimated using USEPA AP-42 chapter 11.9, which provides equations for bulldozing and grading operations. Grubbing activities are anticipated to require occasional use of a bulldozer to move topsoil. The following equations from Table 11.9-1 of AP-42 Chapter 11.9 were used to estimate bulldozing and grading fugitive dust emissions in units of lbs/hr[33]:

Bulldozing[34]	$E(lb/hr) = F \times 1.0(s)^{1.5} / M^{1.4}$ (PM_{10}) $E(lb/hr) = F \times 5.7(s)^{1.2} / M^{1.3}$ ($PM_{2.5}$)	Equation 3

Where:

s = material silt content (%)

M = material moisture content (%)

F = scaling factor of 0.75 and 0.105 would be applied for PM_{10} and $PM_{2.5}$, respectively.

Fugitive emissions from grading activities to prepare Pit F or other staging areas (office trailers) would be estimated using the following equation in terms of lbs/VMT[35]:

Grading[36]	$E(lb/VMT) = F \times 0.051\ (S)^{2.0}$ (PM_{10}) $E(lb/VMT) = F \times 0.04\ (S)^{2.5}$ ($PM_{2.5}$)	Equation 4

Where:

S = mean vehicle speed (mph)

F = scaling factor of 0.60 and 0.0031 would be applied for PM_{10} and $PM_{2.5}$ respectively.

The assumptions presented in **Table 23** were input into Equations 3 and 4 to calculate a PM_{10} emission factor in terms of lbs per hour of bulldozing or lbs per mile of grading. It was assumed that a bulldozer or grader is able to grub 2.0 acres per day.[37] Miles travelled for a grader was calculated based on 2.0 acres per day with a blade width of 12 feet based on a Caterpillar 140 motor grader.[38] It was also assumed that grading would require two passes of the site. Grubbing and grading areas for each phase was then multiplied by the emission factor generated in Equations 3 and 4 to determine a PM_{10} emission rate. Fugitive dust emissions calculations for grading and grubbing activities are presented in **Table 28**, *Alternative 4 – Grading and Grubbing Emissions*, and **Table 29**, *Alternative 6 – Grading and Grubbing Emissions*, for Alternatives 4 and 6, respectively.

[33] *U.S. Environmental Protection Agency, AP-42, Fifth Edition, Volume I Chapter 11.9: Western Surface Coal Mining, Table 11.9-1. http://www.epa.gov/ttn/chief/ap42/ch11/final/c11s09.pdf*

[34] *Ibid.*

[35] *Ibid.*

[36] *Ibid.*

[37] *CalEEMod Calculation Details (Appendix A)*

[38] *Caterpillar, 140K Motor Grader, http://xml.catmms.com/servlet/ImageServlet?imageId=C485691. Accessed February 2013.*

Wind Erosion

Wind erosion was calculated using the Cowherd Method based on an unlimited reservoir.

Wind Erosion (Unlimited Reservoir)[39]	$EF\ (g/m^2 * s) = 0.036\ (1-V)\ (U_m/U_t)^3\ F(x)$	Equation 5

Where:

V = fraction of vegetative cover (default = 0)

U_m = mean wind speed (m/s)

U_t = Equivalent threshold value of wind speed at 7 m/s (default = 11.32) (USEPA, 1996)

F(x) = Function dependent on U_m/U_t derived from Cowherd et. al (1985) (unitless); default = 0.194 (USEPA, 1996)

Wind erosion emission factors calculated above were used to determine stockpile emissions. During remediation activities, multiple stockpiles may be used to store soil after excavation. As these stockpiles are not controlled (covered), windblown dust may generate fugitive dust emissions.

During excavation activities, one small stockpile would be used to temporarily store soil immediately after excavation. This stockpile may be exposed for up to 30 minutes without controls or covering, prior to transport to a larger stockpile, treatment cell or roll-off bin. Soils transported to a larger stockpile would be controlled using a suppressant. Emissions for the small temporary and large stockpile were calculated separately. Fugitive dust emissions calculations for wind erosion (stockpiles) are presented in **Table 30**, *Alternative 4 – Wind Erosion Emissions*, and **Table 31**, *Alternative 6 – Wind Erosion Emissions*, for Alternatives 4 and 6, respectively.

Similar to the material handling operations, the soil erosion equations do not account for additional control strategies that may further reduce emissions. Control strategies may include watering, dust suppression, and/or covering of areas. Controls specific to each phase and operation were identified, and appropriate control efficiencies were added to the emission rate calculations. As fugitive dust control strategies would apply to several different sources (road dust, wind erosion, soil handling), dust control strategies pursuant to SCAQMD rules and regulations would be implemented as discussed previously. Wind erosion emission factors were calculated using the above parameters input to Equation 5.

3.2.2 Vehicle and Equipment Exhaust Emissions

Diesel exhaust emissions are classified as a carcinogen and have the potential to cause a health impact to nearby receptors. Remediation activities would require use of heavy diesel powered equipment as well as diesel powered haul trucks which would generate diesel exhaust. Emission factors for both off-road (heavy construction equipment) and on-road (haul trucks) are generated through two different emissions models as

[39] *U.S. Environmental Protection Agency, User's Guide and Background Technical Document for USEPA Region 9's Preliminary Remediation Goals (PRG) Table, (2004). http://www.epa.gov/region9/superfund/prg/*

discussed below. General assumptions such as hours of operation, vehicle weight, speed, and on-site haul route length are provided in **Table 23**.

On-site Vehicle (Haul Truck) Exhaust Emissions

Emissions from diesel-powered haul trucks travelling on-site were calculated using the CARB EMFAC2011 emissions model.[40] The EMFAC2011 model contains on-road vehicle fleet information (number of vehicles, miles travelled, emissions) based on registration data from the Department of Motor Vehicles.[41] On-site on-road vehicles include, but are not limited to, water trucks, dump trucks, fuel delivery trucks, and hauler trucks. EMFAC2011 outputs provide diesel exhaust emission factors in terms of grams per mile or hour of idling time. Emissions also vary by speed and the size of the engine. Other non-diesel powered vehicles are expected to be minimal and would generate negligible emissions. Diesel emissions from on-site haul trucks were calculated for both idle and travel emissions. Calculations were based on emission factors for the EMFAC vehicle class "T7 Single Construction." The fleet mix was based on Year 2015 scenario with trucks ranging from 1971 to 2016 model years. Additional mitigation was applied to limit truck model years to 2007 and newer.

Idle emissions were based on idle time and the number of trucks operating on-site. Idle time was limited to a maximum of five minutes at a time per the Air Toxics Control Measure adopted by CARB to limit idling toxics emissions.[42] While state regulation limits idling to five minutes at a time, trucks often idle several times on-site (at the site entrance/gate, during soil loading operations, and at the decontamination/exit areas). In order to account for idling emissions at multiple locations on-site, a total of 25 minutes of idling per trip were assumed in calculation of on-site haul truck emissions.

It should be noted that EMFAC2011 emission factors apply to on-road vehicles such as soil haul trucks, delivery trucks and water trucks. Emissions from off-road vehicles such as large soil haul trucks and graders were calculated as part of the on-site equipment emissions inventory in Section 4.2.2.

Travel emissions are calculated based on the number of truck trips, speed and distance travelled. Although the on-site speed limit is set at 15 miles per hour (mph), as a conservative estimate, it is assumed that on road trucks travelling on-site would be travelling at an average of 5 miles per hour, which results in a higher exhaust emission rate compared to 15 miles per hour. Truck travel distances are measured based on the final site plan. Assumptions used to calculate on-site haul truck emissions are presented in **Table 23**. Diesel exhaust emissions calculations for on-site vehicles are presented in **Table 32**, *Alternative 4 – On-site Truck DPM Emissions*, and **Table 33**, *Alternative 6 – On-site Truck DPM Emissions*, for Alternatives 4 and 6, respectively.

On-site Equipment Exhaust

In order to estimate emissions associated with heavy duty diesel construction equipment required for remediation purposes, the types of equipment, number and hours per day must be determined. The number

[40] *California Air Sources Board, Mobile Source Emission Inventory – Current Methods and Data: http://www.arb.ca.gov/msei/modeling.htm. Accessed June 2012.*

[41] *California Air Resources Board, EMFAC2011 Technical Documentation, (January 2013).*

[42] *Cal. Code Regs. Tit. 13, §2485. (http://www.arb.ca.gov/msprog/truck-idling/2485.pdf)*

of pieces of equipment necessary and hours of operation are based on the maximum daily throughput. Equipment emissions are calculated based on USEPA non-road emissions standards to account for the more stringent engines used during remediation activities.[43] USEPA emissions standards are classified as Tiers 1-4, with a higher tier engine resulting in lower emissions (cleaner).[44] As the project would use higher tiered engines (Tier 3) to reduce diesel exhaust, the use of USEPA emissions standards would allow the calculations to account for these engines.

Another component in equipment emissions calculations is the load factor. The load factor is the percent of engine output during average operations. As equipment engines do not run at maximum load (100 percent) throughout the day, the average load factor was included in the emissions calculations. The CalEEMod model developed by the SCAQMD contains off-road engine load factors that are partially based on the CARB OFFROAD2011 model.[45,46]

On-site equipment emissions were then calculated based on emissions standards, load factor, hours of operation and horsepower. As an example, emissions for a piece of equipment with a 100 horsepower rating, 0.5 load factor, an emission rate of 0.1 g/hp-hr running for 8 hours would be calculated as:

100 hp x 0.5 x 0.1 g/hp-hr × 8 hours = 40 grams per 8 hour day

Diesel exhaust emissions calculations for on-site equipment are presented in **Table 34**, *Alternative 4 – On-site Equipment*, and **Table 35**, *Alternative 6 – On-site Equipment*, for Alternatives 4 and 6, respectively. These tables also include a listing of equipment used for each phase of remediation. The list of equipment is deemed representative of the equipment that would be needed to implement the Project; actual equipment may be different.

3.2.3 Concrete Breaking

The project site contains concrete debris located on the surface as well as below the surface (subsurface). The remediation phase of Alternatives 4 and 6 would include the reuse of some concrete debris on-site as fill and/or foundation material. Prior to reusing as fill material, some concrete debris may need to be broken down into smaller pieces, which would generate fugitive dust emissions, by using a hoe-ram or excavator equipment. Debris may also be broken down using a concrete crushing machine. Emissions from the excavation and handling of concrete debris are included in the emissions calculations in Section 3.2.1 (Soil Excavation and Handling) above.

Concrete crushing equipment emissions may be calculated using USEPA AP-42 emission factors or SCAQMD emission factors for demolition activities. Emission factors are not available specifically for concrete breaking activities. Since concrete breaking is similar to building demolition which uses an impact type of

[43] *U.S. Environmental Protection Agency, Nonroad Compression-Ignition Engines – Exhaust Emissions Standards.*

[44] *Ibid.*

[45] *California Emissions Estimator Model. http://caleemod.com/.*

[46] *California Air Resources Board, OFFROAD2007, http://www.arb.ca.gov/msei/offroad/offroad.htm.*

equipment (wrecking ball, hoe-ram, excavator), the SCAQMD emission factor for demolition activities was selected to represent concrete breaking activities:[47]

Concrete Breaking	E = 0.00042 lbs PM_{10}/ft^3 x Concrete Volume (ft^3)	Equation 6

Where:

E = lbs PM_{10}

Emission factors for concrete crushing equipment are lower than the concrete breaking emission factor above due to the dust control strategies required by the SCAQMD.[48] SCAQMD Rule 2100 requires that concrete crushing equipment achieve a 99 percent control efficiency for particulate matter.[49]

However, emission factors for concrete crushing equipment are lower than Equation 6, demolition activities. The USEPA AP-42 emission factor for concrete crushing is 0.00031 lbs/ton (1.4e-5 lbs/ cubic foot) which is lower than the 0.00042 lbs/ cubic foot used in Equation 6.[50] As a conservative approach, it is assumed that concrete on-site would be broken using impact equipment (ram-hoe) and the higher emission factor would be used in the emissions calculation. Fugitive dust emissions calculations for concrete breaking activities are presented in **Table 36**, *Alternative 4 – Concrete Crushing*, and **Table 37**, *Alternative 6 – Concrete Crushing*, for Alternatives 4 and 6, respectively.

$PM_{2.5}$ emissions were calculated using a scaling factor of 0.58 of PM_{10} emissions based on the CARB California Emission Inventory and Reporting System (CEIDARS) database.[51] The emissions calculation assumed that all concrete on-site would require breaking and would be included in the total volume calculation. The maximum volume of concrete on-site to be broken/crushed is estimated as 30,000 cubic yards.

3.2.4 Benzidine Concentrations

Benzidine concentrations were detected at specific locations on the project site, limited to the north-west area. The cancer potency factor (CPF) for benzidine shows that this chemical is highly carcinogenic in comparison to other COPCs detected on the Site.[52] As a result, the cancer risk evaluation for the site may be overestimated if benzidine is assumed to be located throughout the site. Because benzidine is detected only in a limited portion of the site, benzidine emissions were assigned only to sources located in that northwestern portion. (**Figure 13**).

[47] *South Coast Air Quality Management District, SCAQMD CEQA Handbook, Table A9-9-H, Estimating Emissions from Building Wrecking, (1993).*

[48] *South Coast Air Quality Management District, Rule 2100, Registration of Portable Equipment, (Adopted 1995; Amended 1997).*

[49] *Ibid.*

[50] *U.S. Environmental Protection Agency, AP-42 Chapter 11.6, Table 11.6-4, Primary Crushing. Accessed March 2013. Assumes 2400 pounds per cubic yard concrete debris density.*

[51] *California Air Resources Board, California Emission Inventory and Reporting System (CEIDARS) Particulate Matter Speciation Profiles, 2/29/12, http://www.arb.ca.gov/ei/speciate/pmsizeprofile02292012.xls. Accessed 2012.*

[52] *Office of Environmental Health and Hazard Assessment. Table of all Cancer Potency Factors. http://oehha.ca.gov/air/hot_spots/pdf/CPFs042909.pdf. Accessed April 2013.*

Because benzidine-impacted soils are limited to the northwest corner of the site, emissions resulting from excavation of this area were calculated separately. Emissions from benzidine excavated areas are provided in **Table 38**, *Benzidine Excavated Areas - Alternative 4*, and **Table 39**, *Benzidine Excavated Areas - Alternative 6*.

3.2.5 Volatile Emissions

Volatile emissions from remedial activities occur via two separate mechanisms. The first source of emissions is the release of the VOCs in the soil pore space that are emitted during the handling/excavation of VOC contaminated soil. This passive emission typically occurs when VOC-impacted soils are being excavated. The second source of emissions is the diffusion of VOCs from the subsurface through the soil media and emission at ground surface. The second source of emissions can be from a source of contaminated soil that extends to the surface or from contaminated soil at some depth covered by clean soil. This is an on-going process at any site containing VOCs, where the rate of VOC diffusion to ambient air is dependent on several factors as explained below.

Emissions of VOCs from soil during excavation/handling activities are defined by the amount of VOCs in the volume of soil excavated or disturbed. A simplifying assumption is often made that all of the VOC contained in the soil pore-space is released during the mechanical disturbance (USEPA, 1992).

Ambient VOC concentrations arising from undisturbed subsurface contamination depends on the diffusion of the volatile component through the soil pore space. This depends on several variables including the soil physical properties, the moisture content of the soil, the vapor pressure and volatility of the particular VOC, the partitioning between the VOC and the soil moisture and also the diffusivity of the VOC through the air-filled pore space. Since this requires a significant amount of chemical-specific information, computer models developed by USEPA are recommended for use in determining the volatilization factors and the emission rates. One such model, the Exposure Model for Soil Organic Fate and Transport (EMSOFT), that is used by USEPA to develop emission rates for soil screening levels, was used in calculating subsurface diffusive emissions for this HRA. The program was run using the methodology outlined in the *EMSOFT User's Guide*[53] to determine the time-averaged unit emission flux as discussed in further detail below.

Chemicals listed on Site soil COPC databases were screened for volatility status against the USEPA Regional Screening Levels (RSL) table.[54] Those chemicals not found in the RSL table were evaluated for volatility status based on the USEPA definition of VOCs, which states that VOCs are generally chemicals with a Henry's Law constant greater than or equal to 1×10^{-5} atm-m^3/mole and a molecular weight of less than 200 g/mole[55]. Henry's Law constants and molecular weights were obtained from the DTSC Human and Ecological Risk Division's (HERD) Soil Gas Screening Model Chemical Properties Lookup Table[56],[57]

[53] *U.S. Environmental Protection Agency, EMSOFT User's Guide: Update to EMSOFT User's Guide, (2002).*

[54] *U.S. Environmental Protection Agency, Regional Screening Level Summary Table November 2012. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/master_sl_table_run_NOV2012.pdf*

[55] *U.S. Environmental Protection Agency, RSL Users Guide (May 2012). http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/usersguide.htm*

[56] *Department of Toxic Substances Control, California DTSC HERD Soil Gas Contamination Screening Model available at: http://www.dtsc.ca.gov/SiteCleanup/Vapor_Intrusion.cfm*

[57] *ChemSpider. http://www.chemspider.com/.*

Volatile Emissions from Excavation and Export

As explained in the Site RAP, a photoionization detector (PID) will be used to monitor total VOC emissions from excavated soils.[58] Assuming that VOCs are the only chemicals of concern in the excavated soils, these soils would be handled in one of three different ways so as to comply with SCAQMD Rule 1166/1150 requirements:

- PID Measurement < 50 ppmv – Not considered VOC-contaminated soils per SCAQMD Rule 1166. These soils may be re-graded or stockpiled onsite for use in achieving design grades of the final cap or other non-specified site uses, as needed;
- PID Measurement ≥50 ppmv but <1,000 ppmv – considered VOC impacted material and would be placed in one of the treatment cells for vapor extraction and activated carbon emission control; and
  - PID Measurement ≥1,000 ppmv – considered VOC impacted material and would be sprayed with water and/or appropriate suppressant, loaded into sealed containers or the emissions treatment cell within 15 minutes of excavation. If loaded into sealed containers, the material would be transported to an off-site disposal facility within 30 days.

PID measurements would be taken within three inches of the excavated material within three minutes of excavation consistent with Rule 1166/1150. For soils to be treated on-site under Alternative 4, a negative pressure treatment cell consisting of vapor extraction tubing and a conventional soil vapor extraction (SVE) system, supplied with an activated carbon filter, would be used for remediation. The treatment cells would be placed in the Lagoons 1-2 depression and above, if necessary. Near the completion of the cap installation, the treatment cells would be capped, and VOC collection and treatment would continue with the cap treatment system. The cap would be constructed over the treatment cells for alternative 4. Future development of the Site is not contemplated as part of the Project and a restrictive covenant would be recorded by the property owners for the Site in order to protect the integrity and effectiveness of the proposed cap. This restrictive covenant will also protect the treatment cells left in place.

Exposure Model for Soil-Organic Fate and Transport Screening Model

The volatilization of VOCs from the Site to the atmosphere represents a potentially complete human exposure pathway in this risk assessment. The USEPA's Exposure Model for Soil-Organic Fate and Transport (EMSOFT) was used to assess the potential for such exposure to occur at the Site from compounds in the soil and to quantify the potential mass flux of VOCs to the atmosphere over time. The EMSOFT model is based on the theory and studies of Jury, et. al., and addresses situations in which VOCs are located at the surface and buried beneath a clean soil cover (Jury, et. al., 1983, 1990). The model takes into account the specific properties of each chemical including Henry's law constant, diffusivity in air and water, and soil properties such as moisture and porosity. During active remediation activities, VOCs may be released during soil handling, excavation and surface soil disruption by vehicle/equipment travel. The mass fluxes were used as input parameters to the USEPA AERMOD atmospheric dispersion model, which calculates exposure point concentrations. The EMSOFT model provides volatilization factors (VFs) in units of milligrams per square centimeter per day (mg/cm^2-day), which are chemical-specific flux values.

[58] *Draft Remedial Action Plan. Ascon Landfill Site, Huntington Beach, California. Project Navigator. August 1, 2013.*

The EMSOFT model requires the input of chemical data, soil properties, physical constants, and soil layer properties to calculate the chemical-specific flux values for a specified averaging period from as little as a few hours (representing initial off-gassing) to well over a century. The input variables for the chemical data, soil properties, physical constants, and layer properties for the volatiles present at the Site are described below.

Chemical Data

The following parameters are chemical-specific. The EMSOFT model uses these parameters to calculate chemical-specific VFs. The chemical-specific parameters were obtained from a database and literature search of a variety of published sources, including the USEPA and DTSC. The parameter values used in the EMSOFT model for the calculation of VFs were obtained from one of several sources as listed in the detailed supporting documentation provided for **Table 41**, *EMSOFT Model: Summary of Volatilization Factors – Alternative 4, Non-Pit F*, **Table 42**, *EMSOFT Model: Summary of Volatilization Factors – Alternative 6, Non-Pit F,* and **Table 43**, *EMSOFT Model: Summary of Volatilization Factors – Alternative 4 and 6, Pit F*.

- **Organic Carbon Partition Coefficient (abbreviated K_{OC}):** This parameter is a measure of the degree to which a chemical in solution partitions between water and organic carbon under equilibrium conditions. It can generally be described as the affinity of a chemical to be sorbed onto soil or sediment particles. Therefore, higher values of K_{OC} correspond to a greater tendency of a chemical to sorb to organic particles in the soil.
- **Henry's Law Constant (abbreviated K_H or H):** This parameter is a measure of the degree to which a chemical in solution partitions between water and air under equilibrium conditions. Henry's Law states that at a constant temperature, the amount of a given gas that dissolves in a given type and volume of liquid is directly proportional to the partial pressure of that gas in equilibrium with that liquid. The EMSOFT model uses the dimensionless form of the Henry's Law Constant, which is calculated by dividing K_H (expressed in atmosphere-cubic meters per gram-mole (atm-m^3/gmol)) by the product of R, the universal gas constant, and T_R, the reference temperature at standard conditions in degrees Kelvin (i.e., 298 °K, which is equivalent to 25 degrees Celsius [°C]). Literature values of the Henry's Law constant for a specific chemical are typically given at 25°C. Long-term average soil temperatures, however, are normally below this temperature. Therefore, the Henry's Law constants were corrected for the average soil temperature using the Clausius-Clapeyron relationship described in the *EMSOFT User's Guide*[59] and shown below. The Henry's Law constants corrected for the average soil temperature were used in the calculations.

Clausius-Clapeyron relationship: Henry's Law constant adjusted to the average soil temperature	$K_{H,S} = \frac{exp\left[-\frac{\Delta H_{v,TS}}{R_c}\left(\frac{1}{T_S}-\frac{1}{T_R}\right)\right]H_R}{RT_S}$	Equation 7

$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;

[59] *U.S. Environmental Protection Agency, EMSOFT User's Guide: Update to EMSOFT User's Guide, (2002) 25. The dimensionless Henry's law constant may be corrected for the average soil temperature using the Clausius-Clapeyron relationship.*

T_S = Average soil temperature, °K;
T_R = Henry's Law constant reference temperature, °K;
H_R = Henry's Law constant at the reference temperature, atm-m^3/mol;
R_C = Gas constant (1.9872 cal/mol-°K);
R = Gas constant (8.205×10^{-5} atm-m^3/mol-°K).

The enthalpy of vaporization at the average soil temperature can be approximated from the enthalpy of vaporization at the normal boiling point by:

Enthalpy of vaporization at the average soil temperature	$\Delta H_{v,TS} = \Delta H_{v,b}\left[\frac{(1-T_S/T_C)}{(1-T_B/T_C)}\right]^n$	Equation 8

$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;
$\Delta H_{v,b}$ = Enthalpy of vaporization at the normal boiling point, cal/mol;
T_S = Average soil temperature, °K;
T_C = Critical temperature, °K;
T_B = Normal boiling point, °K;
n = Exponent, unitless.

The average soil temperature was estimated from the air temperature using the following relationship:

Average soil temperature	$T_S = 4.646 + 0.986T_A$	Equation 9

T_S = Mean average soil temperature, °F;
T_A = Mean monthly air temperature for one or more years, °F.

Using the above equations and in reverse order, the following is a sample calculation for the Henry's Law constant for ethylbenzene (CAS No. 100-41-4) corrected for the average soil temperature. This calculation was applied individually to each VOC, the results of which are provided as an attachment to Table 41 (EMSOFT Model: Summary of Volatilization Factors – Alternative 4, Non-Pit F) and Table 42 (EMSOFT Model: Summary of Volatilization Factors – Alternative 6, Non Pit-F

Example Calculation for Ethylbenzene (CAS No. 100-41-4):

T_A = 61.9 °F (Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California [COOP ID 046175], NCDC 1981-2010 Monthly Normals).

$$T_S = 4.646 + 0.986 \times 61.9\ °F$$

$$T_S = 65.7\ °F = 291.9\ K$$

$\Delta H_{v,b}$ = 8,501 cal/mol (USEPA, EMSOFT User's Guide, Table 3-3, September 2002);
T_S = 291.9 K;
T_C = 617.2 K (USEPA, EMSOFT User's Guide, Table 3-3, September 2002);
T_B = 409.3 K (USEPA, EMSOFT User's Guide, Table 3-3, September 2002);

n = 0.3748 (USEPA, EMSOFT User's Guide, Table 3-1, September 2002).

$$\Delta H_{v,TS} = 8{,}501\ cal/mol \left[\frac{(1-291.9\ K/617.2\ K)}{(1-409.3\ K/617.2\ K)}\right]^{0.3748}$$

$$\Delta H_{v,TS} = 8{,}501\ cal/mol \left[\frac{(1-0.4729)}{(1-0.6632\ K)}\right]^{0.3748}$$

$$\Delta H_{v,TS} = 8{,}501\ cal/mol\ [1.183]$$

$$\Delta H_{v,TS} = 10{,}055\ cal/mol$$

$\Delta H_{v,TS}$ = 10,055 cal/mol;
T_S = 291.9 K;
T_R = 298.15 K (25 °C);
H_R = 0.00786 atm-m³/mol [60];
R_C = Gas constant (= 1.9872 cal/mol-K);
R = Gas constant (= 8.205 × 10^{-5} atm-m³/mol-K).

$$K_{HS} = \frac{exp\left[-\frac{10{,}055\ cal/mol}{1.9872\ cal/mol\text{-}K}\left(\frac{1}{291.9\ K} - \frac{1}{298.15\ K}\right)\right] 0.00786\ atm\text{-}m^3/mol}{(8.205\times10^{-5}\ atm\text{-}m^3/mol\text{-}K)(291.9\ K)}$$

$$K_{HS} = \frac{exp\left[-5{,}060\ K\left(7.23\times10^{-5}\ K^{-1}\right)\right] 0.00786\ atm\text{-}m^3/mol}{0.0239\ atm\text{-}m^3/mol}$$

$$K_{HS} = exp[-0.3658] \times 0.3289$$

$$K_{HS} = 0.228\ (dimensionless)$$

- **Air Diffusion Coefficient:** This parameter describes the movement of a chemical in the direction of its concentration gradient due to the random motion of individual molecules in air. Diffusion coefficients for EMSOFT must be specified in units of square centimeters per day (cm²/day).
- **Aqueous Diffusion Coefficient:** This parameter describes the movement of a chemical in the direction of its concentration gradient due to the random motion of individual molecules in an aqueous solution. Diffusion coefficients for EMSOFT must be specified in units of cm²/day.
- **Half-life:** This parameter is a measure of the persistence of a chemical in a given medium. It is measured as the time it takes for half of a given mass of a chemical to decay or degrade. The half-life of a chemical can vary due to differences in soil conditions and microbial populations. The half-life parameter in the EMSOFT model may be disregarded in the system calculations by setting the value to 1,000,000 days. Site-specific data on the half-lives of volatiles present at the Site and included in the risk assessment are not available. Thus, in order to provide a conservative assessment, a half-life of 1,000,000 days was assigned to all chemicals.

Soil Properties

The following parameters describe the soil conditions. For this assessment, the soil parameters were obtained from Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating

[60] *Department of Toxic Substances Control, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/ JE_Models.cfm. Accessed January 2013.*

subsurface vapor intrusion into buildings.[61] Version 3.1 is consistent with the USEPA *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils* dated November 25, 2002. The USEPA *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings* provides guidelines for selecting the texture classification based on the predominant soil types.[62] Sampling has been conducted to determine the physical characteristics of the fill and native material at the Site. Laboratory tests conducted for the Remedial Investigation (RI) Report[63] on excavated samples from Lagoons 1 through 5 indicated that "the materials are primarily in the silt range" and "sediment was found to be 54 to 95 percent fine-grained material."[64] The Revised Feasibility Study[65] discusses additional geotechnical analyses that were performed during the Technical Memorandum No. 1 (TM No. 1) Program, which identified three soil strata of geologic interest at the Site:

- Stratum I was found to be "fill material comprised mostly of silty sand and sandy silt, with varying amounts of gravel, clay and construction debris (such as concrete, asphalt, and brick)."[66] This stratum is primarily fill material.
- Stratum II, which was found to be "drilling mud, oily soil waste, and other oil or hydrocarbon-impacted material. Varying amounts of construction debris were also encountered. The drilling mud exhibits the behavior of low-to high-plasticity clay."[67] This stratum is primarily waste material.
- Stratum III, which was found to be "native material, comprised predominantly of silt with varying amounts of sand and clay, underlain by sand (varying in silt content)."[68] This stratum is primarily native soils. According to the RFS in Table E-1, Summary of Subsurface Conditions, and the boring logs in Appendix I, Stratum III soils are usually located very close to (i.e., within 1.5 feet) or below groundwater levels and, therefore, have minimal contribution to attenuating VOC vapor diffusion to ambient air from either soil VOCs or groundwater VOCs.

Given that the Site contains a mix of silt, sand, and clayey material with other larger material such as gravel and construction debris, the predominant soil type at the Site was characterized as silt, sand, and clayey with a high degree of fines. This corresponds to a texture classification of loam. It is assumed that future backfill would be consistent with current fill material (i.e., loam). Therefore, soil parameters consistent with the loam classification were used in the assessment. These parameters are similar to those used in the Revised Feasibility Study for the Ascon Site.[69] The parameters are summarized in **Table 40**, *EMSOFT Model: Summary of Soil Parameters, Physical Constants, and Layer Properties*.

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[61] *U.S. Environmental Protection Agency, "Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings," http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. Accessed February 2013.*

[62] *U.S. Environmental Protection Agency, User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings, Table 11 – Guidance for Selection of Soil Type, (2004) 37.*

[63] *Environmental Science & Engineering, Inc., Remedial Investigation Report, (1997).*

[64] *Project Navigator Ltd., Revised Feasibility Study, Ascon Landfill Site, Huntington Beach, California, (2007) 3-14.*

[65] *Ibid.*

[66] *Ibid., p. 3-15.*

[67] *Ibid., p. 3-15.*

[68] *Ibid., p. 3-15.*

[69] *GeoSyntec Consultants, Development of Risk-Based Concentrations, Appendix P of the Revised Feasibility Study – Ascon Landfill Site, (Project Navigator), September 21, 2007.*

- Fraction Organic Carbon: This parameter describes the fraction of the soil on a dry weight basis that is organic carbon. Higher values correspond to greater sorption and therefore less volatilization. According to the USEPA *EMSOFT User's Guide*, a low organic carbon fraction, representative of a soil with very little organic material, would be on the order of 0.005 or less, while a high organic carbon fraction, representative of soils with significant organic material, could be as high as 0.01.[70] For this assessment, a value of 0.002, which corresponds to the loam texture classification, was used for this parameter.[71]
- Porosity: This parameter is the ratio of the volume of pore space within a soil divided by the total volume of the soil sample. Porosities for sands typically range between 0.25 and 0.50, silts between 0.35 and 0.50, and clays between 0.40 and 0.70.[72] For this assessment, a value of 0.399, which corresponds to the loam texture classification, was used for this parameter.[73]
- Water Content: This parameter is the ratio of the volume of water within a soil divided by the total volume of the soil sample. Under unsaturated conditions, it is less than the soil porosity. For this assessment, a value of 0.148, which corresponds to the loam texture classification, was used for this parameter.[74]
- Bulk Density: This parameter is the dry weight of a soil sample divided by the soil sample volume. For this assessment, a value of 1.59 grams per cubic centimeter (g/cm^3), which corresponds to the loam texture classification, was used for this parameter.[75]

Physical Constants

The following parameters typically vary under normal field conditions; however, the EMSOFT model requires these to be defined as physical constants. The EMSOFT model uses these parameters to calculate chemical-specific volatilization factors (VFs). The physical constants are summarized in **Table 40**.

- Porewater Flux: This parameter describes the porewater movement in soil, both upward and downward, in the unsaturated zone under field conditions. The porewater flux parameter in the EMSOFT model is assumed to be constant in order to allow for an analytical solution to the governing equations. A positive value indicates a downward porewater flux and a negative value indicates an upward porewater flux. On an annual average basis, the porewater flux is typically a positive value consistent with the annual ground water recharge rate. Site-specific data on the porewater flux at the Site are not available. It would be conservative for the purpose of calculating long-term volatilization rates and soil concentrations to assume a porewater flux of zero.[76] Thus, in order to provide a conservative assessment, a porewater flux of zero was assigned to the model.

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[70] *U.S. Environmental Protection Agency, EMSOFT User's Guide: Update to EMSOFT User's Guide, (2002) 37.*

[71] *U.S. Environmental Protection Agency, "Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings," http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. Accessed February 2013.*

[72] *Freeze, R. A. and J. A. Cherry. 1979. Groundwater. Prentice-Hall: Englewood Cliffs, NJ. 604 pp.*

[73] *U.S. Environmental Protection Agency, "Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings," http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. Accessed February 2013.*

[74] *Ibid.*

[75] *Ibid.*

[76] *U.S. Environmental Protection Agency, EMSOFT User's Guide: Update to EMSOFT User's Guide, (2002) 38.*

- Boundary Layer Thickness: This parameter describes the distance across an atmospheric boundary layer from the surface to a point where the wind flow velocity has reached the free stream velocity. A default boundary layer thickness that may be used in EMSOFT when no other data are available is 0.5 cm.[77]

Layer Properties

The following parameters are site-specific and describe the thickness of the variouslayers at the Site. The EMSOFT model uses these parameters to calculate chemical-specific VFs. The layer properties are summarized in **Table 40.**

- Cover Thickness: This parameter describes the thickness of an uncontaminated soil layer at the surface. In general, if contamination begins at the surface, a value of zero should be assigned. For this assessment, a value of zero was assigned to the cover thickness in the EMSOFT model.
- Layer Thickness: This parameter describes the thickness of the contaminated soil layer. This layer is assumed to be below the cover layer described above. It is estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately five to 25 feet. A layer thickness of 30 feet was assigned to the model as a conservative assumption.
- Contaminant Concentration: This parameter is the concentration of the chemical in the layer. The concentrations were derived using statistical methods to estimate site specific source concentrations. As discussed previously, for chemicals detected in more than five samples, the 95 percent UCL of the arithmetic mean of sampling data was calculated to represent concentrations in the layer. The 95 percent UCL is the concentration at which there is a 95 percent confidence level that the true mean (average) concentration of the sample population is equal to or below that value. For chemicals detected in fewer than five samples, the maximum detected concentration was used to represent the concentrations in the layer. Since the amount of soil excavation would be different under Alternative 4 and Alternative 6, contaminant source concentrations were calculated separately for each alternative. Therefore, the EMSOFT model was used to obtain VFs for Alternative 4 and Alternative 6.

Volatilization Factors and VOC Emissions

For modeling purposes, it was assumed that exposure would begin at the onset of the project and would continue for an averaging period (i.e., the length of time off-gassing is assumed to occur) consistent with the duration of the project. The potential for short-term exposures was also assessed using short-term averaging periods. Volatilization factors were calculated from the EMSOFT model for different averaging periods in order to estimate potential short-term emissions from active excavation and soil handling areas and longer-term emissions from stabilized excavated and stockpile areas. For example, the VFs for estimating potential acute impacts are based on an average flux duration of 0.1 days (the minimum length of time allowed in the EMSOFT model calculations), which is used to represent the maximum hourly emissions, and 1 day, which represents the maximum daily emissions. The resulting VFs from the EMSOFT model for these averaging periods are provided in **Table 41**, , **Table 42**, , and **Table 43**. The chemical-specific VFs calculated using the above assumptions are provided in Appendix X. Volatilization factors were not

[77] *Ibid., p. 43.*

calculated for non-volatile compounds (compounds that do not meet the definition of a VOC as discussed previously).

To convert the EMSOFT modeled VFs into estimated VOC emissions into the atmosphere, it is necessary to multiply the VFs by the area exposed to the atmosphere, which is the area actively volatilizing, and then converting to the appropriate time period to obtain emissions in units of mass per time period (e.g., pounds per hour, pounds per year, etc.). As a practical matter, VOC emissions would be controlled using a number of measures, as discussed previously. VOC emissions would be actively monitored during excavation of VOC-containing soils. VOC's during excavation and stockpiling activities would also be controlled using Rusmar® foam, or similar suppressant. Stockpiles would be covered with a suppressant and would be monitored for emissions. Soils with VOCs concentration of greater than 50 ppm would be reconsolidated to the treatment cell. For modeling purposes, the emission estimates take into account the application of foam, which USEPA has indicated has a control efficiency range between 91 and 100 percent for long-term control.[78] For the purposes of this analysis, a 91 percent control efficiency was applied. It was assumed that an area of up to 0.25 acres from each of the two stockpiles would be exposed to the atmosphere, a portion of which would be in an uncontrolled state at any given time due to active deposition or removal of soil. The exposed area for excavated soil is based on the estimated hourly and daily cubic yards of excavated soil during each phase. A portion of this area would also be uncontrolled at any given time due to active excavation activity. The foam would continue to be applied to newly graded or excavated area, and excavation would meet the applicable requirements in SCAQMD Rule 1166. The estimated VOC emissions are provided in **Table 44**, *Summary of Estimated VOC Emissions – Alternative 4*, and **Table 45**, *Summary of Estimated VOC Emissions – Alternative 6*.

Soil Handling and Stockpiling Activity Off-Gassing (Active)

During excavation and stockpiling activities, VOC contaminated soils would be exposed to the air for a short amount of time, resulting in off-gassing emissions. The project would comply with SCAQMD Rule 1166, which limits the amount of VOCs emitted during soil handling activities as well as during stockpiling. Contaminated soil would be either stored in a sealed container or in a stockpile, where VOC emissions would also be controlled with foam suppressants. However, the active excavation area would be exposed to the atmosphere while in active operation. It is estimated that the active area would be controlled via application of Rusmar® foam, or similar suppressant, within 1 hour.[79]

Off-gassing emissions would be calculated using the USEPA approved EMSOFT model. During excavation activities, for emission calculation purposes, it is conservatively assumed that soil would be exposed to the atmosphere for up to one hour in an uncontrolled state. However, in practice, remediation activities would comply with SCAQMD Rule 1166, which states that excavated soil with a VOC concentration greater than 1,000 parts per million (ppm) shall be sprayed with water or a vapor suppressant and placed in sealed containers within 15 minutes, loaded into trucks and moistened, covered, and transported off-site within 30 days or contained using an approved alternative storage method (e.g., treatment cell). Emissions would be calculated based on the amount of soil excavated on an hourly and daily basis.

In addition to soil handling or excavation, vehicle and equipment travel over contaminated soil could potentially release VOCs to the atmosphere. Tire treads from vehicles and tracks from construction

[78] *U.S. Environmental Protection Agency, Control of Air Emissions from Superfund Sites, (1992) 108.*

[79] *Project Navigator, Ltd., (2013).*

equipment would disturb surface soils potentially generating emissions. For purposes of the emissions inventory, the depth of surface soils are defined as two feet below the surface in order to account for vehicle tires or equipment tracks possibly disturbing soil to this depth. Soils located deeper than two feet below the surface would be classified as subsurface and are not expected to be disturbed by tire or equipment tracks. The VOC emissions from vehicle and equipment travel over contaminated soil are calculated for the new north haul road. The calculation of VOC emissions from the road surface is handled as if it were an excavated surface with emission rates obtained from the EMSOFT model.

Subsurface and Stockpile Off-Gassing (Passive)

During times when active remediation activities are not taking place, VOCs may be released through off-gassing from the subsurface or stockpiles. These emissions would be calculated using the same equations contained in Section 3.2.5. When calculating the emission flux rate from soils, the EMSOFT model takes into account the depth of potentially off-gassing materials and other soil parameters such as porosity, organic carbon and moisture. Calculations contained above in Section 3.2.5 for surface emissions flux calculations would be used to estimate the emission flux from subsurface and stockpile off-gassing.

Negative Pressure Treatment Cells and Pit F Structure

The negative pressure treatment cells are expected to be fully contained. Typically, treatment systems using carbon bed absorption (i.e., granular activated carbon [GAC]) are designed to remove 95 percent of VOC emissions when operating for extended durations.[80] Volatility of compounds in contaminated soil would be calculated using the EMSOFT model as described in previous sections. The volatilization factor would take into account the finite availability of VOCs contained in the soil as well as the time duration of exposure. Even though the GAC system is expected to achieve 99 percent VOC removal efficiency (applicable short-term), the 95 percent VOC capture efficiency would be applied to both the negative pressure treatment cells and the Pit F structure during remediation activities. The 95 percent VOC capture efficiency would be applied to the emission calculations for soil volatilization from Pit F.

Steady-State Vapor Flux Model for Groundwater Volatilization

The volatilization of organic compounds from groundwater at the Site to the atmosphere represents a potentially complete human exposure pathway in this risk assessment. A steady-state vapor flux model was used to simulate vapor mass flux to the ground surface. The model accounts for upward diffusive flux and downward advective flux due to recharge; however, the model does not account for changes in source concentration over time. The vapor flux model was used to assess the potential for human exposure to occur and to quantify the mass flux of VOCs to the atmosphere over time. The mass fluxes were used as input parameters to the atmospheric dispersion model, which calculates exposure concentrations that are used in the risk assessment. The vapor flux model outputs total chemical-specific mass flux values in units of micrograms per square meter per second ($\mu g/m^2$-s). Flux values were only calculated for VOCs, as defined previously.

The vapor flux model requires the input of chemical data, soil properties, physical constants, and layer properties to calculate the chemical-specific flux values. The input variables for the chemical data, soil

[80] *U.S. Environmental Protection Agency, AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources (August 1982).* *http://www.epa.gov/ttn/chief/ap42/ch04/final/c4s02_2j.pdf*

properties, physical constants, and layer properties for the volatiles present at the Site and included in the risk assessment are described below.

Chemical Data

The following parameters are chemical-specific properties. The vapor flux model uses these parameters to calculate chemical-specific mass flux.

- Concentration in Groundwater: This parameter describes the concentration of the chemical in the groundwater. The concentration is determined from the groundwater testing results and is specified in units of micrograms per liter (µg/L).
- Henry's Law Constant (abbreviated K_H or H): This parameter is a measure of the degree to which a chemical in solution partitions between water and air under equilibrium conditions. Henry's Law states that at a constant temperature, the amount of a given gas that dissolves in a given type and volume of liquid is directly proportional to the partial pressure of that gas in equilibrium with that liquid. The vapor flux model uses the dimensionless form, which is calculated by dividing K_H expressed in units of atm-m^3/gmol by the product of R, the universal gas constant, and T_R, the reference temperature at standard conditions in degrees Kelvin (25 °C). Literature values of the Henry's Law constant for a specific chemical are typically given at 25°C. Long-term average soil temperatures, however, are normally below this temperature. Therefore, the Henry's Law constants were corrected for the average soil temperature using the Clausius-Clapeyron relationship as discussed previously.
- Air Diffusion Coefficient: This parameter describes the movement of a chemical in the direction of its concentration gradient due to the random motion of individual molecules in air. Diffusion coefficients for the vapor flux model must be specified in units of square meters per second (m^2/s).
- Aqueous Diffusion Coefficient: This parameter describes the movement of a chemical in the direction of its concentration gradient due to the random motion of individual molecules in an aqueous solution. Diffusion coefficients for the vapor flux model must be specified in units of m^2/s.

The chemical-specific data discussed above and provided in Appendix X were obtained from a database and literature search of the sources previously discussed for the EMSOFT model.

Soil Properties

The following parameters describe the soil conditions. For this assessment, the soil parameters were obtained from Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating subsurface vapor intrusion into buildings.[81] Version 3.1 is consistent with the USEPA *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils* dated November 25, 2002. The USEPA *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings* provides guidelines for selecting the texture classification based on the predominant soil types.[82] As discussed previously, sampling has been conducted to determine the physical characteristics of the fill and native material at the Site. The

[81] *U.S. Environmental Protection Agency, "Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings," http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. Accessed February 2013.*

[82] *U.S. Environmental Protection Agency, User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings, Table 11 – Guidance for Selection of Soil Type, (2004) 37.*

Site contains a mix of silt, sand, and clayey material with other larger material such as gravel and construction debris. The predominant soil type at the Site was characterized as silt, sand, and clayey with a high degree of fines. This corresponds to a texture classification of loam. It is assumed that future backfill would be consistent with current fill material (i.e., loam). Therefore, soil parameters consistent with the loam classification were used in the assessment. The parameters are summarized in **Table 46**, *Summary of Soil Parameters, Physical Constants, and Layer Properties for Groundwater VOC Emissions*.

- Porosity: This parameter is the ratio of the volume of pore space within a soil divided by the total volume of the soil sample. Porosities for sands typically range between 0.25 and 0.50, silts between 0.35 and 0.50, and clays between 0.40 and 0.70.[83] For this assessment, a value of 0.399, which corresponds to the loam texture classification, was used for this parameter.[84]
- Water Content: This parameter is the ratio of the volume of water within a soil divided by the total volume of the soil sample. Under unsaturated conditions, it is less than the soil porosity. For this assessment, a value of 0.148, which corresponds to the loam texture classification, was used for this parameter.[85]
- Air Content: This parameter is the ratio of the volume of air within a soil divided by the total volume of the soil sample. This is equal to the difference between the matrix porosity and the volumetric water content.
- Fracture Porosity: This parameter is the space associated with bedrock fractures and does not include the space associated with the matrix porosity. For the purpose of this assessment (e.g., groundwater volatilization from the monitoring wells), the fracture porosity is set to zero.

Physical Constants and Layer Properties

The following parameters typically vary under normal field conditions; however, the vapor flux model requires these to be defined as physical constants. The following parameters also describe the thickness of the sub-surface layer between the source and the surface. The vapor flux model uses these parameters to calculate chemical-specific mass flux. The layer properties are summarized in **Table 46**.

- Average Steady Recharge Rate: This parameter describes the seepage velocity of water through the vadose zone. The value is the negative of the average steady recharge rate since the flow is downward and the vertical coordinate is defined as positive upward.
- Sub-surface Layer Thickness: This parameter describes the thickness of the sub-surface layer between the source and the surface.

For modeling purposes, it was assumed that exposure would begin at the onset of the project and would continue for an averaging period (i.e., the length of time off-gassing is assumed to occur) consistent with the duration of the project. The calculation of the volatilization methodology is based on the following three formulas:

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[83] *Freeze, R. A. and J. A. Cherry. 1979. Groundwater. Prentice-Hall: Englewood Cliffs, NJ. 604 pp.*

[84] *U.S. Environmental Protection Agency, "Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings," http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. Accessed February 2013.*

[85] *Ibid.*

The initial formula calculates the concentration of the volatilized chemicals in the soil gas directly above groundwater in units of micrograms per cubic meter (µg/m³).

VOC Concentration in Soil Gas from Groundwater Volatilization	$C_{SG} = C_{GW} \times K_{H,S} \times C_f$	Equation 10

C_{SG} = Concentration in soil gas, µg/m³;
C_{GW} = Concentration in groundwater, µg/L;
$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
C_f = Conversion factor, 1,000 L/m³.

The second formula calculates the effective diffusion coefficient of the volatilized chemicals in soil gas upwards through subsurface soils.

Effective Diffusion Coefficient	$D_{eff} = \left[\theta_W \left(\frac{\theta_W^{7/3}}{n^2}\right) \times \frac{D'_W}{K_{H,S}}\right] + \left\{\left[\varphi_f + \theta_V \left(\frac{\theta_V^{7/3}}{n^2}\right)\right] \times D'_A\right\}$	Equation 11

D_{eff} = Effective diffusion coefficient, m²/s;
D'_A = Diffusion coefficient in air, m²/s;
D'_W = Diffusion coefficient in water, m²/s;
$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
n = Porosity (matrix porosity), m³-void space/m³-soil;
θ_W = Water content (matrix water content), m³-water/m³-soil;
θ_V = Air content (matrix air content), m³-air/m³-soil;
ϕ_f = Fracture porosity, m³-air/m³-soil (= 0).

The third formula calculates the total mass flux into the atmosphere.

Total Flux Mass	$F = \frac{C_{source} R/K_{H,S}}{exp\left(\frac{R \times L}{D_{eff} \times K_{H,S}}\right) - 1}$	Equation 12

F = Total mass flux , µg/m²-s;
C_{source} = Soil gas source vapor concentration, µg/m³;
D_{eff} = Effective diffusion coefficient, m²/s;
$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
L = Thickness of the sub-surface layer, m;
R = Average steady recharge rate, m/s;

Groundwater VOC Emissions to Ambient Air

Chemical-specific groundwater VOC emission rates to ambient air (in units of lbs/hr or lbs/yr) were calculated using total mass fluxes derived above multiplied by the flux area associated with the respective groundwater well and unit conversion factors to convert micrograms to pounds and seconds to hours or years. For example, a sample calculation for ethylbenzene (CAS No. 100-41-4) is provided below:

Example Calculation for Ethylbenzene (CAS No. 100-41-4):

C_{GW} = 380 µg/L (Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 Ascon Landfill Site, May 1, 2012);
$K_{H,S}$ = 2.28E-01;
C_f = 1,000 L/m^3.

$$C_{SG} = 380\ \mu g/L \times 2.28E\text{-}01 \times 1{,}000\ L/m^3$$

$$C_{SG} = 8.65E\text{+}04\ \mu g/m^3$$

D'_A = 7.50E-06 m^2/s;
D'_W = 7.80E-10 m^2/s;
$K_{H,S}$ = 2.28E-01;
n = 0.399 m^3-void space/m^3-soil;
θ_W = 0.148 m^3-water/m^3-soil;
θ_V = 0.251 m^3-air/m^3-soil;
ϕ_f = 0 m^3-air/m^3-soil.

$$D_{eff} = [0.148 \times (0.148^{7/3} / 0.399^2) \times 7.80E\text{-}10 / 2.28E\text{-}01] + \{ [0 + 0.251 \times (0.251^{7/3} / 0.399^2)] \times 7.50E\text{-}06\}$$

$$D_{eff} = 4.70E\text{-}07\ m^2/s$$

C_{source} = 8.65E+04 µg/m^3;
D_{eff} = 4.70E-07 m^2/s;
$K_{H,S}$ = 2.28E-01;
L = 16.97 m;
R = 8.55E-10 m/s;

$$F = (8.65E\text{+}04 \times 8.55E\text{-}10 / 2.28E\text{-}01) / \{\exp [(8.55E\text{-}10 \times 16.97) / (4.70E\text{-}07 \times 2.28E\text{-}01)] - 1\}$$

$$F = 2.24E\text{-}03\ \mu g/m^2\text{-}s$$

The groundwater VOC emission rates were calculated from the vapor flux model (Equation 12) assuming an unlimited reservoir and steady-state volatilization rates from the groundwater in proximity to specific monitoring wells on the Site for different averaging periods. Therefore, for each chemical, the emission rates are the same when estimating potential short-term emissions and long-term emissions. The resulting groundwater VOC emission rates are provided in **Table 47**, *Summary of Groundwater VOC Emission Rates– Alternative 4 and 6.* The emissions are provided in **Table 48**, *Summary of Estimated VOC Emissions from Groundwater Monitoring Wells – Alternative 4 and 6***.**

3.2.6 Speciation and Emissions Calculations

Speciation profiles were selected to calculate emissions of specific pollutants. Speciation profiles provide estimates of the chemical composition of emissions and are used for calculation of emissions inventories. Fugitive dust and VOCs are comprised of different pollutants which all have different risk factors. Fugitive dust emissions calculated above provides an emission rate of $PM_{10}/PM_{2.5}$. The speciation profile was then developed to determine the chemical composition of the fugitive dust. In order to assess risk from different pollutants, speciation of VOCs and fugitive dust emissions must be performed to calculate emissions of individual pollutants.

Standard speciation profiles have been developed by the USEPA and CARB for commonly analyzed facilities such as landfills, industrial factories, refineries, and road dust. Since the project site is expected to contain a unique speciation profile, actual sampling data are used.

Pollutants that were detected in earlier Site characterization studies were organized in the COPC emissions inventory databases. As discussed above, these data sets were evaluated using USEPA's ProUCL statistical program (version 4.1) to derive a 95 percent upper confidence limit (UCL) on the arithmetic mean concentration for each COPC. Thus, the 95 percent UCLs are representative COPC source term concentrations that would be used to determine exposure point concentrations (EPCs), which is used in the HRA for estimating the incremental increase in health risks for off-site receptors.

In order to provide a conservative analysis, the USEPA recommends that the 95 percent UCL be used as an upper bound chemical concentration that can be expected at a site. The 95 percent UCL is thus meant to account for varying daily chemical exposures to a typical receptor. For inhalation exposures to off-Site receptors, examples of factors that contribute to this variable exposure include the area of the Site being excavated, prevailing wind direction, ambient temperature, and barometric pressure. The 95 percent UCL concentrations were used to develop a speciation profile for fugitive dust to calculate emissions for each of the non-VOC COPCs in fugitive dust. The speciation profile for each individual chemical was then multiplied by the fugitive dust (i.e., PM_{10}) emission rate to determine the rate for each individual COPC. With regard to volatile COPCs, further analysis was required based on volatilization factors as described above. During phases with concrete crushing, crystalline silica contained in the concrete debris may be emitted into the atmosphere. Although crystalline silica content in concrete on-site was not sampled for or analyzed, it was assumed that this chemical is present in concrete debris. In addition, a chronic toxicity value has been derived for crystalline silica by OEHHA due to the potential health risks.[86] Crystalline silica speciation was assumed to be 28 percent of concrete debris.[87] Therefore, this speciation factor was applied to concrete crushing emissions.

The non-VOC speciation factors were multiplied by the fugitive dust emissions to generate emission factors for each individual COPC. These emissions are presented as **Table 49**, *Summary of Estimated Non-VOC Emissions (Fugitive Dust) – Alternative 4 (Annual) and (Hourly),* and **Table 50**, *Summary of Estimated Non-VOC Emissions (Fugitive Dust) – Alternative 6 (Annual) and (Hourly)*. Pit F non-VOC speciation was presented as **Table 51**, *Summary of Estimated Non-VOC Emissions (Fugitive Dust) – Pit F (Annual) and (Hourly)*.

[86] *Office of Environmental Health and Hazard Assessment, Chronic Toxicity Summary – Silica, Crystalline, (February 2005).*

[87] *Applied Occupational and Environmental Hygiene, Control of Respirable Dust and Crystalline Silica from Breaking Concrete with a Jackhammer, (2003).*

3.2.7 Emissions Formatting

Fugitive dust emissions were further processed to assign emissions to specific sources for dispersion modeling and risk calculation. Emissions were also separated by type, such as diesel particulate from equipment or vehicle exhaust, fugitive dust from soil handling or crystalline silica from concrete breaking activities. As remediation activities would take place in multiple phases throughout the site, emissions must be parsed out to the appropriate source. As an example, during remediation, two haul roads (north and south) may be used for trucks importing or exporting soil. As truck travel would vary between the two haul roads during the remediation process, emissions were assigned according to phase.

As a conservative assumption, it was assumed that the 95 percent UCL concentration (chemicals with >=5 detects) or maximum concentration (chemicals with <5 detects) would be representative of COPC concentrations throughout the site. Concentrations of COPCs were also calculated separately for Pit F as remediation activities would be performed under a negative pressure environment, separate from the remainder of the site.

3.2.8 Pit F Emissions

As discussed above remediation activities during Pit F excavation for Alternatives 4 and 6 would be performed within a negative pressure structure to control emissions. Prior to construction of the negative pressure structure, minor grading would be performed which will generate fugitive dust. The negative pressure environment would be maintained with a filtration system that would control approximately 99 percent of effluent emissions.[88] However, as trucks and workers are entering and leaving the negative pressure structure, some emissions may escape through the point of entry. As a conservative measure, it was assumed that the negative pressure structure would capture and control up to 95 percent of emissions resulting from Pit F excavation.

The emissions for Pit F were assigned to a source corresponding to the discharge point from the negative-pressure air enclosure after GAC treatment, which captures emissions from the excavated waste prior to discharge to the atmosphere. As a conservative (i.e., health-protective) modeling assumption, the discharge point was located on the western side of Pit F closer to off-site sensitive receptors. The design of the negative-pressure air enclosure has not yet been finalized. Locating the discharge point in the central or western side of Pit F would result in reduced concentrations at off-site sensitive receptors from Pit F emissions due to the increased separation distance.

3.2.9 Benzidine Concentrations

As discussed previously, benzidine concentrations were detected at specific locations on the project site, limited to the north-west area. The benzidine contaminated area was determined based on chemical sampling data. As shown in **Figure 13**, *Benzidine Excavated Area*, the extent of benzidine occurrence is limited to the north-west corner. Since benzidine is limited to a portion of the site, benzidine emissions were assigned only to sources located in the north-west area of the site.

[88] *Project Navigator to Confirm*

3.2.10 Emission Control Strategies

Voluntary but enforceable emission control strategies would be implemented to minimize emissions of volatile COPCs and fugitive dust as required by SCAQMD Rule 1166 and 403. Although fugitive dust itself is not considered toxic, metals and other COPCs bound to the soil particulates could expose sensitive receptors to health hazards if disturbance causes fugitive dust emissions into the ambient atmosphere.

Control strategies should be implemented to minimize emissions of DPM and fugitive dust COPCs. Such control strategies that were included in the analysis are as follows:

- Use of USEPA Tier 3 Off-road equipment and the use of 2007 and newer trucks for soil export for lower pollutant emissions;
- Foam suppressants and soil stabilizers for dust control;
- Activated carbon units (treatment cell and Pit F) to reduce volatile emissions.

Other control strategies which will be implemented include sealed roll-off boxes during Pit F excavation and ; use of a negative pressure structure. The negative-pressure structure to be installed during Pit F remediation activities would also serve to capture fugitive dust and VOC emissions by using carbon filtration on effluent. Control strategies implemented to control fugitive dust (COPC) emissions during excavation/remedial operations and control of DPM emissions are presented in **Table 23,** *Fugitive Dust Calculation Assumptions* which lists control efficiencies and the emission source controlled.

Control strategies are presented in terms of a percent reduction of emissions based on studies reviewed and approved by regulatory agencies (USEPA, SCAQMD). This percent reduction is then multiplied by the fugitive dust or VOC emission rate to account for appropriate control strategies. As an example, the use of dust suppressants to control fugitive dust emissions from exposed surfaces and active excavation sites would result in a 80 percent decrease in fugitive dust emissions. This 80 percent reduction is then applied to the fugitive dust emission rate from exposed surfaces and active excavation sites to determine a mitigated or controlled emission rate.

However, there are a number of control strategies which could reduce emissions of COPCs, but such reductions are not readily quantifiable. Such strategies include posting a telephone complaint hotline to address citizen complaints; installation of enhanced trackout prevention devices (e.g., gravel pad, shaker plates); and active wind monitors to alert on-site workers of the need for additional dust control strategies.

3.3 AERMOD

Dispersion modeling was performed using the AMS/USEPA Regulatory Model (AERMOD) model which is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain. AERMOD is listed as a preferred model in USEPA's *Guideline on Air Quality*

Models.[89] AERMOD is utilized by the USEPA and Cal/EPA for estimating ground-level impacts from point and fugitive sources in simple and complex terrain. The SCAQMD requires that AERMOD be run using USEPA regulatory default options, unless non-default options are justified.[90] In this case, AERMOD was run using USEPA regulatory default options. Additional modeling options consistent with the SCAQMD guidance are listed below:

- Urban dispersion (Orange County population of 3,010,759, as per SCAQMD guidance);[91]
- Averaging periods: 1-hour and annual (chronic and cancer risk);
- Flagpole receptor heights: 0 meter (corresponding to ground-level concentrations); and
- No building downwash (no buildings are located within the zone of influence for the modeled point sources).

The AERMOD model (version 12060) was used in conjunction with the graphical user interface, AERMOD View (Version 8.1), provided by Lakes Environmental Software. A source receptor diagram for Alternatives 4 and 6 are shown as **Figures 14**, *Source Receptor Diagram – Alternative 4*, **and 15**, *Source Receptor Diagram – Alternative 6*, respectively. Shown on **Figures 14 and 15** are the sources shown as red polygons and receptors shown as yellow cross marks. Details regarding source and receptor place are explained in further detail below.

3.3.1 Source Characterization

Sources of air emissions for Alternatives 4 and 6 used in dispersion modeling are different due to the different activities entailed by each alternative. The sources are summarized in **Table 52**, *List of Sources – Alternative 4* and **Table 53**, *List of Sources – Alternative 6*. The list of receptors considered for modeling are presented in **Table 54**, *List of Receptors*. The toxicity factors of chemicals present on-site are summarized in **Table 55**, *List of Toxicity Factors*. Assumptions on emission rates are shown in **Table 56 through 63**, *AERMOD Emission Rate Inputs – Alternative 4* and *Alternative 6*, for annual and hourly emissions.

Due to the number of sources and chemicals to be analyzed for each alternative, emissions entered into AERMOD are based on a unitized 1 g/s for each source. The use of a unitized emission factor (1 g/s) requires a single dispersion modeling run as opposed to separate modeling runs for each chemical and source. Concentrations of actual chemicals were estimated by the health risk calculation software or spreadsheet.

Area Sources

Remediation activities such as excavation and equipment movement on-site generates emissions similar to vehicles travelling over unpaved haul roads. Sources of on-site equipment movement and excavation activities were characterized using the USEPA Haul Road guidance. Dispersion modeling of haul roads was performed by designating them as area sources of pollutants, consistent with USEPA guidance for haul

[89] *40 CFR Part 51, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions; Final Rule.*

[90] *AQMD Modeling Guidance for AERMOD. http://www.aqmd.gov/smog/metdata/AERMOD_ModelingGuidance.html. Accessed May 2013.*

[91] *South Coast Air Quality Management District, "AQMD Modeling Guidance for AERMOD," http://www.aqmd.gov/smog/metdata/AERMOD_ModelingGuidance.html. Accessed April 2013.*

roads.[92] Area sources simulate uniform emission density across a roadway, which is more representative of haul roads than other modeling source types. Assumptions used in dispersion modeling were consistent with USEPA recommendations, including:

- Top of plume height – 1.7 x Vehicle Height
- Release height – 0.5 x top of plume height
- Sigma Z (initial plume height) – Top of Plume height / 2.15
- Emissions input as g/s/m2

Area sources were also divided by fugitive emissions and equipment exhaust emissions. Fugitive emissions would have a lower release height due to a ground level release. Diesel powered equipment would have a higher release due to the exhaust stack being located either on top of the vehicle or at wheel level. Since release height differs between these two sources (fugitive dust and diesel), fugitive dust and diesel sources were modeled separately to take into account the release height. Vehicle height was assumed to be 10 feet (~3 meters) which results in a plume height of approximately 5 meters based on the USEPA Haul Road recommended equations above. Release height for fugitive dust sources was assumed to be 2.5 meters (0.5 x top of plume height) while diesel exhaust sources were assumed to be 5 meters.

Point Sources

As mentioned previously, Pit F excavation would be performed under a negative pressure structure which would be maintained using a blower and granular activated carbon (GAC) filtration. The blower would achieve approximately 20,000 cubic feet per minute (CFM). Exhaust temperature from the blower was estimated to be ambient temperature (25°C) with a release height of 15 feet.

3.3.2 Receptors

Some population groups, including children, elderly, and acutely and chronically ill persons (especially those with cardio-respiratory diseases), are considered more sensitive to exposure to certain chemicals than are others. Sensitive land uses in close proximity include the following:

- Residential east of the Site. Single-family residential uses are located east of Magnolia Street, approximately 30 meters (100 feet) east of the Site;
- Residential northwest of the Site. Single-family residential uses are located along Hatteras Drive north of the Southern California Edison (SCE) right-of-way, approximately 90 meters (300 feet) northwest of the Site;
- Edison High School. Edison High School is located near the northeast corner of Hamilton Avenue and Magnolia Street north of the SCE right-of-way, approximately 120 meters (400 feet) northeast of the Site; both student and employee (staff) exposures would be assessed;
- Fire Station. A fire station (Magnolia Fire Station #4) (where employees reside while on shift) is located approximately 105 meters (350 feet) north of the Site; and

[92] *U.S. Environmental Protection Agency, "Haul Road Workgroup Final Report Submission to EPA-OAQPS," March 2012.*

- Community Center. The Community Center is located north of Hamilton Avenue to the north of the SCE right-of-way, approximately 150 meters (500 feet) north of the Site.

A discrete Cartesian receptor grid was used to determine impacts in the vicinity of the project Site. Field receptors were placed at 25-meter intervals outside the boundary of the Site to cover the sensitive receptors listed above. Due to the size of the Site and the number of model runs required, this receptor grid was determined by DTSC to provide a balanced approach with respect to receptor coverage and model run times. This receptor grid is also consistent with SCAQMD recommended guidance for AERMOD.[93] Source receptor diagrams for modeling each alternative are shown in **Figure 14**, *Source Receptor Diagram – Alternative 4*, and **Figure 15**, *Source Receptor Diagram – Alternative 6*, respectively. Although receptors were placed around the entire site, the analysis would focus on sensitive receptors (residential and school uses), as well as worker and park visitor receptors.

3.3.3 Meteorological Data

The SCAQMD provides model-ready, preprocessed meteorological data for use in dispersion modeling using AERMOD. The use of SCAQMD meteorological data ensures consistency among dispersion modeling analyses in the South Coast Air Basin and eliminates the need for individual parties to apply their own correction measures for missing data. Meteorological data from the SCAQMD Costa Mesa monitoring station, located at 2850 Mesa Verde Drive, Costa Mesa 92626, approximately 3 miles to the north-west of the Site, were used. To account for annual variations in wind patterns, three years of meteorological data were used (years 2005, 2006, and 2007). Wind rose figures illustrating the prevailing wind speeds and directions during the 2005 to 2007 period are shown in **Figure 16,** *SCAQMD Costa Mesa Meteorological Station Wind Rose, 2005–2007*.

3.3.4 Terrain Data

Terrain heights were obtained from digital terrain elevation data developed by the U.S. Geological Survey (USGS) by using its Shuttle Radar Topography Mission (SRTM) data. The SRTM data provides terrain elevations with 1-meter vertical resolution and 30-meter horizontal resolution based on a Universal Transverse Mercator (UTM) coordinate system. The UTM coordinates are referenced to an appropriate map projection based on World Geodetic System of 1984 (WGS 84). The elevations were applied to the model sources and receptors.

3.4 HARP

Health risk impacts are assessed using the HARP model (version 1.4) developed by CARB.[94] The health risk calculation methodology contained in HARP is consistent with the OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*.[95] For this risk assessment, the HARP model was used to analyze the results of the AERMOD dispersion model and convert the unitized pollutant concentrations into chemical-specific incremental cancer risks and non-cancer chronic and acute health impacts. The results of the HRA for each alternative are calculated based on identifying the MEI in each

[93] *South Coast Air Quality Management District, "AQMD Modeling Guidance for AERMOD," http://www.aqmd.gov/smog/metdata/AERMOD_ModelingGuidance.html. Accessed April 2013.*

[94] *California Air Resources Board, "Hotspots Analysis Reporting Program," http://www.arb.ca.gov/toxics/harp/harpdownload.htm. Accessed April 2013.*

[95] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003).*

alternative scenario. The location of the MEI for acute, chronic and cancer risk may vary depending on the type of chemical and the source contribution. Certain chemicals may have a cancer risk factor, while others may only have an acute risk factor which could result in the MEI being located at different receptors.

3.4.1 Exposure Parameters and Pathways

Health impacts are evaluated using a dose-response assessment, which describes the relationship between the amount of exposure to a substance (i.e., the dose) and the incidence or occurrence of injury (i.e., the response).[96] In order to determine the total dose to off-site sensitive receptors, the applicable pathways of exposure should be identified. The applicable exposure pathways (e.g., inhalation, soil) are identified for the emitted substances, and the receptor locations are identified. The applicable exposure pathways determine the exposure algorithms that are used to estimate dose. After the exposure pathways are identified, the applicable fate and transport algorithms are used to estimate concentrations in the applicable exposure media (e.g., air) and the exposure algorithms are used to determine the substance-specific dose. In accordance with the OEHHA Guidelines, the inhalation pathway was evaluated for the identified COPCs. For the inhalation pathway, dose is directly proportional to the breathing rate. As a conservative (i.e., health protective) approach, maximum breathing rates were used in this analysis.

3.4.2 Toxicity Factors

As discussed in the OEHHA Guidance, health impacts are evaluated using a dose-response assessment, which describes the relationship between the amount of exposure to a substance (i.e., the dose) and the incidence or occurrence of injury (i.e., the response).[97] The dose-response assessment typically involves establishing a toxicity value or criterion to use in assessing potential health risk. The toxicity value or criterion for carcinogenic compounds is the cancer potency slope, sometimes referred to as the cancer potency factor, which describes the potential risk of developing cancer per unit of average daily dose over a 70-year lifetime period. Inhalation and oral cancer potency factors have been determined by OEHHA or by the USEPA and endorsed by OEHHA. A list of toxicity factors used in the analysis is included as **Table 55,** *List of Toxicity Factors*.

Cancer potency factors are expressed as the upper bound probability of developing cancer assuming a continuous 70-year lifetime exposure to a substance at a dose of one milligram per kilogram of body weight, and are expressed in units of inverse dose as a potency slope [i.e., $(mg/kg/day)^{-1}$]. Cancer potency factors may also be expressed in units of inverse concentration [$(mg/m^3)^{-1}$)] when the slope is based on exposure concentration rather than dose. When expressed in units of inverse concentration, the toxicity value is referred to as the unit risk factor. It is assumed in cancer risk assessments that risk is directly proportional to dose and that there is no threshold for carcinogenesis. The derivation of carcinogenic inhalation and oral cancer potency factors takes into account the available information on pharmacokinetics and on the mechanism of carcinogenic action. These values are generally the 95 percent UCL on the dose-response slope.

[96] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003) 7-1 – 7-7.*

[97] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003) 7-1 – 7-7.*

OEHHA Guidance recommends the use of inhalation cancer potency factors expressed in units of inverse dose as a potency slope [i.e., $(mg/kg/day)^{-1}$], although unit risk factors, in the units of inverse concentration as micrograms per cubic meter (i.e., $(mg/m^3)^{-1}$), can also be used for assessing cancer inhalation risk directly from air concentrations.[98] Breathing rates, expressed in units of liters per kilogram of body weight-day (L/kg*BW-day or L/kg-day), can be coupled with the modeled air concentrations of the COPCs to estimate dose in units of mg/kg-day, which allows for the estimation of average, high-end, and distributions of cancer risk.

3.4.3 Cancer Risk and Non-Cancer Impact Characterization and Calculations

Cancer Risk Characterization

As previously discussed, health risk impacts were calculated using the HARP model. Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, would have some associated risk. Incremental health risk associated with exposure to carcinogenic compounds is defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$) over a 70-year lifetime. The URFs utilized in the assessment and the corresponding cancer potency factors (CPF) were obtained principally from OEHHA Guidance. For compounds not listed in the OEHHA database, toxicity values from the USEPA Integrated Risk Information System (IRIS) were utilized.

For the inhalation pathway, the cancer risk characterization procedure requires the incorporation of several discrete variables to effectively quantify dose. Once determined, dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day $(mg/kg/day)^{-1}$ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the proposed population, the following dose algorithm was utilized.

Dose quantification	$CDI = (C_{AIR} \times EF \times ED \times IR) / (BW \times AT)$	Equation 13

CDI = Chronic daily intake (mg/kg/day);
C_{AIR} = Concentration in air (mg/m^3);
EF = Exposure frequency (days/year);
ED = Exposure duration (years);
IR = Inhalation rate (m^3/day);
BW = Body weight (kg);
AT = Averaging time (days).

OEHHA-recommended default values for the parameters listed above were used in the HRA analysis. These default values assumed an exposure frequency of 350 days per year and an exposure duration of 1 year for

[98] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003) 7-1 – 7-2.*

Alternative 4 and an exposure frequency of 350 days per year and an exposure duration of 3.5 years for Alternative 6. The OEHHA recommended high end inhalation rate of 393 L/kg (BW) – day was used in the analysis with an average body weight of 70 kg (154 lbs) which equates to approximately 27.5 m^3/day inhalation rate. An averaging time of 25,550 days was used in the analysis (70 years x 365 days/year).[99]

In addition to the inhalation pathway, other pathways were considered in the analysis including soil ingestion, dermal contact, mother's milk ingestion, and home grown produce ingestion. As specific soil ingestion and dermal contact parameters are not available for the surrounding site, OEHHA default values were used in the analysis. [100] Soil (fugitive dust) deposition was calculated based on a 0.02 meter per second (m/s) deposition rate based on OEHHA default values. Soil pollutant concentrations were calculated using concentrations obtained through AERMOD dispersion modeling and the 0.02 m/s deposition rate. Soil ingestion rate used in the analysis was based on the OEHHA default value of 1.7 mg/kg body weight per day. [101] Dermal exposure is also based on a OEHHA default value of 350 day per year exposure duration for residential uses and 245 days per year for workers.[102]

Home grown produce uptake of pollutants deposited in soil was calculated based on a duration of 45 days for leafy crops and 90 days for exposed crops. Mother's milk is based on a nursing mother being exposed to pollutant concentrations for the project duration. [103]

The incremental cancer risk is the product of the dose and the COPC-specific CPF value. Cancer risk is calculated by multiplying the inhalation dose by the inhalation cancer potency factor to yield the potential inhalation excess cancer risk. The following equation illustrates the formula for calculating cancer risk. To convert this risk value to an incremental cancer risk in per one million persons exposed, the potential cancer risk is multiplied by 10^6.

Cancer Risk (chances per million)	Cancer Risk = Dose (mg/kg-day) × CPF $(mg/kg\text{-}day)^{-1}$	Equation 14

Non-Carcinogenic Chronic and Acute Impact Characterization

An evaluation of the potential non-cancer effects of chronic and acute chemical exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the short-term and long-term annual ground-level concentration of each chemical compound with the appropriate Reference Exposure Level (REL). The REL is the concentration at or below which no adverse health effects are anticipated. Available RELs promulgated by OEHHA were considered in the assessment. For compounds not listed in the OEHHA database, RELs from the Consolidated Table of OEHHA/ARB Approved Risk

[99] *Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003) 5-16.*

[100] *Ibid.*

[101] *Air Toxics Hot Spots Risk Assessment Guidelines; part IV; Exposure Assessment and Stochastic Analysis Technical Support Document. Office of Environmental Health and hazard Assessment. 2000.*

[102] *Ibid*

[103] *Ibid*

Assessment Health Values were utilized. When identified, USEPA Reference Concentrations (RfCs) reported in this table were substituted with updated values from the IRIS database.

In the absence of published inhalation REL/RfC values, a compound's available oral reference dose was employed by assuming equal absorption through the inhalation and oral routes. When inhalation and/or oral toxicity values were not available, informal inhalation concentrations were developed by converting occupational exposure levels (i.e., Threshold Limit Values) derived by the American Conference of Governmental Industrial Hygienists to a lifetime exposure, as follows:

American Conference of Governmental Industrial Hygienists inhalation concentrations	(TLV in mg/m^3) × (20 m^3/day) / [(420) × (70 kg)] = mg/kg/day	Equation 15

The exposure level expressed in mg/kg/day may additionally be converted to µg/m^3 by the following:

Conversion of American Conference of Governmental Industrial Hygienists inhalation concentrations	(mg/kg/day) × (70 kg) × (1,000 µg/mg) / (20 m^3/day) = µg/m^3	Equation 16

To quantify non-carcinogenic impacts, the hazard index, or HI, approach was used. The approach assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were utilized. When informal concentrations were developed, endpoints identified in the U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health Pocket Guide to Chemical Hazards were employed.

To calculate the HI, each chemical's concentration or dose is first divided by the appropriate toxicity value to derive the chemical-specific hazard quotient (HQ). For compounds affecting the same toxicological endpoint, The HQ values are summed. Where the total is equal to or exceeds one, a potential health hazard is presumed to exist. In a manner consistent with the assessment of carcinogenic exposures, REL/RfC values were converted to units expressed in mg/kg/day to accommodate the above referenced intake algorithm. The following formulas describe the calculation of the HI:

Hazard Quotient	$HQ = \frac{Annual\ Average\ Concentration\left(\frac{\mu g}{m^3}\right)}{Reference\ Exposure\ Level\left(\frac{\mu g}{m^3}\right)}$	Equation 17

Hazard Index (for the same organ system)	$HI_{organ1} = HQ_{substance1(organ1)} + HQ_{substance2(organ1)} \ldots$	Equation 18

As shown in Equation 6, the HI is the sum of all hazard quotients from all the substances that affect the same toxicological endpoint or organ system (e.g., respiratory system, cardiovascular system, reproductive system). Not every TAC affects the same target organ. For example, benzene does not have chronic impacts on the respiratory system while DPM has chronic impacts on the respiratory system. In accordance with OEHHA guidance,[104] the target organs listed below are evaluated when identifying the maximum chronic and acute HI.

- Blood system;
- Bone/skeletal system;
- Cardiovascular system;
- Central nervous system;
- Developmental system;
- Endocrine system
- Eye/visual system;
- Gastrointestinal system and liver;
- Immune system;
- Kidneys;
- Reproductive system;
- Respiratory System; and
- Skin.

3.5 SUPPLEMENTAL HEALTH RISK CALCULATIONS

The HARP software contains the most recent toxicity factors developed by OEHHA and CalEPA. However, several COPCs identified above do not have toxicity factors in the HARP software. Instead, these COPCs have toxicity factors developed by other agencies such as the USEPA IRIS database, Provisional Peer Reviewed Toxicity Values (PPRTV), Agency for Toxic Substances and Disease Registry (ASTDR), or the Health Effects Assessment Summary Tables (HEAST). As the toxicity factor database contained within HARP cannot be edited, health risk calculations for these chemicals must be performed outside of HARP. These calculations were therefore performed in a spreadsheet using methodology identical to that used in HARP. A list of chemicals which were not contained in the HARP software along with the appropriate toxicity factor is provided in **Table 64**, *List of Chemicals to Analyze Outside of HARP*.

[104] *Office of Environmental Health Hazard Assessment, Consolidated Table of OEHHA / ARB Approved Risk Assessment Health Values, (May 2012).*

3.5.1 Dilution Factor

As mentioned previously, AERMOD dispersion modeling was performed using a unitized emission factor (1 g/s) to allow for easier accounting of different sources and chemicals. The air dispersion modeling results are expressed as an air concentration or in terms of (Chi over Q) for each receptor point. (Chi over Q) is the modeled downwind air concentration based on an emission rate of one gram per second. (Chi over Q) is sometimes written as (χ/Q). The results of the unitized dispersion modeling run are also known as a dilution factor in units of (ug/m^3) / (g/s). This dilution factor can also be interpreted as the concentration (ug/m^3) at a specific receptor that would result from an emission rate of 1 (g/s) from a source. A dilution factor is calculated for every source and receptor and provided as a look up table. This dilution factor lookup table was then used to calculate the concentration contribution from each source and chemical not contained in the HARP software.

When multiple substances are evaluated, the (χ/Q) is normally utilized since it is based on an emission rate of one gram per second. The (χ/Q) at the receptor point of interest is multiplied by the substance-specific emission rate (in g/s) to yield the substance-specific ground-level concentration (GLC) in units of µg/m^3. The calculation is based on the following equations.

Substance-specific ground-level concentration	$GLC = \left({}^{\chi}/_{Q}\right)(Q_{substance})$	Equation 19

(X/Q) = (Chi over Q) from model results with unit emission rate, (µg/m^3)/(g/s);
$Q_{substance}$ = Substance-specific emission rate, g/s.

The maximum impacted receptors were identified as those closest to the project site. In order to limit calculation time and complexity, the closest residential and school receptors were selected for analysis. The list of these receptors and the dilution factor lookup table are provided as **Tables 65 and 66**, *Supplemental HRA Calculations (Dilution Factor)*, for Alternatives 4 and 6, respectively. Concentration calculations are provided in **Tables 67 and 68**, *Supplemental HRA Calculations (Concentration)*, for Alternative 4 and 6, respectively. Health risk calculations are provided in **Tables 69 and 70**, *Supplemental HRA Calculations (Concentration)*, for Alternatives 4 and 6, respectively.

3.5.2 Health Risk Calculations

Cancer and chronic risk were calculated based on the same parameters used for HARP as discussed above. Acute risk factors were not available for the chemicals not contained in HARP, and therefore, acute risk was not analyzed for these chemicals.

Non-inhalation pathways (ingestion, dermal, mother's milk, home grown vegetables) were not analyzed in the supplemental HRA calculations as inhalation is the dominant pathway for health risk. In addition, chemicals analyzed in the supplemental HRA do not significantly contribute to the overall health risk in comparison to chemicals analyzed within HARP. A toxicity screening calculation was performed in order to demonstrate that chemicals analyzed outside of HARP would not significantly contribute to the overall health risk impacts.

The toxicity screen is based on the toxicity factors for the specific chemicals and concentrations detected through sampling. Toxicity factors were obtained from the USEPA IRIS Database, HEAST or other toxicity

databases discussed above. The toxicity screening calculations are provided in **Table 71**, *CT Score Calculation (Supplemental Calculations),* for Alternatives 4 and 6.

3.5.3 Blood Lead Calculations

Lead, which is a naturally occurring element detected on Site, has potential adverse human health impacts, namely to neurological effects. Although lead is considered in the cancer, chronic and acute health risk calculations, additional analysis was performed specifically for child and fetal exposure.

In 2007, OEHHA developed a new toxicity evaluation of lead replacing the 10 µg/dL threshold blood concentration with a source-specific "benchmark change" of 1 µg/dL. One ug/dL is the estimated incremental increase in children's blood lead that would reduce IQ by up to 1 point. OEHHA has identified lead for child-specific analysis due to young children receiving higher exposures in proportion to their smaller body size and absorbing a higher percentage of the lead they ingest. Fetuses are also sensitive to the effects more than adults since lead affects the developing nervous system.[105]

In light of the updated CalEPA lead toxicity criterion, as well as the need for revision to ensure that the model is adequately protective of women of child-bearing age, the DTSC has developed the LeadSpread model to address lead exposure to children and fetuses (pregnant mothers). LeadSpread modeling is not recommended for use with adults.[106] With regard to modeling blood lead for adults, the USEPA Adult Lead Model (ALM) would be considered appropriate.[107] The DTSC has also released a version of the ALM with the same assumptions used in LeadSpread. LeadSpread and the modified ALM were used to model lead exposure to children and adults, respectively.

LeadSpread and ALM require several inputs including lead concentration in the soil, exposure duration, and ingestion rate. It should be noted that the soil lead concentration input into the LeadSpread and ALM models are at the sensitive receptor (residence, school) and not the actual project site. These models calculate soil ingestion based on concentrations for the area to be evaluated (residence, school). For calculating the public's potential inhalation exposure to lead through fugitive dust, the actual on-site soil lead concentration was used in the dispersion estimates.

Lead may be deposited at sensitive receptors in the form of fugitive dust and then ingested. Airborne concentrations of lead at nearby sensitive receptors resulting from project activities were calculated using the HARP software.

Soil concentrations at the maximum impacted residential receptor were calculated using a HARP default deposition rate of 0.02 meters per second (m/s). An exposure duration of 5 days per week was used in the analysis. Lead deposited onto bare soil was assumed to be evenly mixed into the first top centimeter. The school and residential receptors with the highest lead concentrations were analyzed in LeadSpread and modified ALM. The maximum impacted worker receptor was analyzed using the modified ALM only. The park receptor was not analyzed as blood lead concentration increases are typically based on long exposure periods (>1 day).

[105] *http://www.dtsc.ca.gov/AssessingRisk/leadspread8.cfm*

[106] *http://www.dtsc.ca.gov/AssessingRisk/upload/LeadSpread8_UserGuide.pdf*

[107] *Integated Exposure Uptake Biokinetic (IEUBK) model. USEPA. June 2009. http://www.epa.gov/superfund/lead/products.htm.*

4.0 HEALTH RISK ASSESSMENT RESULTS

The results of the HRA are provided below for Alternative 4 and Alternative 6. The impacts under both Alternatives are discussed by impact type (e.g., incremental cancer risk, chronic HI, and acute HI) and by receptor type (e.g., residential, student, worker, and park visitor). Cancer and chronic health impacts are based on exposure on an annual basis while acute health impacts are based on a maximum hourly exposure. The receptors analyzed in the HRA include residential receptors to the east and northwest of the Site and Edison High School to the northeast of the Site. Worker receptors representing employees at the school, fire station, or industrial uses to the west of the Site were also analyzed as were park visitor receptors to the north of the Site. As cancer and chronic health risk impacts are based on long-duration exposure times, receptors at which individuals may stay for long periods of time (>8 hours per day) were analyzed for cancer and chronic health risk impacts. These receptors include residential, school, workers and fire station uses. Acute risk impacts are based on short-duration exposure times (<1 hour); therefore, all receptors (residential, school, worker, park visitor) were analyzed for acute health risk impacts. A summary of the incremental cancer risk, chronic HI, and acute HI for the Alternative 4 HRA from HARP combined with the supplemental health risk calculations are provided in the table below.

Summary Table

Ascon Maximum Health Risk Impact Summary -- Unmitigated[a]

	Alterative 4	Alternative 6
MEI Receptor No.[b]	223	223
Cancer Risk (per million risk)	**3.2**	**8.8**
Threshold	1.0	1.0
Exceed Threshold[c]?	**Yes**	**Yes**
MEI Receptor No.[b]	223	222
Chronic Risk (HI)	**0.18**	**0.67**
Threshold	1	1
Exceed Threshold[c]?	No	No
MEI Receptor No.[b]	221	221
Acute Risk (HI)	**0.30**	**2.9**
Threshold	1	1
Exceed Threshold[c]?	No	**Yes**

[a] *Unmitigated values assume that emission control strategies would be implemented during remedial activities. It should be noted that emission control strategies are not considered mitigation; these measures are voluntary but enforceable.*
[b] *Receptor numbers and corresponding locations are shown in Figures 14 and 15.*
[c] *DTSC Threshold, See Section 2.2 of this HRA.*
Source: PCR Services Corporation, 2013.

4.1 ALTERNATIVE 4

As shown in the summary table above, the increase in chronic and acute non-cancer health impacts are below the applicable thresholds for all receptors. However, the incremental cancer risk at the MEI for Alternative 4 would exceed the DTSC threshold of significance. For each cancer, chronic and acute MEI shown in the summary table above, a detailed analysis was performed to identify the source and chemical contribution to the risk value, and results are discussed below. The cancer, chronic and acute risks at each MEI were further broken down to identify the chemical(s) and source(s) which most contributed to the risk and impact values.

4.1.1 Residential Receptors

Carcinogenic Risk

Based on upper bound toxicity values and exposure assumptions, the maximally exposed individual resident (MEIR) incremental cancer risk estimate is 3.2 in one million, as shown in **Table 72**, *Cancer, Chronic, and Acute Risk (Residential) – Alternative 4*. Health risk values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce potential effects. Nonetheless, the maximum incremental cancer risk at the residential receptor would exceed the threshold of one in one million even with incorporation of these control strategies. Thus, implementation of the RAP would result in a potentially significant impact to residential receptors with regard to cancer risk. Mitigation measures to reduce the potential effects are discussed below in this HRA in Section 6.0, Mitigation Measures.

It should be noted that health risk impact values presented in this HRA represent the combined impact from the various chemicals that could be emitted from implementation of the RAP. In order to identify the health risk impact contribution by each source and chemical under Alternative 4, receptors with the maximum impact were further analyzed to identify source and chemical contribution. The details of the analysis by chemical and source are listed in **Table 73**, *MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4*.

Cancer risk values presented in the tables in this section do not include supplemental health risk calculations provided in **Tables 69 and 70**. As mentioned previously, the supplemental health risk provided in **Tables 69 and 70** calculate cancer risk for chemicals which are not contained in the HARP database. As shown in these supplemental calculations, the incremental cancer risk contribution from chemicals not contained in HARP is negligible and will not contribute substantially to the overall health risk impact when added to the health risk values calculated within HARP.

The maximum impact for each exposure evaluation point (cancer, chronic and acute risk) may not occur at the same receptor due to varying toxicity factors, source location and wind direction. As discussed above, certain chemicals may not have a toxicity factor for long-duration exposure or short-duration exposure. In addition, chemicals would be emitted from different areas of the Site depending on the activity (Pit F, City parcel, haul roads) with varying emission rates. Therefore, maximum impacted receptors for each evaluation point may be found in different locations. Locations of the corresponding modeled MEIR are shown on **Figure 17**, *Maximum Exposed Individual Resident (MEIR) – Alternative 4*. The MEIR for the incremental cancer risk is located to the east of the Site. As shown in **Table 73**, DPM contributes approximately 99 percent of the total cancer risk. As shown in **Table 73**, approximately 54 percent of the cancer risk is due to Phase 3.2 (Cut and Fill to Top of Waste).

Chronic Risk

As shown in **Table 72**, the maximum chronic HI predicted for any residential receptor is 0.18. All other residential area chronic HI estimates are at or below 0.18. The chronic HI values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. The increase in emissions of COPCs with potential chronic non-cancer health effects from the implementation of the RAP under Alternative 4 is not predicted to result in chronic HIs that would exceed the threshold of 1.0 at any residential receptor. Therefore, implementation of the RAP would result in a less than significant impact to residential receptors with regard to chronic HI impacts.

It should be noted that chronic health impact values presented in this HRA represent the combined impact from the various chemicals by toxicological endpoint that would be emitted from implementation of the RAP. In order to identify the health risk contribution by each source and chemical under Alternative 4, receptors with the maximum HI estimates were further analyzed to identify source and chemical contribution. The details of the analysis by chemical are listed in **Table 73**. The details of the analysis by source are also listed in **Table 73**.

The maximum chronic HI is the sum of all hazard quotients from all the substances that affect the same organ system (e.g., respiratory system, cardiovascular system, reproductive system). COPCs can affect different target organ systems. For example, benzene does not have chronic impacts on the respiratory system, while DPM and arsenic have chronic impacts on the respiratory system. Since the maximum chronic HI impact is due to emissions of DPM and arsenic, the target organ system associated with the maximum residential chronic HI is the respiratory system. The details of the chronic HI analysis by target organ system are provided in **Table 73**.

As shown on **Figure 17**, the location of the modeled maximum residential chronic HI is to the east of the Site. As shown in **Table 73**, DPM and arsenic contributes approximately 60 and 32 percent of the total chronic HI, respectively. As shown in **Table 73**, approximately 50 percent of the chronic HI is due to Phase 3.2 (Cut and Fill to Top of Waste).

Although health risk estimates calculated above analyze exposure to heavy metals, lead exposure was further analyzed to determine potential impacts on child and fetal (pregnant adult) development. Potential blood lead concentrations in children and pregnant adults were estimated using the DTSC LeadSpread 8 model. Maximum concentrations of airborne lead were calculated using the HARP software. Results of this model show that the incremental increase in child and pregnant adult blood lead concentrations would be 0.000035 µg/dL for children and 0.00019 µg/dL for adults, well below the threshold of 1.0 µg/dL. Leadspread and ALM output results and modeled blood lead concentrations for the MEI child receptor and adult receptor are provided in **Table 74**, *Blood Lead Calculations (Child)* and **Table 75**, *Blood Lead Calculations (Adult)*.

Acute Risk

As shown in **Table 72**, the maximum acute HI predicted for any residential receptor is 0.30. All other residential areas acute HI estimates are at or below 0.30. The increase in emissions of COPCs with potential acute non-cancer health impact potential from the implementation of the RAP under Alternative 4 is not predicted to result in acute HIs that would exceed the threshold of 1.0 at any residential receptor. Therefore,

implementation of the RAP would result in a less than significant impact to residential receptors with regard to acute HI impacts.

The details of the acute HI analysis by target organ system and chemical are provided in **Table 73**. Locations of the corresponding modeled maximally impacted residential receptors are shown on **Figure 17**. The location of the maximum residential acute HI is to the east of the Site. As shown in **Table 73**, nickel emissions contribute 99.7 percent (~100 percent) of the total acute HI. As shown in **Table 73**, approximately 33 percent of the acute HI is due to emissions from the northern on-site haul route. The maximum acute HI impact occurs to the immune system. Acute HI impacts for all other organ systems would be lower in comparison

4.1.2 School Receptors

Carcinogenic Risk

Based on upper bound toxicity values and exposure assumptions, the maximally exposed individual student (MEIS) incremental cancer risk estimate is 0.90 in one million, as shown in **Table 76**, *Cancer, Chronic, and Acute Risk (School Student) – Alternative 4*. Health risk values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. The maximum cancer risk would not exceed the threshold of one in one million at any student receptor. Therefore, implementation of the RAP would result in a less than significant impact to student receptors with regard to cancer risk. As discussed previously, cancer risk values presented in this section do not include supplemental health risk calculations.

Locations of the corresponding modeled maximally exposed student receptors are shown on **Figure 18**, *Maximum Exposed Individual School Receptor (MEIS) – Alternative 4*. The MEIS for incremental cancer risk is located in the southwest corner of Edison High School property, a highly conservative location to evaluate long-term exposure since this location corresponds to the surface parking lot where students would typically not congregate for extended periods (school uses such as classrooms and athletic fields are located further away). The details of the analysis by chemical and source are listed in **Table 77**, *MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4*. As shown in **Table 77**, DPM contributes 99 percent of the total cancer risk. Also shown in **Table 77**, approximately 62 percent of the cancer risk is due to Phase 3.2 (Cut and Fill to Top of Waste).

Chronic Risk

As shown in **Tables 76 and 77**, the maximum chronic HI predicted for any student receptor is 0.047 for the respiratory system. Chronic HI impacts for other organ systems would be lower in comparison. All other student receptor chronic HI estimates are at or below 0.047. The increase in emissions of COPCs with potential chronic non-cancer health impact potential from the implementation of the RAP under Alternative 4 is not predicted to result in chronic HIs that would exceed the threshold of 1.0 at any student receptor. Therefore, implementation of the RAP would result in a less than significant impact to student receptors with regard to chronic HI impacts.

As shown on **Figure 18**, the location of the modeled maximum student chronic HI is to the northeast of the Site, at the same location of the predicted cancer maximum. As shown in **Table 77**, DPM and arsenic

contributes approximately 64 and 27 percent of the total chronic HI, respectively. Approximately 61 percent of the chronic HI is due to Phase 3.2 (Cut and Fill to Top of Waste), as shown in **Table 77.**

Acute Risk

As shown in **Table 76**, the maximum acute HI predicted for any student receptor is 0.11. All other student receptor acute HI estimates are at or below 0.11 and would not exceed the threshold of 1.0 at any student receptor. Therefore, implementation of the RAP would result in a less than significant impact to student receptors with regard to acute HI impacts.

Locations of the corresponding modeled maximally exposed student receptors are shown on **Figure 18**. The location of the maximum acute HI is to the northeast of the Site. The details of the acute HI analysis by chemical and source is provided in **Table 77**, and as shown therein, arsenic emissions contribute 99.9 percent (~100 percent) of the total acute HI. Also shown in **Table 77**, approximately 29 percent of the acute HI is due to emissions from Phase 8 (Cut and Fill City Parcel). The maximum acute non-cancer health impact is predicted to affect the immune system and acute HI impacts for all other organ systems would be lower in comparison

4.1.3 Worker Receptors

Carcinogenic Risk

General Worker

Based on upper bound toxicity values and exposure assumptions, the maximally exposed individual general worker (MEIW) incremental cancer risk estimate is 0.46 in one million, as shown in **Table 78**, *Cancer, Chronic and Acute Risk (Worker) - Alternative 4*. Health risk values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. The maximum modeled cancer risk at the maximally exposed worker receptor would not exceed the threshold of one in one million. Therefore, implementation of the RAP would result in a less than significant impact to worker receptors with regard to cancer risk. As discussed previously, cancer risk values presented in this section do not include supplemental health risk calculations.

Locations of the corresponding modeled maximally exposed worker receptors are shown on **Figure 19,** *Maximum Exposed Individual Worker (MEIW) – Alternative 4*. The MEIW for the incremental cancer risk is located to the west of the Site. The details of the analysis by chemical and source are listed in **Table 79**, *MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4*. As shown in **Table 79**, DPM contributes approximately 97 percent of the total cancer risk, and Phase 3.2 (Cut and Fill to Top of Waste) is responsible for approximately 54 percent of the cancer risk for the general worker.

School Worker

The maximally exposed individual school worker incremental cancer risk estimate is 0.24 in one million, as shown in **Table 80**, *Cancer, Chronic and Acute Risk (School Worker) - Alternative 4*. The maximum modeled cancer risk at the school worker receptor would not exceed the threshold of one in one million. Therefore, implementation of the RAP would result in a less than significant impact to worker receptors with regard to cancer risk.

Locations of the corresponding modeled maximally exposed worker receptors are shown on **Figure 19,** *Maximum Exposed Individual Worker (MEIW) – Alternative 4*. The details of the analysis by chemical and source are listed in **Table 81**, *MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4*.As shown in **Table 77**, DPM contributes approximately 99 percent of the total cancer risk. As shown in **Table 81**, approximately 61 percent of the cancer risk is due to Phase 3.2 (Cut and Fill to Top of Waste) for the school worker and general worker.

Fire Station Worker

The fire station worker was analyzed as a separate worker receptor and is located to the north of the Site. Cancer risk was evaluated for the fire station as individuals may stay at this location for extended periods of time (such as 24-hour shifts). Based on upper confidence limit potency values, the fire station receptor incremental cancer risk estimate is 0.32 in one million, as shown in **Table 82**, *Cancer, Chronic and Acute Risk (Fire Station and Park) - Alternative 4*.

The location of the corresponding modeled maximally exposed fire station receptor is shown on **Figure 20**, *Maximum Exposed Individual Worker (Fire Station) – Alternative* 4. As shown in **Table 83**, *MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4*, DPM contributes approximately 98 percent of the total cancer risk. Also shown in **Table 83**, approximately 61 percent of the risk at the fire station receptor is due to Phase 3.2 (Cut and Fill to Top of Waste).

Chronic Risk

General Worker

As shown in **Table 78**, the maximum chronic HI predicted for any general worker receptor (excluding the fire station and school worker, which is discussed separately below) is 0.087. All other worker receptor chronic HI estimates are at or below 0.087. The chronic HI values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. The increase in emissions of COPCs with potential chronic non-cancer health impact potential from the implementation of the RAP under Alternative 4 is not predicted to result in chronic HIs that would exceed the threshold of 1.0 at any worker receptor. Therefore, implementation of the RAP would result in a less than significant impact to worker receptors with regard to chronic HI impacts.

As shown on **Figure 19**, the location of the modeled maximum worker chronic HI is to the west of the Site. The details of the analysis by chemical and source are listed in **Table 79**. As shown in **Table 79**, DPM and arsenic contributes to 65 and 27 percent the total chronic HI, respectively. As shown in **Table 79**, approximately 45 percent of the chronic HI is due to Phase 3.2 (Cut and Fill to Top of Waste). The maximum general worker chronic HI impact is predicted to affect the respiratory system.

School Worker

As shown in **Table 80**, the maximum chronic HI predicted for the school worker receptor is 0.046. The increase in emissions of COPCs with potential chronic non-cancer health impacts from the implementation of Alternative 4 is not predicted to result in chronic HIs that would exceed the threshold of 1.0 at any worker receptor. Therefore, implementation of Alternative 4 would result in a less than significant impact to school worker receptors with regard to chronic HI impacts.

As shown on **Figure 19**, the location of the modeled maximum worker chronic HI is to the northeast of the Site. The details of the analysis by chemical and source are listed in **Table 81**. The maximum school worker chronic HI impact is predicted to affect the respiratory system. As shown in **Table 81**, DPM and arsenic contributes to 66 and 25 percent of the total chronic HI, respectively. As shown in **Table 81**, approximately 60 percent of the chronic HI is due to Phase 3.2 (Cut and Fill to Top of Waste).

Fire Station Worker

Chronic impacts were evaluated for the fire station as individuals may stay at this location for extended periods of time. The modeled maximum chronic HI at the fire station receptor is 0.061, associated with the respiratory system, as shown in **Tables 82 and 83**. The maximum chronic HI at the fire station receptor would not exceed the threshold of 1.0 and implementation of the RAP would result in a less than significant impact to fire station receptors with regard to chronic impacts. The location of the corresponding modeled maximally exposed fire station receptor is shown on **Figure 20**. As shown in **Table 83**, DPM and arsenic contributes approximately 66 and 26 percent of the total chronic HI, respectively, and approximately 60 percent of the impact at the fire station receptor is due to Phase 3.2 (Cut and Fill to Top of Waste).

Acute Risk

General Worker

As shown in **Table 78,** the modeled maximum acute HI predicted for any worker receptor (excluding the fire station and school worker, which is discussed separately below) is 0.39. The increase in emissions of COPCs with potential acute non-cancer health impact potential from the implementation of the RAP under Alternative 4 is not predicted to result in acute HIs that would exceed the threshold of 1.0. Therefore, implementation of the RAP would result in a less than significant impact to worker receptors with regard to acute HI impacts.

Locations of the corresponding modeled maximally exposed worker receptors are shown on **Figure 19**. The details of the acute HI analysis by target organ system are provided in **Tables 79**. The location of the modeled maximum worker acute HI is to the west of the Site. As shown in **Table 79**, nickel emissions contribute to 99.9 percent (~100 percent) of the total acute HI. As also shown in **Table 79**, approximately 74 percent of the acute HI is due to emissions from Phase 9 (Cut and Fill to Top of Waste [SCOC Site]). The maximum general worker acute HI impact is predicted to affect the immune system and acute HI impacts for all other organ systems would be lower in comparison.

School Worker

As shown in **Table 80**, the modeled maximum acute HI predicted for the school worker receptor is 0.11. The increase in emissions of COPCs with potential acute non-cancer health impacts from the implementation of the RAP under Alternative 4 is not predicted to result in acute HIs that would exceed the threshold of 1.0. Therefore, implementation of the RAP would result in a less than significant impact to school worker receptors with regard to acute HI impacts.

Locations of the corresponding modeled maximally exposed worker receptors are shown on **Figure 18**. The details of the acute HI analysis by target organ system are provided in **Table 81.** As shown in **Table 81**, nickel emissions contribute to 99.9 percent (~100 percent) of the total acute HI. As also shown in **Table 81**,

approximately 29 percent of the acute HI is due to emissions from Phase 8 (Cut and Fill to Top of Waste [City Parcel]). The maximum general worker acute HI impact will affect the immune system.

Fire Station Worker

Acute impacts were evaluated for the fire station as individuals may stay at this location. The modeled maximum acute HI at the fire station receptor is 0.14, as shown in **Table 82** and the location of the fire station receptor is shown on **Figure 20**. The maximum acute HI at the fire station receptor would not exceed the threshold of 1.0. Therefore, implementation of the RAP would result in a less than significant impact to fire station receptors with regard to acute impacts. As shown in **Table 83**, nickel contributes approximately 99.3 percent (~100 percent) of the total acute HI. Since the maximum acute HI impact is due to emissions of nickel, the target organ system associated with the acute HI at the fire station receptor is the immune system. Acute HI impacts for all other organ systems would be lower. Also shown in **Table 83**, approximately 39 percent of the impact at the fire station receptor is due to Phase 8 (Cut and Fill City Parcel).

4.1.4 Park Visitor Receptors

As shown in **Table 82**, the modeled maximum acute HI at the maximally exposed individual park visitor (MEIPV) is 0.26. The increase in emissions of COPCs with potential acute non-cancer health impact potential from the implementation of the RAP under Alternative 4 is not predicted to result in acute HIs that would exceed the threshold of 1.0 for any park visitor location. Therefore, implementation of the RAP would result in a less than significant impact to park visitor receptors with regard to acute HI impacts.

The location of the corresponding modeled maximally exposed park visitor receptor is shown on **Figure 21**, *Maximum Exposed Individual (Park) – Alternative 4*. The location of the maximally exposed park visitor is to the north of the Site. The details of the acute HI analysis by target organ system are provided in **Table 84**. As shown in **Table 84**, *MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 4*, nickel emissions contribute 99.9 percent (~100 percent) of the total acute HI. As shown in **Table 84**, approximately 22 percent of the acute HI is due to emissions from Phase 9 (Cut and Fill to Top of Waste [SCOC Site]) and 20 percent from Phase 8 (Cut and Fill City Parcel). Overlap of Phase 8 and 9 are not likely to occur on the same day. However, this scenario represents the worst-case hypothetical day and results in a conservative acute HI impact. The maximum park visitor acute HI impact would affect the immune system.

4.2 ALTERNATIVE 6

As shown in the summary table above, the incremental increase in cancer risk and acute non-cancer health impacts at the MEI for Alternative 6 would exceed the applicable DTSC thresholds of significance. The increase in chronic non-cancer health impacts are below the applicable thresholds for all receptors. For each cancer, chronic and acute MEI shown in the summary table above, a detailed analysis was performed to identify the source and chemical contribution to the risk value, and results are discussed below. The cancer, chronic and acute risk at each MEI was further broken down to identify the chemical(s) and source(s) which most contributes to the risk and impact values.

4.2.1 Residential Receptors

Carcinogenic Risk

Based on upper bound toxicity values and exposure assumptions, the MEIR incremental life-time cancer incidence risk of 8.8 in one million, as shown in **Table 85**, *Cancer, Chronic and Acute Risk (Residential) - Alternative 6*. Health risk impact values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. Nonetheless, the maximum cancer risk at the residential receptor would exceed the threshold of one in one million even with incorporation of these control strategies. Therefore, implementation of Alternative 6 would result in a potentially significant impact to residential receptors with regard to cancer risk. Mitigation measures to reduce the impact are discussed below in this HRA in Section 6.0, Mitigation Measures.

It should be noted that health risk impact values presented in this HRA represent the combined potential effects from the various chemicals that would be emitted from implementation of Alternative 6. In order to identify the health risk impact contribution by each source and chemical under Alternative 6, receptors with the maximum impact were further analyzed to identify source and chemical contribution. The details of the analysis by chemical and source are listed in **Table 86**, *MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6*. As discussed previously, cancer risk values presented in this section do not include supplemental health risk calculations.

The maximum impact for each exposure evaluation point (cancer, chronic and acute risk) may not occur at the same receptor due to varying toxicity factors, source location and wind direction. As discussed above, certain chemicals may not have a toxicity factor for long-duration exposure or short-duration exposure. In addition, chemicals would be emitted from different areas of the Site depending on the activity (Pit F, City parcel, haul roads) with varying emission rates. Thus, maximum impacted receptors for each evaluation point may be found in different locations. Locations of the corresponding maximally impacted MEIR are shown on **Figure 22**, *Maximum Exposed Individual Resident (MEIR) – Alternative 6*. The MEIR for the incremental cancer risk is located to the east of the Site. As shown in **Table 86**, DPM contributes approximately 95 percent of the total cancer risk. As shown in **Table 86**, approximately 40 percent of the cancer risk is due to Phase 4B (Excavate East Parcel).

Chronic Risk

As shown in **Table 85**, the maximum chronic HI predicted for any residential receptor is 0.67. All other residential receptor chronic HIs were modeled at or below 0.67. The chronic HI impact values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce potential effects. The increase in emissions of COPCs with chronic non-cancer health impact potential from the implementation of Alternative 6 is not predicted to result in residential chronic HIs that would exceed the threshold of 1.0 with incorporation of control strategies. Therefore, implementation of Alternative 6 would result in a less than significant impact to residential receptors with regard to chronic HI impacts.

As shown on **Figure 22**, the location of the maximum residential chronic HI is located to the east of the Site. The details of the chronic HI analysis by target organ system are provided in **Table 86**. As shown in **Table 86**, arsenic and DPM contributes approximately 53 and 41 percent of the total chronic HI, respectively. Also shown in **Table 86**, approximately 18 percent of the chronic HI is due to the northern on-site haul road,

approximately 15 percent is due to DPM emissions from Phase 4B (Excavate East Parcel), and approximately 15 percent is due to fugitive dust emissions from Phase 4B (Excavate East Parcel).

Although health impacts calculated above analyze exposure to heavy metals, lead exposure was further analyzed to determine impacts on child and fetal (pregnant adult) development. Potential blood lead concentrations in children and pregnant adults were analyzed using the DTSC LeadSpread 8 model. Maximum concentrations of airborne lead were calculated using the HARP software. Results of this model show that the incremental increase in child and pregnant adult blood lead concentrations would be 0.000035 µg/dL, well below the threshold of 1.0 µg/dL. Details of the analysis and blood lead concentrations for the MEI child receptor and adult receptor are provided in **Table 74** and **Table 75**.

Acute Risk

As shown in **Table 85**, the maximum acute HI predicted for any residential receptor at the MEIR is 2.9. The increase in emissions of COPCs with acute non-cancer health impact potential from the implementation of Alternative 6 is predicted to result in acute HIs that would exceed the threshold of 1.0 for approximately one quarter of the 234 residential receptor points modeled. Therefore, implementation of Alternative 6 would result in a significant impact to residential receptors with regard to acute HI impacts.

Locations of the corresponding maximally impacted residential receptors are shown on **Figure 22**. The details of the acute HI analysis by target organ system are provided in **Table 86**. The location of the maximum residential acute HI is to the east of the Site. As shown in **Table 86**, chloroform and arsenic emissions contribute approximately 92 and 7 percent of the total acute HI, respectively. As shown in **Table 86**, approximately 55 percent of the acute HI is due to emissions from the northern on-site haul route.

4.2.2 School Receptors

Carcinogenic Risk

Based on upper bound toxicity values and exposure assumptions, the health risk estimate modeled for the MEIS resulted in an incremental life-time cancer risk of 2.7 in one million, as shown in **Table 87**, *Cancer, Chronic and Acute Risk (School Student) - Alternative 6*. The maximum cancer risk at the student receptor would exceed the threshold of one in one million even with incorporation of these control strategies. Therefore, implementation of Alternative 6 would result in a significant impact to student receptors with regard to cancer risk. Mitigation measures to further reduce the impact are discussed below in this HRA in Section 6.0, Mitigation Measures. As discussed previously, cancer risk values presented in this section do not include supplemental health risk calculations.

Locations of the corresponding maximally impacted student receptors are shown on **Figure 23**, *Maximum Exposed Individual School Receptor (MEIS) – Alternative 6*. The details of the analysis by chemical and source are listed in **Table 88**, *MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6*.The MEIS for the incremental cancer risk is located to the northeast of the Site. As shown in **Table 88**, DPM contributes approximately 95 percent of the total cancer risk. As shown in **Table 88**, approximately 20 percent of the cancer risk is due to Phase 4A (Excavate North Parcel) and approximately 18 percent is due to Phase 3 (Excavate Lagoons 3, 4, and 5).

Chronic Risk

As shown in **Tables 87 and 88**, the maximum chronic HI predicted for any student receptor is 0.16. All other student receptor chronic HIs modeled would be at or below 0.16. Thus, implementation of Alternative 6 would result in a less than significant impact to student receptors with regard to chronic HI impacts.

As shown on **Figure 23**, the location of the maximum student chronic HI is to the northeast of the Site. The details of the analysis by chemical and source are listed in **Table 88**. As shown in **Table 88**, DPM and arsenic contributes approximately 52 and 42 percent of the total chronic HI, respectively. Approximately 11 percent of the chronic HI is due to Phase 4A (Excavate North Parcel) and approximately 10 percent is due to Phase 3 (Excavate Lagoons 3, 4, and 5), as detailed in **Table 88**. The maximum student chronic HI impact will affect the respiratory system and chronic HI impacts for all other organ systems would be lower in comparison.

Acute Risk

As shown in **Table 87**, the maximum acute HI predicted for any student receptor is 0.85. All other student receptor acute HIs modeled would be at or below 0.85. The increase in emissions of COPCs with acute non-cancer health impact potential from the implementation of Alternative 6 is not predicted to result in acute HIs that would exceed the threshold of 1.0 at any student receptor. Therefore, implementation of Alternative 6 would result in a less than significant impact to student receptors with regard to acute HI impacts.

Locations of the corresponding maximally impacted student receptors are shown on **Figure 23**. The location of the maximum acute HI for a student is to the northeast of the Site. The details of the acute HI analysis by target organ system are provided in **Table 88**, and as shown therein, chloroform and arsenic emissions contribute approximately 92 and 7 percent of the total maximum acute HI, respectively. The maximum HI is predicted to effect the developmental endpoint. The developmental health effect endpoint is defined as health effects which may result in growth retardation or altered behavior in children.[108] As shown in **Table 88**, approximately 20 percent of the acute HI is due to emissions from the northern stockpile loading area and approximately 18 percent is due to the northern on-site haul road.

4.2.3 Worker Receptors

Carcinogenic Risk

General Worker

Based on upper bound toxicity values and exposure assumptions, the MEIW for the general worker (excluding the fire station and school worker, which is discussed separately below) incremental life-time cancer incidence risk estimate would be 1.4 in one million, as shown in **Table 89,** *Cancer, Chronic and Acute Risk (Worker) Alternative 6*. Health risk impact values calculated for this HRA take into account control strategies that would be implemented to minimize and reduce impacts. The maximum cancer risk at the worker receptor would exceed the threshold of one in one million even with incorporation of these control strategies. Therefore, implementation of Alternative 6 would result in a significant impact to worker receptors with regard to cancer risk. Mitigation measures to further reduce the impact are discussed below

[108] *Air Toxics Hot Spots Program Risk Assessment Guidelines. Part 1: Determination of Acute Reference Exposure Levels for Airborne Toxicants. Office of Environmental Health and Hazard Assessment. March 1999.*

in this HRA in Section 6.0, Mitigation Measures. As discussed previously, cancer risk values presented in this section do not include supplemental health risk calculations.

Locations of the corresponding maximally impacted worker receptors are shown on **Figure 24**, *Maximum Exposed Individual Worker (MEIW) – Alternative 6*. The MEIW for incremental cancer risk is located to the west of the Site. The details of the analysis by source are also listed in **Table 90**. As shown in **Table 90**, DPM contributes approximately 93 percent of the total worker cancer risk, and approximately 45 percent of the cancer risk at that receptor is due to Phase 4D (Excavate South and West Parcel).

School Worker

Based on upper bound toxicity values and exposure assumptions, the maximum impacted school worker receptor incremental life-time cancer incidence risk was modeled to be 0.71 in one million, as shown in **Table 91,** *Cancer, Chronic and Acute Risk (School Worker) Alternative 6*. Thus, impacts would be less than significant with respect to cancer risk at the school worker locations.

Locations of the corresponding maximally impacted school worker receptors are in the same location as the student receptor shown on **Figure 23**. The details of the analysis by source are also listed in **Table 92**, *MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source – Alternative 6*. As shown in **Table 92**, DPM contributes approximately 95 percent of the total cancer risk; approximately 20 percent of the cancer risk is due to Phase 4A (Excavate Northern Parcel) and approximately 18 percent is due to Phase 3 (Excavate Lagoons 3, 4, and 5).

Fire Station Worker

The fire station worker was analyzed as a separate worker receptor and is located to the north of the Site. Cancer risk was evaluated for the fire station as individuals may stay at this location for extended periods of time. Based on upper confidence limit potency values, the fire station receptor incremental life-time cancer incidence risk was modeled to be 0.91 in one million, as shown in **Table 93,** *Cancer, Chronic and Acute Risk (Fire Station and Park) – Alternative 6,* and risks would be less than significant.

The location of the corresponding maximally impacted fire station receptor is shown on **Figure 25**, *Maximum Exposed Individual Worker (Fire Station) – Alternative 6*. As shown in **Table 94**, *MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source – Alternative 6,* DPM contributes approximately 95 percent of the total cancer risk. As shown in **Table 94**, approximately 23 percent of the risk due to Phase 4A (Excavate North Parcel) and approximately 19 percent due to Phase 3 (Excavate Lagoons 3, 4, and 5).

Chronic Risk

General Worker

As shown in **Table 89**, the maximum chronic HI predicted for general worker receptors (excluding the fire station and school worker, which is discussed separately below) is 0.42, and chronic HIs were modeled at or below 0.42 for any other general worker location. Because the increase in emissions of COPCs with chronic non-cancer health impact potential from the implementation of Alternative 6 is not predicted to result in

chronic HIs that would exceed the threshold of 1.0 at any worker receptor, implementation of Alternative 6 would result in a less than significant impact to general worker receptors with regard to chronic HI impacts.

As shown on **Figure 24**, the location of the maximum worker chronic HI is to the west of the Site. The details of the analysis by chemical and source are listed in **Table 90**. As shown in **Table 90**, the respiratory endpoint would experience the maximum HI with arsenic and DPM contributing approximately 56 and 38 percent of the total chronic HI, respectively. Also shown in **Table 90**, approximately 34 percent of the chronic HI is due to emissions from the southern on-site haul road and approximately 18 percent is due to DPM emissions from Phase 4D (Excavate Central Parcel).

School Worker

As shown in **Table 91**, the maximum chronic HI predicted for the school worker receptor is 0.16. The increase in emissions of COPCs with chronic non-cancer health impact potential from the implementation of Alternative 6 is not predicted to result in chronic HIs that would exceed the threshold of 1.0 at any school worker receptor; ttherefore, implementation of Alternative 6 would result in a less than significant impact to worker receptors with regard to chronic HI impacts.

As shown on Figure 23, the location of the maximum school worker chronic HI is to the northwest of the Site. The details of the analysis by chemical and source are listed in **Table 92**. As shown in **Table 92**, arsenic and DPM contributes to 40 and 54 percent the total chronic HI, respectively Phase 4A (Excavate Northern Parcel) and Phase 3 (Excavate Lagoons 3, 4, and 5) contribute approximately 11 and 10 percent of the chronic HI, respectively.

Fire Station Worker

Chronic impacts were evaluated for the fire station as individuals may stay at this location for extended periods of time. The maximum chronic HI at the fire station receptor is 0.20, as shown in **Table 93**. Therefore, implementation of Alternative 6 would result in a less than significant impact to fire station receptors with regard to chronic impacts.

The location of the corresponding maximally impacted fire station receptor is shown on **Figure 25**. As shown in **Table 94**, arsenic and DPM contributes approximately 40 and 54 percent the total chronic HI, respectively. Also shown in **Table 94**, approximately 13 percent of the chronic HI is due to emissions from the Phase 4A (Excavate North Parcel), and approximately 11 percent is due to DPM emissions from Phase 3 (Lagoons 4-5 removal). Since the maximum chronic HI impact is due to emissions of DPM and arsenic, the target organ system associated with the chronic HI at the fire station receptor is the respiratory system. Chronic HI impacts for all other organ systems would be lower in comparison.

Acute Risk

General Worker

As shown in **Table 89**, the maximum acute HI predicted for any worker receptor (excluding the fire station and school worker, which is discussed separately below) is 2.9. The increase in emissions of COPCs with acute non-cancer health impact potential from the implementation of Alternative 6 is predicted to result in

acute HIs that would exceed the threshold of 1.0. Therefore, implementation of Alternative 6 would result in a significant impact to worker receptors with regard to acute HI impacts.

Locations of the corresponding maximally impacted worker receptors are shown on **Figure 24**. The location of the maximum worker acute HI is to the west of the Site. The details of the acute HI analysis by target organ system are provided in **Table 90.** As shown in **Table 90**, chloroform and arsenic emissions contribute to 93 and 6 percent of the total acute HI, respectively, and approximately 47 percent of the acute HI is due to emissions from Phase 7 (SCOC site).

School Worker

As shown in **Table 91**, the maximum acute HI predicted for the school worker receptor is 0.85. Because the increase in emissions of COPCs with acute non-cancer health impact potential from the implementation of Alternative 6 is not predicted to result in acute HIs that would exceed the threshold of 1.0 at any school worker receptor, implementation of Alternative 6 would result in a less than significant impact to school workers with regard to acute HI impacts.

Locations of the corresponding maximally impacted school worker receptors are shown on **Figure 23**. As shown in **Table 92**, chloroform and arsenic emissions contribute to 92 and 7 percent of the total acute HI, respectively. As shown in **Table 92**, approximately 20 percent of the acute HI is due to emissions from the northern stockpile loading area and approximately 18 percent is due to DPM emissions from the northern haul road.

Fire Station Worker

The maximum acute HI at the fire station receptor is 1.0, as shown in **Table 93**. The maximum acute HI at the fire station receptor would be approximately equal to the threshold of 1.0. Therefore, implementation of Alternative 6 would result in a potentially significant impact to fire station receptors with regard to acute impacts. As shown in **Table 94**, chloroform emissions contribute approximately 92 percent of the total acute HI; approximately 21 percent of the acute HI is due to emissions from the northern stockpile loading area and approximately 18 percent is due to the northern haul road.

4.2.4 Park Visitor Receptors

As shown in **Tables 93 and 95**, *MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 6*, the maximum acute HI at the MEIPV receptor is 2.1 for both the central nervous system and developmental endpoints, and 2.0 for the reproductive endpoint. The reproductive health effect endpoint is defined as health effects which may result in fetotoxicity (fetus), intrauterine growth retardation (fetus), or preimplantation loss.[109] Because, the increase in emissions of COPCs with acute non-cancer health impact potential from the implementation of Alternative 6 is predicted to result in acute HIs that would exceed the threshold of 1.0 even with incorporation of control strategies, implementation of Alternative 6 would result in a significant impact to park visitor receptors.

[109] *Air Toxics Hot Spots Program Risk Assessment Guidelines. Part 1: Determination of Acute Reference Exposure Levels for Airborne Toxicants. Office of Environmental Health and Hazard Assessment. March 1999.*

The location of the corresponding maximally impacted park visitor receptor is shown on **Figure 26**, *Maximum Exposed Individual (Park) – Alternative 6*. The location of the maximum park visitor is to the north of the Site. The details of the acute HI analysis by target organ system are provided in **Table 95**. As shown in **Table 95**, chloroform and arsenic emissions contribute approximately 93 and 7 percent of the total acute HI, respectively. As shown in **Table 95**, approximately 43 percent of the acute HI is due to emissions from the northern on-site haul route.

5.0 UNCERTAINTY

The process of assessing health risks and impacts includes a degree of uncertainty. The level of uncertainty is dependent on the availability of data and the extent to which assumptions are relied upon in cases where the data are incomplete or unknown. All HRAs, including this HRA, rely upon scientific studies in order to reduce the level of uncertainty; however, it not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice to err on the side of health protection in order to avoid underestimating or underreporting the risk to the public. As discussed earlier, this HRA followed the standard practice of erring on the side of health protection in cases where assumptions were relied upon.

With regard to uncertainty in health risk calculations, OEHHA provided a discussion of uncertainty in the Air Toxics Hot Spots Program Guidance Manual (2003).

> *There is a great deal of uncertainty associated with the process of risk assessment. The uncertainty arises from lack of data in many areas necessitating the use of assumptions. The assumptions used in these guidelines are designed to err on the side of health protection in order to avoid underestimation of risk to the public. Sources of uncertainty, which may either overestimate or underestimate risk, include: 1) extrapolation of toxicity data in animals to humans; 2) uncertainty in the estimation of emissions; 3) uncertainty in the air dispersion models; and 4) uncertainty in the exposure estimates. Uncertainty may be defined as what is not known and may be reduced with further scientific studies. In addition to uncertainty, there is a natural range or variability in the human population in such properties as height, weight, and susceptibility to chemical toxicants. Scientific studies with representative individuals and large enough sample size can characterize this variability.*
>
> *Interactive effects of exposure to more than one carcinogen or toxicant are also not necessarily quantified in the HRA. Cancer risks from all emitted carcinogens are typically added, and hazard quotients for substances impacting the same target organ system are added to determine the hazard index (HI). Many examples of additivity and synergism (interactive effects greater than additive) are known. For substances that act synergistically, the HRA could underestimate the risks. Some substances may have antagonistic effects (lessen the toxic effects produced by another substance). For substances that act antagonistically, the HRA could overestimate the risks.*
>
> *Other sources of uncertainty, which may underestimate or overestimate risk, can be found in exposure estimates where little or no data are available (e.g., soil half-life and dermal penetration of some substances from a soil matrix).*
>
> *The differences among species and within human populations usually cannot be easily quantified and incorporated into risk assessments. Factors including metabolism, target site sensitivity, diet, immunological responses, and genetics may influence the response to toxicants. The human population is much more diverse both genetically and culturally (e.g., lifestyle, diet) than inbred experimental animals. The intraspecies variability among humans is expected to be much greater than in laboratory animals. Adjustment for tumors at multiple sites induced by some carcinogens could result in a higher potency. Other uncertainties arise 1) in the assumptions underlying the dose-response model used, and 2) in extrapolating from large experimental doses, where, for example, other toxic effects may compromise the assessment of carcinogenic potential, to usually much smaller environmental doses.*

Also, only single tumor sites induced by a substance are usually considered. When epidemiological data are used to generate a carcinogenic potency, less uncertainty is involved in the extrapolation from workplace exposures to environmental exposures. However, children, a subpopulation whose hematological, nervous, endocrine, and immune systems, for example, are still developing and who may be more sensitive to the effects of carcinogens on their developing systems, are not included in the worker population and risk estimates based on occupational epidemiological data are more uncertain for children than adults. Finally, the quantification of each uncertainty applied in the estimate of cancer potency is itself uncertain.

Thus, risk estimates generated by an HRA should not be interpreted as the expected rates of disease in the exposed population but rather as estimates of potential risk, based on current knowledge and a number of assumptions. Additionally, the uncertainty factors integrated within the estimates of noncancer RELs are meant to err on the side of public health protection in order to avoid underestimation of risk. Risk assessment is best used as a ruler to compare one source with another and to prioritize concerns. Consistent approaches to risk assessment are necessary to fulfill this function.

The sources of uncertainty, as they relate to the project, are described in greater detail below. In addition to uncertainty, there exists "a natural range or variability in the human population in such properties as height, weight, and susceptibility to chemical toxicants."[110] As mentioned previously, it is typical to err on the side of health protection by assessing risk on the most sensitive populations, such as children and the elderly. Although HRA's are typically not performed specifically for elderly individuals, toxicity factors derived by OEHHA take into account particularly sensitive individuals including the elderly and pregnant women. [111]

Some examples of uncertainty or overestimation may include:

- Residential receptor exposure duration: The HRA assumes residents would be exposed to project-related average annual concentrations 350 days per year. The exposure duration does not take into account periods of time when residents leave the house (e.g. for work, shopping, school, etc.), nor whether that time results in higher or lower exposure estimates for the resident. In addition, the exposure duration does not take into account time spent indoors or outdoors.
- Emissions estimation: Emissions from diesel powered equipment were assumed to be running continuously during a 9-hour workday. While most equipment may run continuously throughout a workday, some equipment may sit idle or be used for only a few hours per day. The HRA assumes a worst-case scenario where all equipment would be running during the workday, generating diesel particulate emissions. This approach may over-predict emissions.
- Default parameters in emission equations: Equations used to calculate emissions developed by the USEPA are routinely assigned a quality rating from "A", excellent, to "E", poor and the USEPA states these quality ratings are retained throughout the emission estimation process only if Site-specific conditions are within the range of parameters applicable to the conditions experienced during development of the emission factors.[112] The use of default values when Site-specific data are not

[110] *Office of Environmental Health and Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (August 2003) 1-4.*

[111] *Ibid.*

[112] *United States Environmental Protection Agency, Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, 1995, http://www.epa.gov/ttn/chief/ap42/c00s00.pdf, Accessed July 15, 2013.*

available degrades the quality rating. Equations used in this HRA to estimate dust emissions from unpaved roads on-site were developed by the USEPA and assigned a quality rating of "B", meaning "above average". It was not possible to collect Site-specific data for roads which are not yet built, and default values for silt and moisture content, for example, were used. The USEPA acknowledges "[t]he quality rating should be downgraded two letters when the default moisture content value is used."[113]

- Soil pollutant concentrations: Sampling methods have inherent limits in the ability to detect the presence of a compound at low concentrations in a sample, and an applicable lower detection limit is established and reported for every test performed. Certain chemicals have elevated detection limits for various reasons such as matrix interference. For chemicals with less than five detections, the maximum detected value was used as a representative concentration. This may result in an over-prediction of emissions. Also for this HRA non-detect data were excluded whose detection limit is higher than the applicable screening level for that chemical. This may result in an under-or over-prediction of emissions, depending on the situation.
- Soil pollutant distribution: Concentrations of most COPCs in soil were assumed to be uniform throughout the site. In certain cases, the DTSC determined sufficient data existed to limit the physical extent of the presence of a COPC. Such a determination was made for benzidine, which is believed to be limited to certain areas of the site. In many cases, when there were less than five detections of a chemical, even though the few detections may be accompanied by hundreds of non-detects, the maximum detection was yet assigned to be the uniform concentration throughout the Site. This would result in an overestimate of emissions.
- Soil half-life: Certain chemicals are subject to breakdown over time or may have been released to the atmosphere through volatilization. Much of the sampling data for the Site was collected more than 15 years ago. As a conservative assumption, the analysis did not take into account half-life of chemicals or depletion through volatilization.
- Toxicity data: Toxicity data used for health risk assessment calculations were based on extrapolation of toxicity data in animals to humans. In addition, interactive effects of exposure to multiple carcinogens were not quantified in the HRA. Instead, cancer risk was added across all toxic compounds. Substances which act synergistically with other compounds may not be properly accounted for in the calculations. The opposite is also true where chemicals act antagonistically against other chemicals. Also, the occurrence of chemicals at the Site without available toxicity data necessitated the use of surrogate chemicals (i.e., similar chemicals with known toxicity).
- Dispersion modeling parameters: The AERMOD dispersion model is able to account for dust deposition while in transport through the air which would deplete the plume (lower concentration). As a dust plume travels from the source to the receptor, heavier dust particles may drop out of the plume resulting in lower concentrations for receptors located farther away from the source. As a worst-case scenario, the dispersion modeling did not account for plume depletion due to deposition as sensitive receptors were located relatively close to the dust generating activities.
- This HRA analysis used the latest default regulatory dispersion model, AERMOD, as recommended by SCAQMD and USEPA. Dispersion models have historically been unable to predict concentrations for a particular time and place with great reliability for short averaging times. According to EPA's Guideline on Air Quality Models (40 CFR 51 Appendix W):

[113] *Ibid.*

1. Models are more reliable for estimating longer time-averaged concentrations than for estimating short-term concentrations at specific locations;

2. The models are reasonably reliable in estimating the magnitude of the highest concentrations occurring at a certain time and location. For example, errors in highest estimated concentrations of ± 10 to 40 percent are found to be typical, that is, certainly well within the often-quoted factor of-two accuracy that has been recognized for these models. However, predicted short-term concentrations for specific locations typically would correlate poorly with actual observed concentrations; and

3. The meteorological data from the closest SCAQMD monitoring station may not be the best representation of localized conditions. In addition, regardless of the data set, the AERMOD model is set to bypasses calm wind hours (zero wind speed) and does not account for chemical reactions in the atmosphere. Zero wind speed or calm wind hours are hours in which no wind speed is recorded by meteorological monitors. Zero wind speed analyzed using the AERMOD model would result in less dispersion of chemicals offsite and higher concentrations. However, given the short travel duration, a chemical could be considered inert (no chemical reaction) during travel.

With the number of uncertainties included in the health impact calculations, risk should be viewed as a probability of potential risk and not as expected impacts. However, the health risk calculations account for uncertainties by erring on the side of safety with conservative assumptions (overestimates). Health risk impacts are also developed for comparison of one source with another (power plant, refinery, etc.).

6.0 MITIGATION MEASURES

6.1 ALTERNATIVE 4

As discussed above in Section 4.0, under Alternative 4, the modeled maximum incremental cancer risk estimate at the MEIR would exceed the threshold of one in one million even with incorporation of control strategies. Therefore, implementation of the RAP under Alternative 4 would result in a potentially significant impact to residential receptors with regard to cancer risk.

Emissions of DPM contribute approximately 99 percent of the total cancer risk. However, considering that diesel particulate filters (DPFs) can reduce off-road DPM emissions by at least 85 percent, the use of DPFs can reduce DPM emissions from on-site heavy equipment sufficient to reduce the maximum incremental cancer risk to less than one in one million at off-site sensitive receptors. With the use of DPFs on select equipment, the maximum incremental cancer risk estimates would be reduced to as much as approximately 0.84 in one million. With the DPF mitigation in place, DPM would contribute approximately 99 percent of the risk. Thus, with the use of DPFs, impacts could be reduced to a less than significant level.

Mitigation Measure: CARB certified Level 3 diesel particulate filter (DPF) shall be installed on some of the on-site off-road equipment as needed so that a minimum of 85 percent of the annual horsepower-hours assumed in the performance of the HRA are controlled. Horsepower-hours are calculated based on equipment engine horsepower, average load factor under typical conditions and anticipated hours of operation on an annual basis. Diesel particulate filters shall reduce off-road diesel particulate matter (DPM) emissions from each piece of off-road equipment by at least 85 percent. Equipment which needs servicing (breaks down) may be replaced with Tier 3 on a temporary basis if equipment with a DPF is not commercially available. If replacement equipment is not equipped with a DPF, documentation must be provided to demonstrate that no commercially available equipment with a DPF is available.

6.2 ALTERNATIVE 6

As discussed above in Section 4.0, under Alternative 6, the maximum incremental cancer risk estimate at the MEIR, MEIS, and fire station receptor would exceed the threshold of one in one million even with incorporation of control strategies. In addition, the modeled maximum acute impacts at the residential, worker, fire station, and park visitor receptors would exceed the acute HI threshold of 1.0. Therefore, implementation of Alternative 6 would result in a potentially significant impact to residential, student, and fire station receptors with regard to cancer risk and to residential worker, fire station, and park visitor receptors with regard to acute impacts.

Emissions of DPM contribute the majority of the total cancer risk (approximately 95 percent). However, if all diesel-fueled equipment were outfitted with diesel particulate filters (similar to the potential use described for Alternative 4 but applicable to all equipment, which may not be feasible), reducing DPM emissions by at least 85 percent, the maximum incremental cancer risk estimate for the MEIR would be approximately 2 in one million, which would yet exceed the threshold of significance (the maximum incremental cancer risk estimates for the MEIS and fire station receptor would be reduced to less than the threshold of significance). With DPF mitigation in place, DPM would contribute approximately 80 percent of the mitigated risk. Emissions of chloroform would contribute approximately 7 percent of the mitigated risk. There are no feasible means to reduce the impact at the MEIR resulting from implementation of Alternative 6 to a less

than significant level. Therefore, the maximum incremental cancer risk health risk impacts would be significant and unavoidable for Alternative 6 at the MEIR.

Potential acute impacts for Alternative 6 at the residential, worker, fire station, and park visitor receptors are predicted to be a result of short-term exposures to volatile COPCs and fugitive dust emissions (i.e., PM_{10}). While implementation of Alternative 6 would include control strategies to minimize and reduce VOCs and fugitive dust, implementation of Alternative 6 would still have the potential for short-term (one-hour) releases of volatile COPCs (mainly chloroform) and fugitive dust that could result in concentrations that exceed the acute HI threshold of 1.0. There are no additional feasible mitigation measures that would reduce the potential for acute impacts. Therefore, implementation of Alternative 6 would result in a significant and unavoidable non-cancer acute health impact.

7.0 REFERENCES

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NORTH

Legend

- Site Boundary
- Internal Fences
- Site Gate
- Pits

0 50 100 150 200 Feet

Aerial Photograph: March 2011; scale approximate

PCR

N

Diagram of Project Site

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2013.

FIGURE
1

LEGEND

- Perimeter Fence
- Property Boundary
- Site Boundary

N

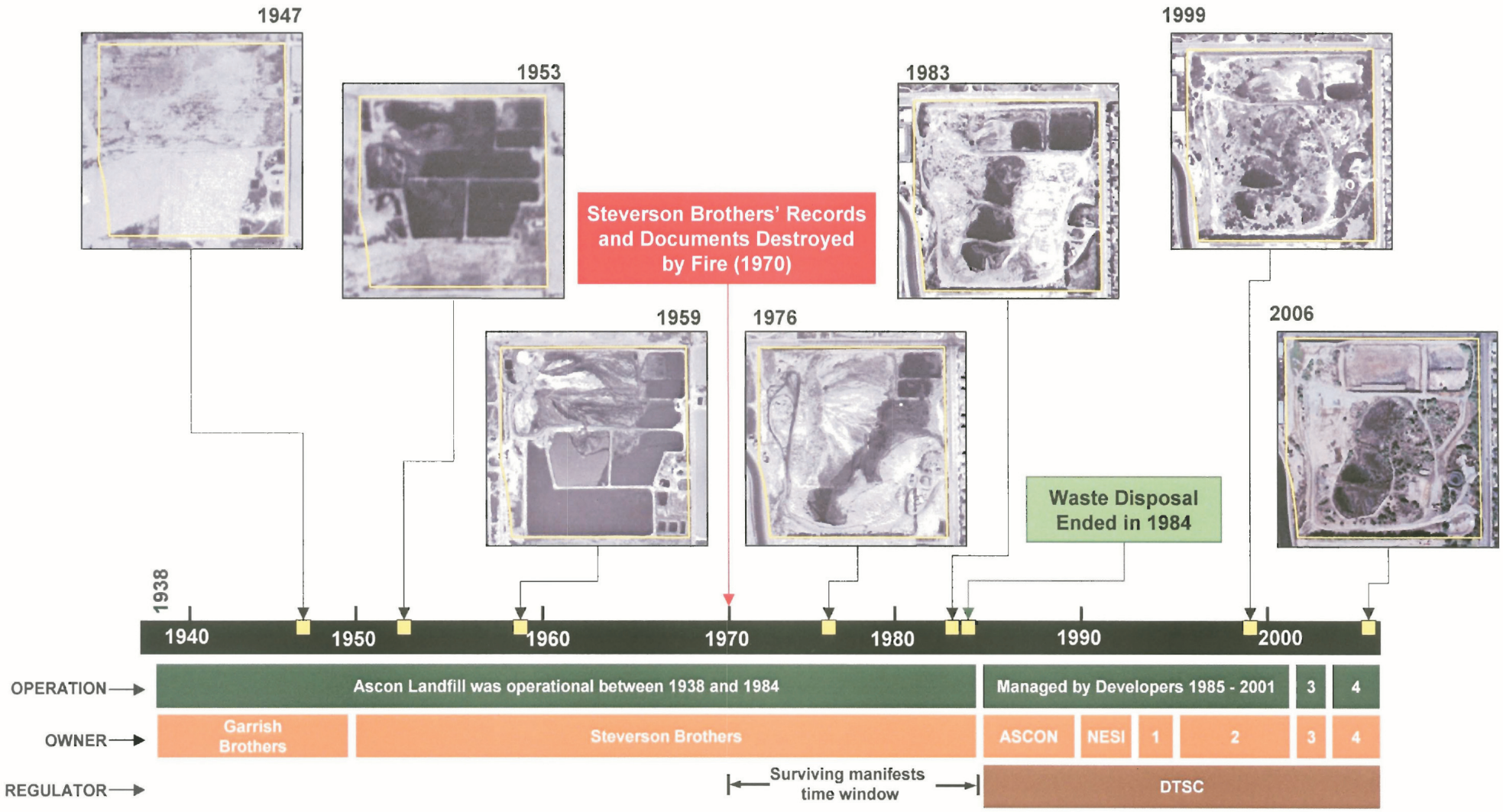
0 400 Feet

Site Ownership

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2013.

FIGURE
2

PCR



1. 1993-1995: Signal Mortgage Co.
2. 1995-2001: Signal Mortgage Co. & Savannah Resources Corp.
   - Agreement between companies to do RI/FS and RAP
3. 2001-2003: Beach Coast Properties '96 L.P. & Beach Coast Properties '98 L.P.
   - Ownership divided between two entities related to Signal Mortgage
4. May 2003 to Present: Cannery Hamilton Properties, LLC
   - LLC owned by Chevron and ConocoPhillips

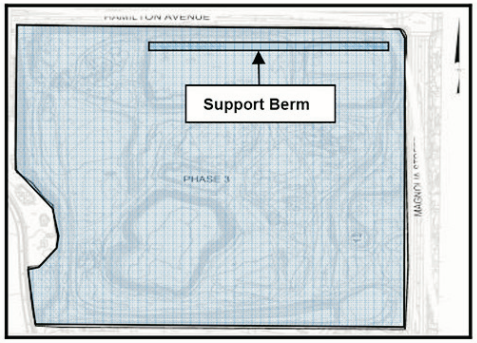
PCR

ASCON Site Timeline

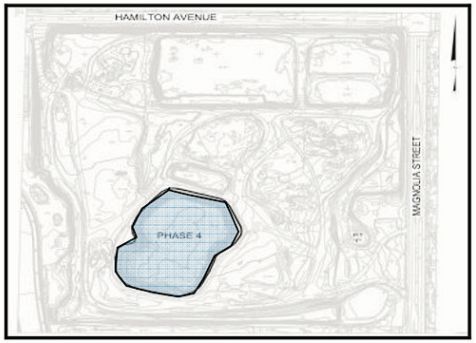
Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2007.

FIGURE
3

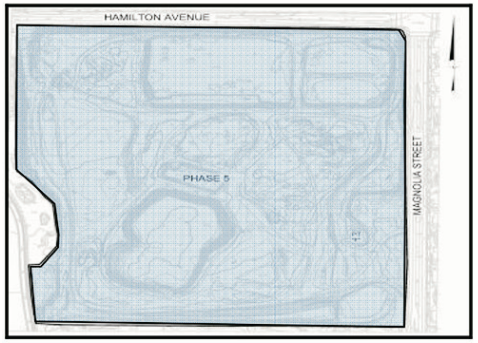
PHASE 2 - PIT F



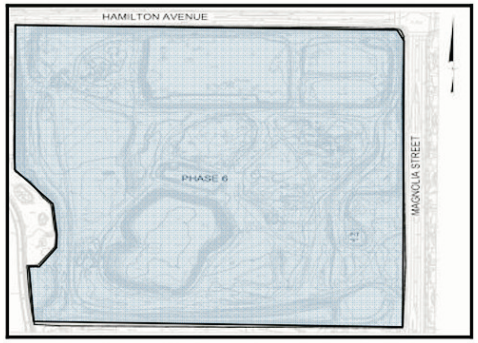
PHASE 3 - CUT/FILL TO TOP OF WASTE



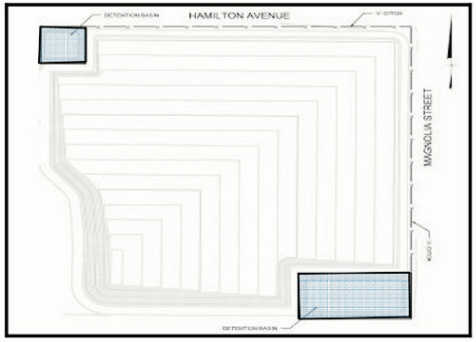
PHASE 4 - TREATMENT CELL



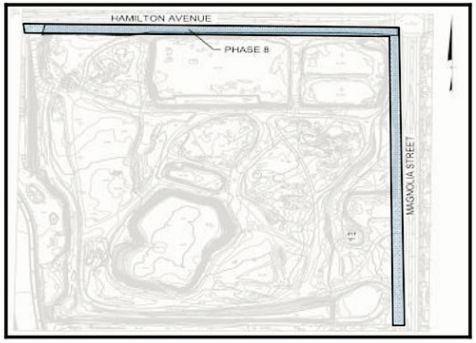
PHASE 5 - CONCRETE DEBRIS; CONSOLIDATE, REDUCE, AND PLACE AS SELECT DEEP FILL



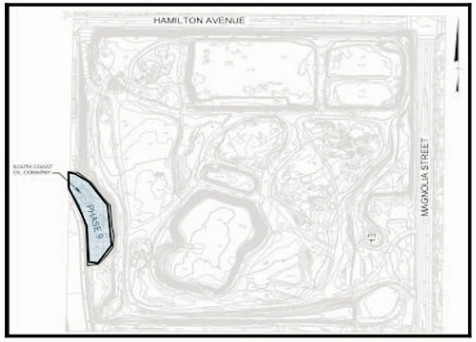
PHASE 6 - FILL TO FINAL GRADE



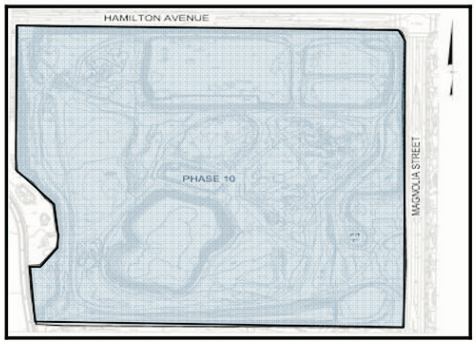
PHASE 7 - SURFACE WATER CONTROLS



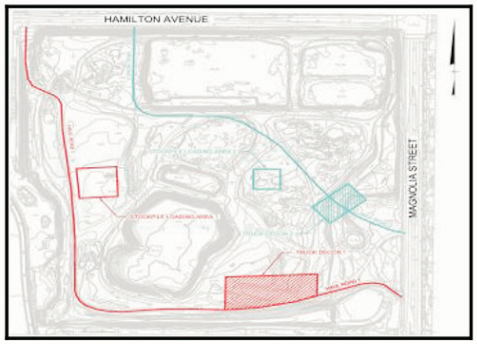
PHASE 8 - CITY PARCEL



PHASE 9 - SOUTH COAST OIL CORPORATION



PHASE 10 – SITE RESTORATION



HAUL ROAD STAGING AREAS

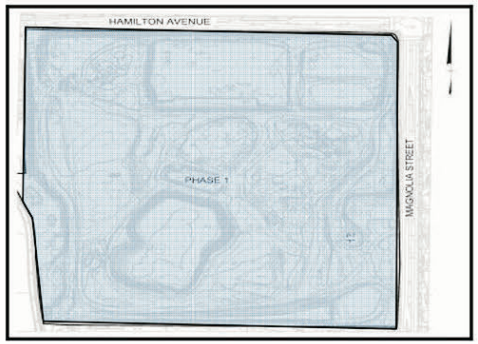
PCR

N

Alternative 4 Remediation Phasing

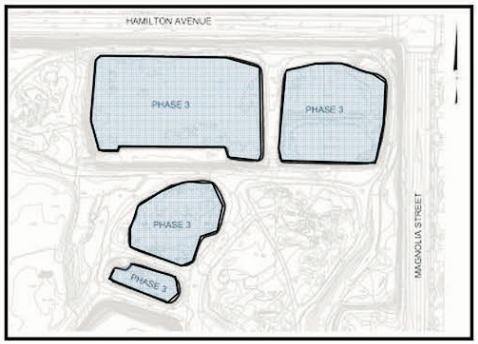
Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2011.

FIGURE
4

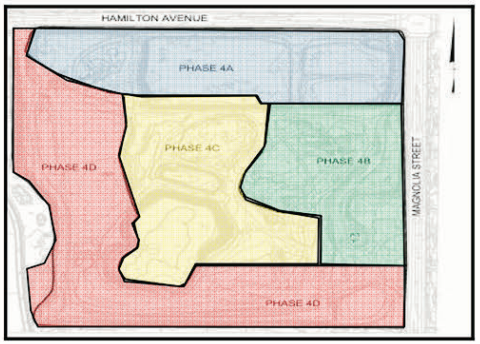


PHASE 1 – MOBILIZATION

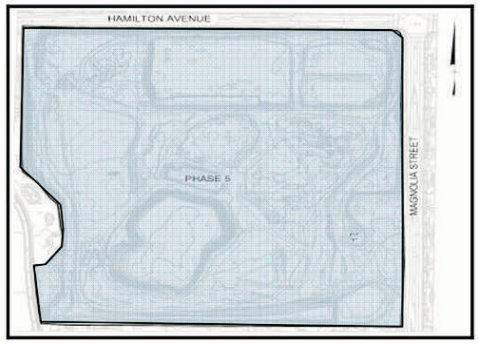
PHASE 2 – PIT F



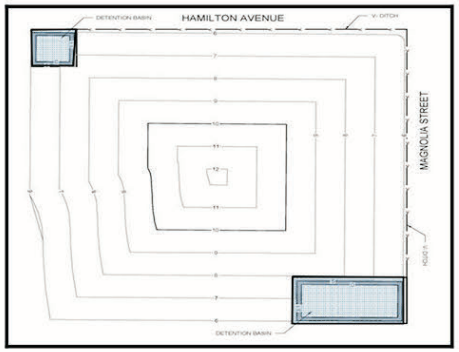
PHASE 3 – REMOVE LAGOON MATERIAL



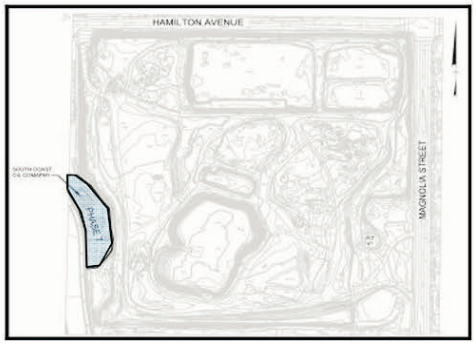
PHASES 4A - 4D – PHASED CLEARING & GRUBBING, EXCAVATION, AND BACKFILL



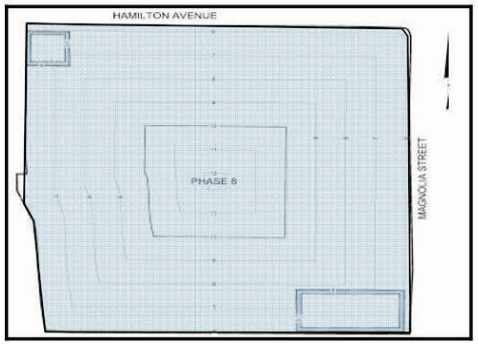
PHASE 5 – FINAL GRADE



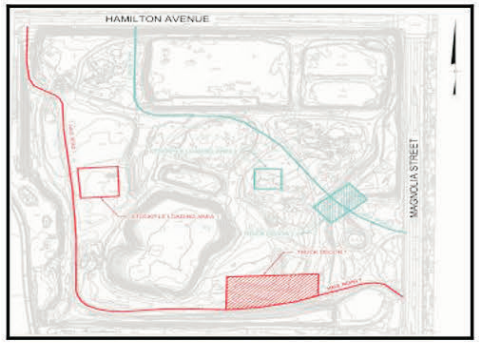
PHASE 6 – SURFACE WATER CONTROLS



PHASE F – SOUTH COAST OIL CORPORATION



PHASE 8 – SITE RESTORATION



HAUL ROAD STAGING AREAS

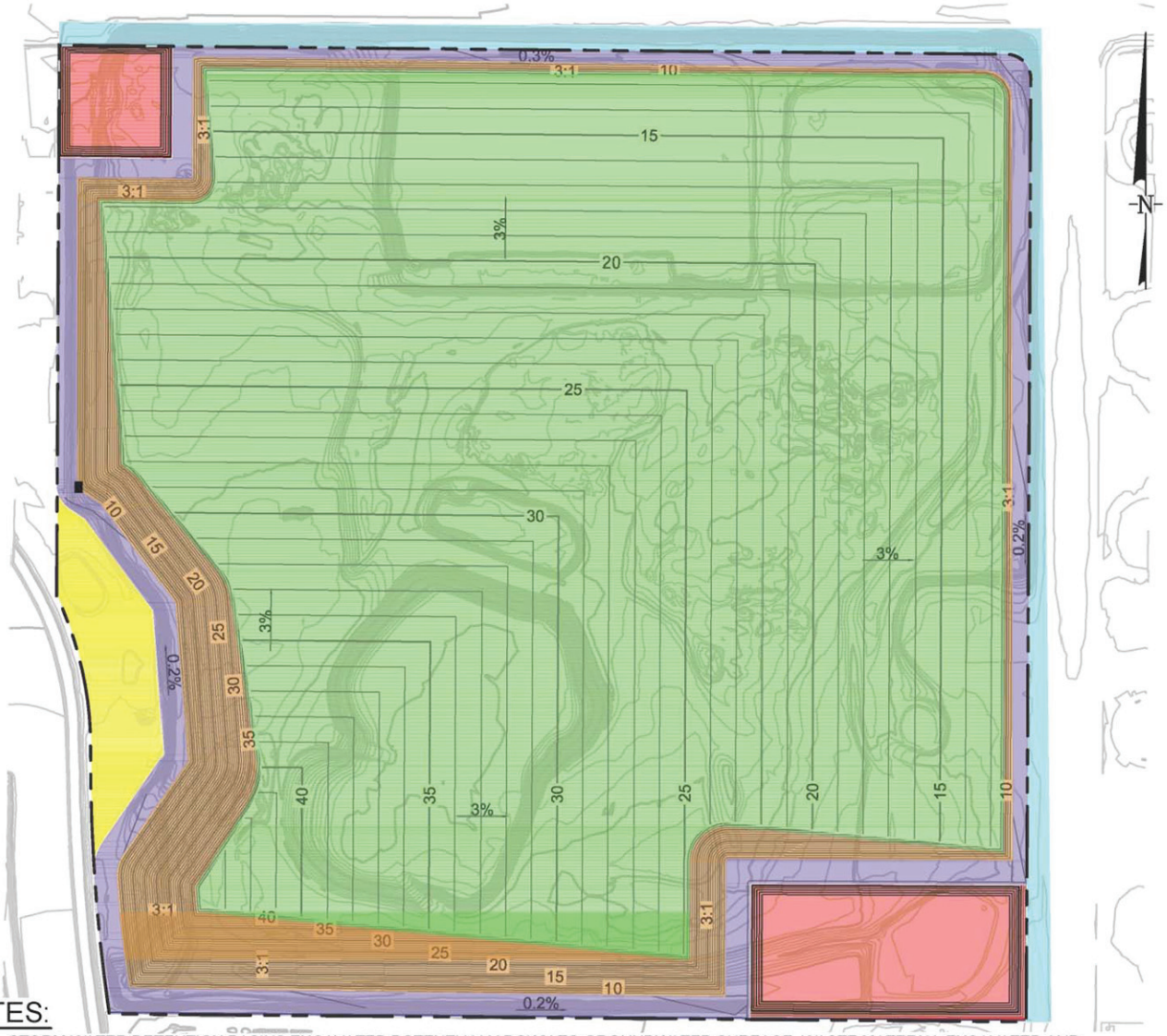
PCR

N

Alternative 6 Remediation Phasing

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2011.

FIGURE
5



LEGEND

- EXISTING MAJOR GROUND CONTOUR
- EXISTING MINOR GROUND CONTOUR
- 25 — PROPOSED MAJOR GROUND CONTOUR
- PROPOSED MINOR GROUND CONTOUR
- PROPERTY BOUNDARY
- CAP FOR TOP DECK AREA
- CAP FOR SIDE SLOPES
- STORM WATER DETENTION BASINS (NOTE 1)
- OIL LEASE PROPERTY (NOTE 2)
- PERIMETER ACCESS ROAD (NOTE 3)
- CITY OF HUNTINGTON BEACH (NOTE 3)
- APPROXIMATE GAS TREATMENT SYSTEM LOCATION

ELEVATION OF MAGNOLIA STREET = 6.5 TO 7.5 FT
ELEVATION OF HAMILTON AVENUE = 4.1 TO 6.5 FT
ELEVATION AT TOP OF EAST AND NORTH SIDE SLOPES = 13 FT
ELEVATION AT HIGH POINT NEAR SOUTHWEST CORNER = 44 FT
SETBACK OF TOE OF SIDE SLOPES FROM PROPERTY BOUNDARY:
NORTH AND EAST = 15 FT
SOUTH AND WEST = 25 FT

ALL ELEVATIONS ARE APPROXIMATE AND IN FEET ABOVE MEAN SEA LEVEL (NAVD88)

0 150' 300'
SCALE IN FEET

NOTES:

1. STORM WATER DETENTION BASINS EXCAVATED POTENTIALLY DOWN TO GROUNDWATER SURFACE. WASTE MATERIAL EXCAVATED AND RECONSOLIDATED UNDER FINAL COVER.
2. OIL LEASE PROPERTY WASTE MATERIAL, RELATED TO ASCON OPERATIONS, IF PRESENT, EXCAVATED AND RECONSOLIDATED UNDER FINAL COVER OR DISPOSED OFF-SITE AT APPROVED DISPOSAL FACILITY (DEPENDING ON TIMING OF CLOSURE CONSTRUCTION AND LEASE STATUS).
3. PERIMETER ROAD AND CITY OF HUNTINGTON BEACH PARCEL WASTE MATERIAL EXCAVATED TO A MAXIMUM DEPTH OF GROUND WATER SURFACE AND RECONSOLIDATED UNDER FINAL COVER.

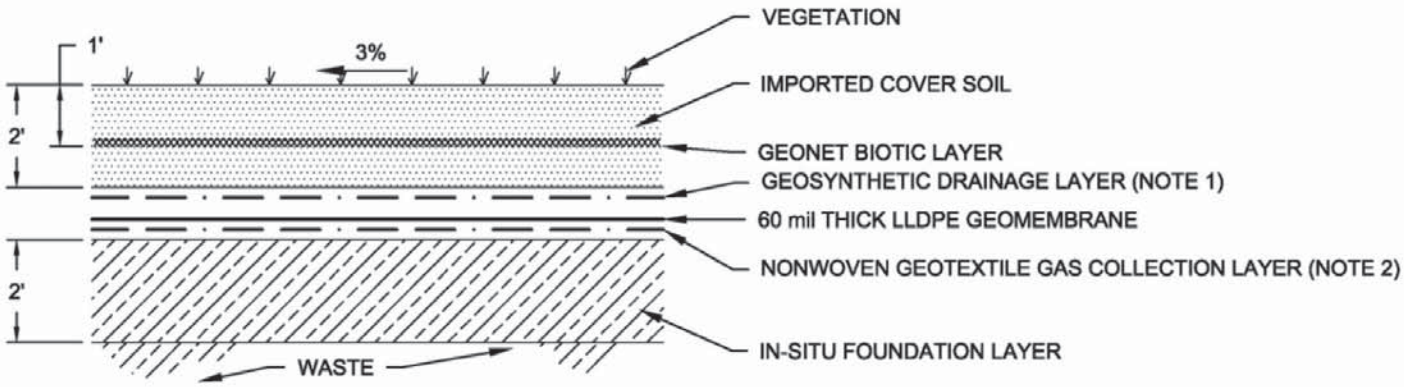
PCR

N

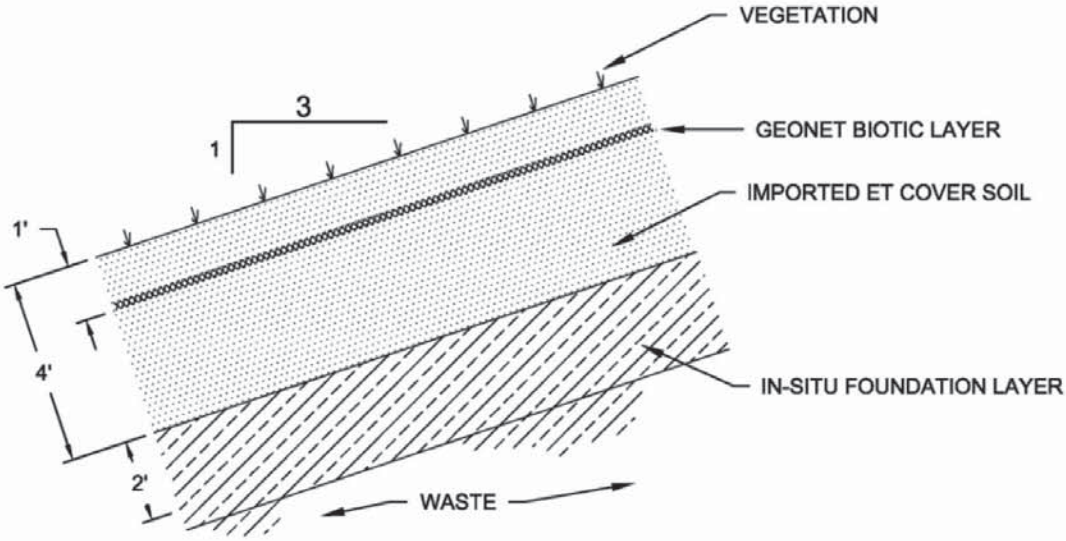
Proposed Top of Final Cover - Plan View

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2013.

FIGURE
6



PROFILE OF PROPOSED CAP FOR TOP DECK
(GEOMEMBRANE)



PROFILE OF PROPOSED CAP ON SIDE SLOPES
(EVAPOTRANSPIRATIVE)

NOTES:

1. DRAINAGE LAYER MATERIAL MAY BE NONWOVEN GEOTEXTILE OR GEOCOMPOSITE AND STRIP COMPOSITE, IF NECESSARY, AS DETERMINED DURING FINAL DESIGN.

2. GAS COLLECTION LAYER TO BE UNDERLAIN BY GEOCOMPOSITE STRIP AND PIPE NETWORK, TO COLLECT AND CONVEY GAS TO TREATMENT SYSTEM, AS DETERMINED DURING FINAL DESIGN.

PCR

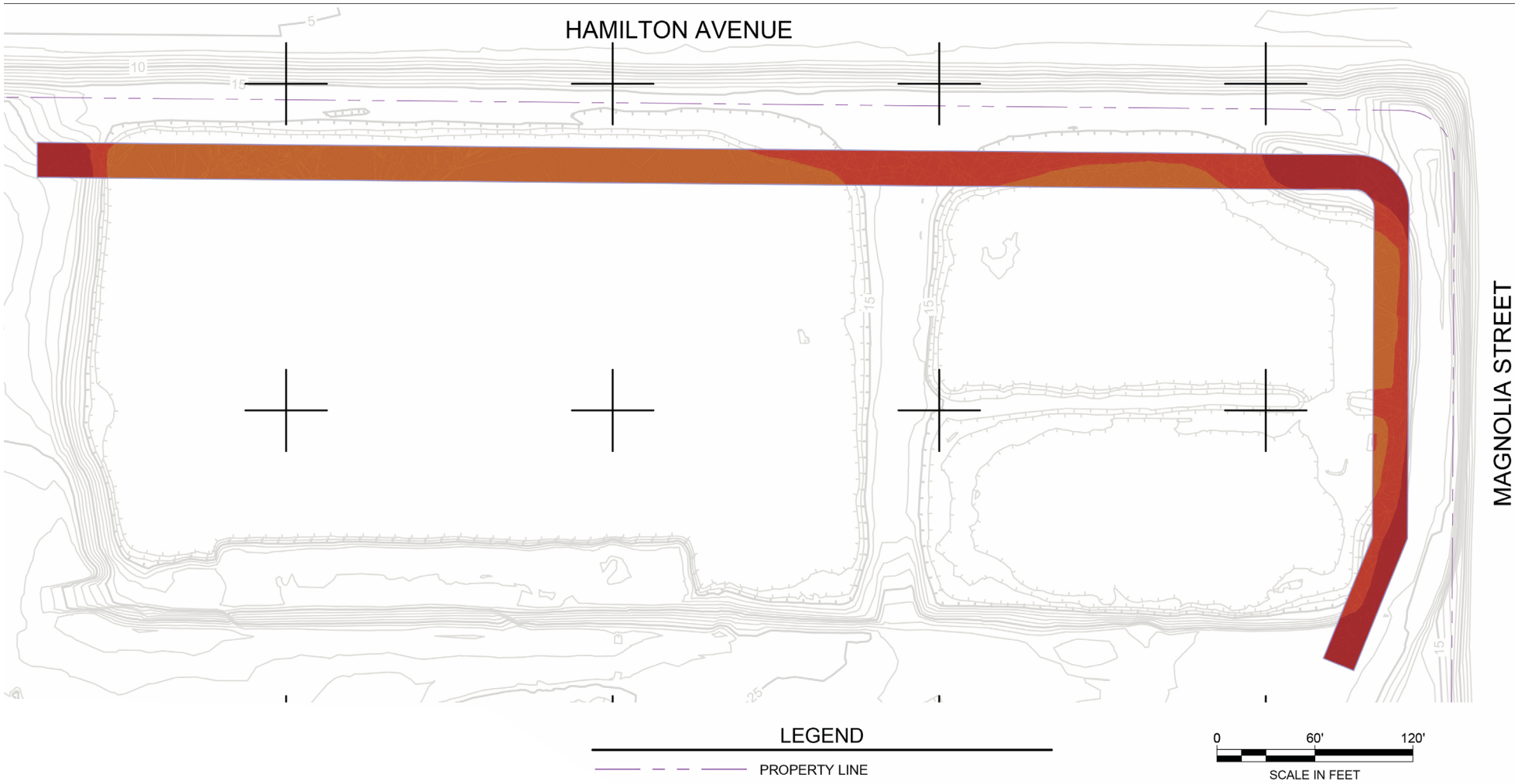
N

0 300 Feet

Proposed Final Cover Profiles

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2013.

FIGURE
7



PCR

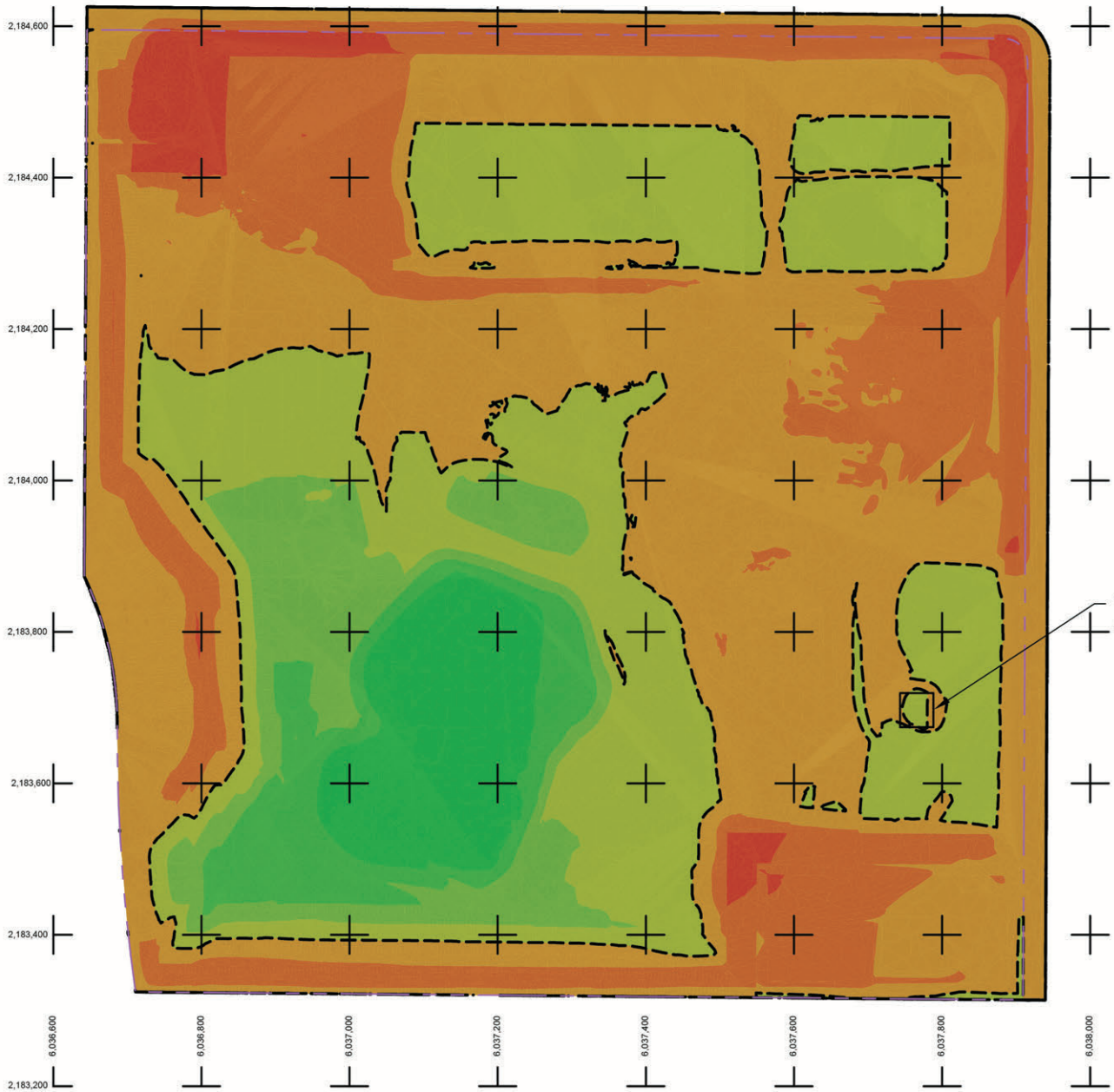
N

0 120 Feet

Alternative 4 Support Berm

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Project Navigator, Ltd., 2007.

FIGURE
8



CUT FILL THICKNESS (FEET)				
Number	Minimum Cut/Fill	Maximum Cut/Fill	Color	
1	-24	-16		CUT
2	-16	-8		
3	-8	0		
4	0	7		FILL
5	7	15		
6	15	23		
7	23	31		

LEGEND

CUT / FILL CONTOUR (DAYLIGHT LINE)

PROPERTY LINE

THE 45' x 45' PIT F AREA WILL BE EXCAVATED TO AN AVERAGE DEPTH OF 30' FROM EXISTING SURFACE

PCR

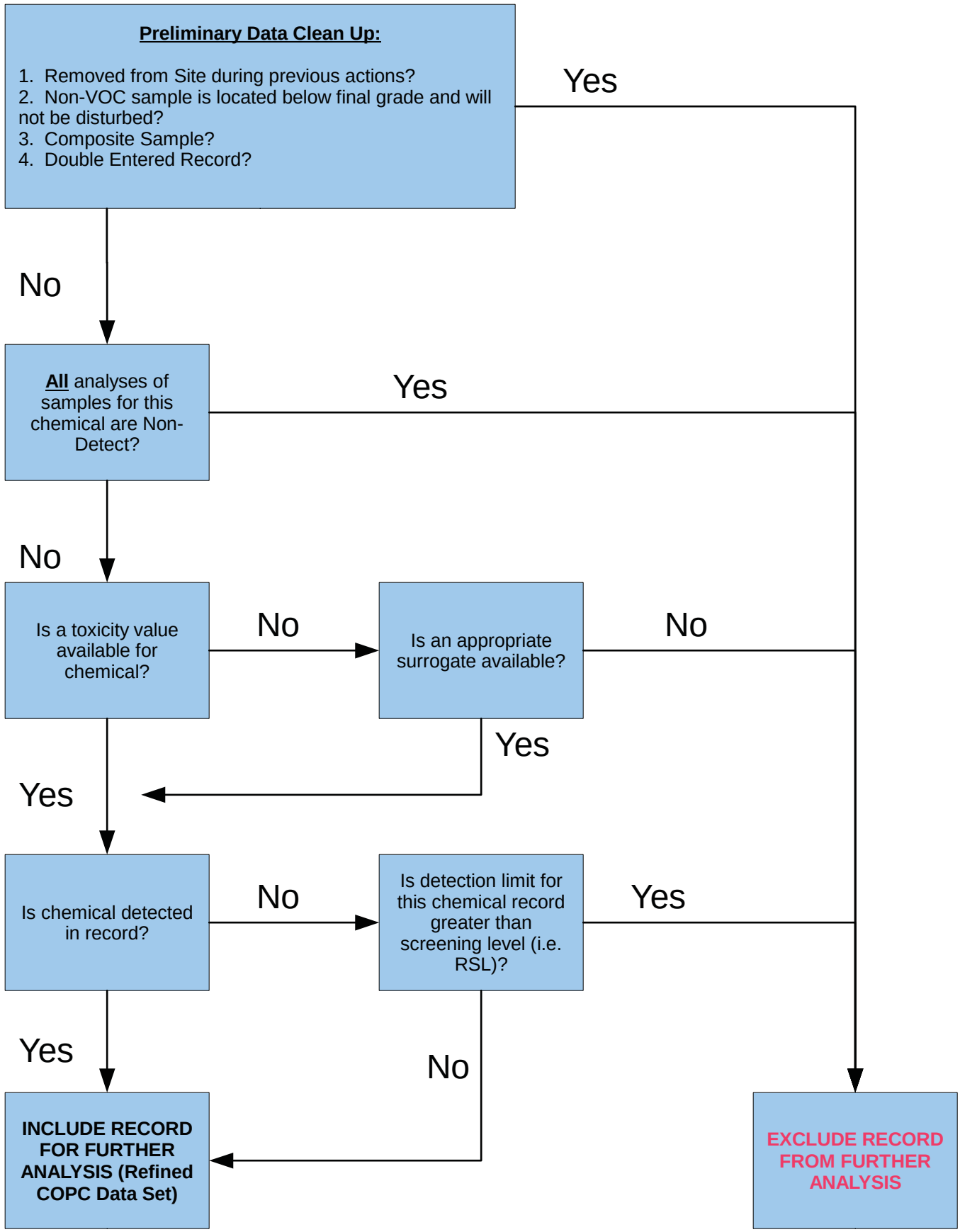
N

0 300 Feet

ASCON Excavation/Infill Depths

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Geosyntec, 2012.

FIGURE
9

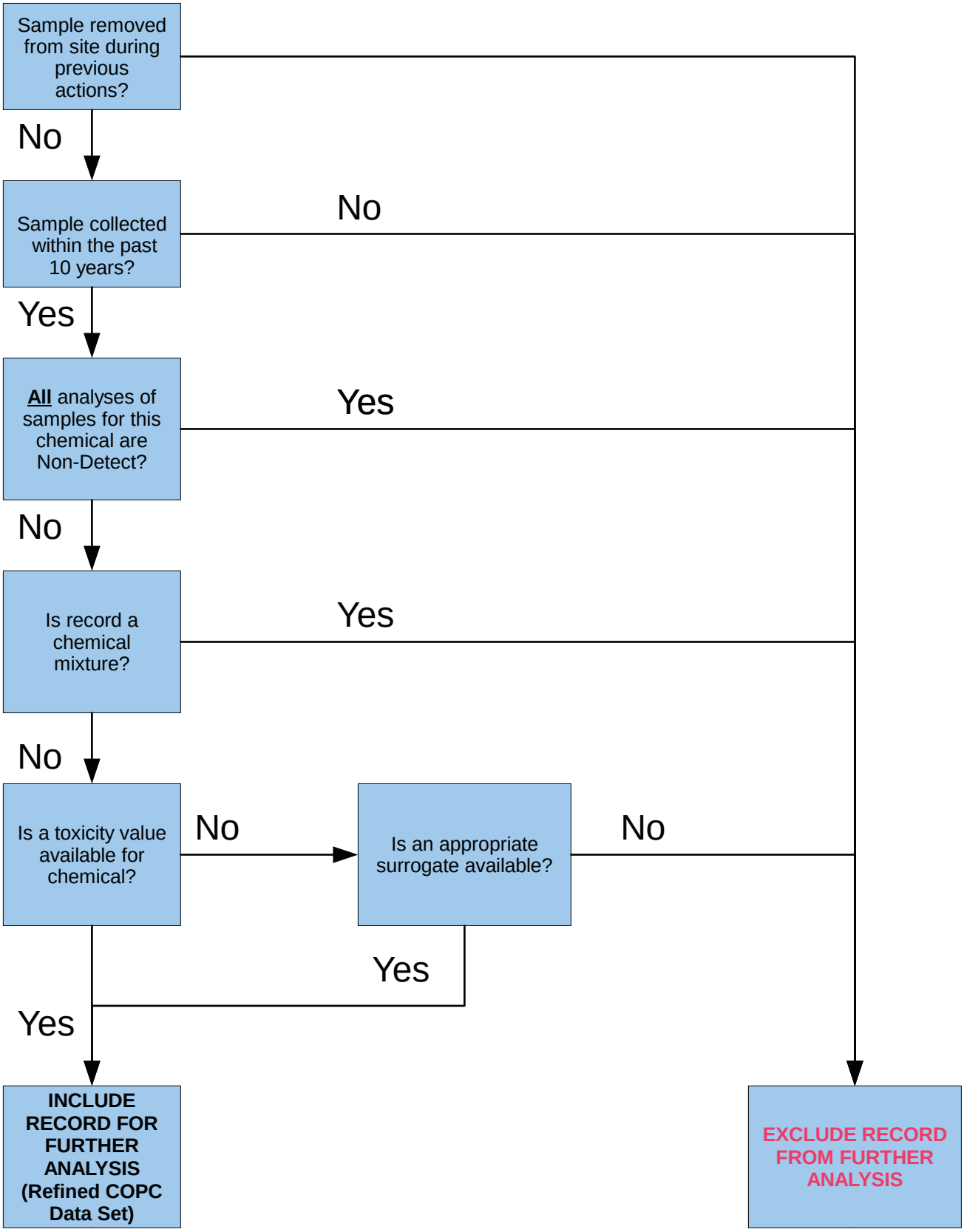


PCR

ASCON COPC Database – Soil Screening Flow Chart

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
10



PCR

ASCON COPC Database – Soil Gas Screening Flow Chart

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
11

Source	Release Mechanism(s)		Pathway	Exposure Route	On-site		Off-site			
					Employee	Resident	Resident	Student	Worker	Recreator
Waste Pit/Tarry Material	Volatile Emissions		Ambient Outdoor Air	Inhalation	X	X	X	X	X	X
Soil	Volatile Emissions	Surface Soil	Ambient Outdoor Air	Inhalation	X	X	X	X	X	X
		Subsurface Soils								
		Excavation								
	Fugitive Dust Emissions	Unpaved Road Traffic	Ambient Air	Inhalation	X	X	X	X	X	X
		Construction Activities*	Soil Deposition	Dermal	X	X	X			
		Wind Erosion	Home-Grown Produce	Ingestion	X	X	X			
	Direct Contact			Dermal	X	X				
				Ingestion	X	X				
Storm Water	(Incomplete pathway, treated on-site and released to storm drain)									
Ground Water				Ingestion	No Exposure **					
	Volatilization		Indoor Air/ Vapor Intrusion	Inhalation	X	X				
			Ambient Outdoor Air	Inhalation	X	X	X	X	X	X
Construction Equipment	Diesel Exhaust		Ambient Outdoor Air	Inhalation	X	X	X	X	X	X
Concrete Removal	Fugitive Dust/Silica		Ambient Outdoor Air	Inhalation	X	X	X	X	X	X

* Other construction activities include dumping of excavated soil, dozing, and grading.
** No exposure due to incomplete pathway (Aquifer near site is not used for drinking water supply)

PCR

Conceptual Exposure Model - Remediation Activities

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
12

PCR

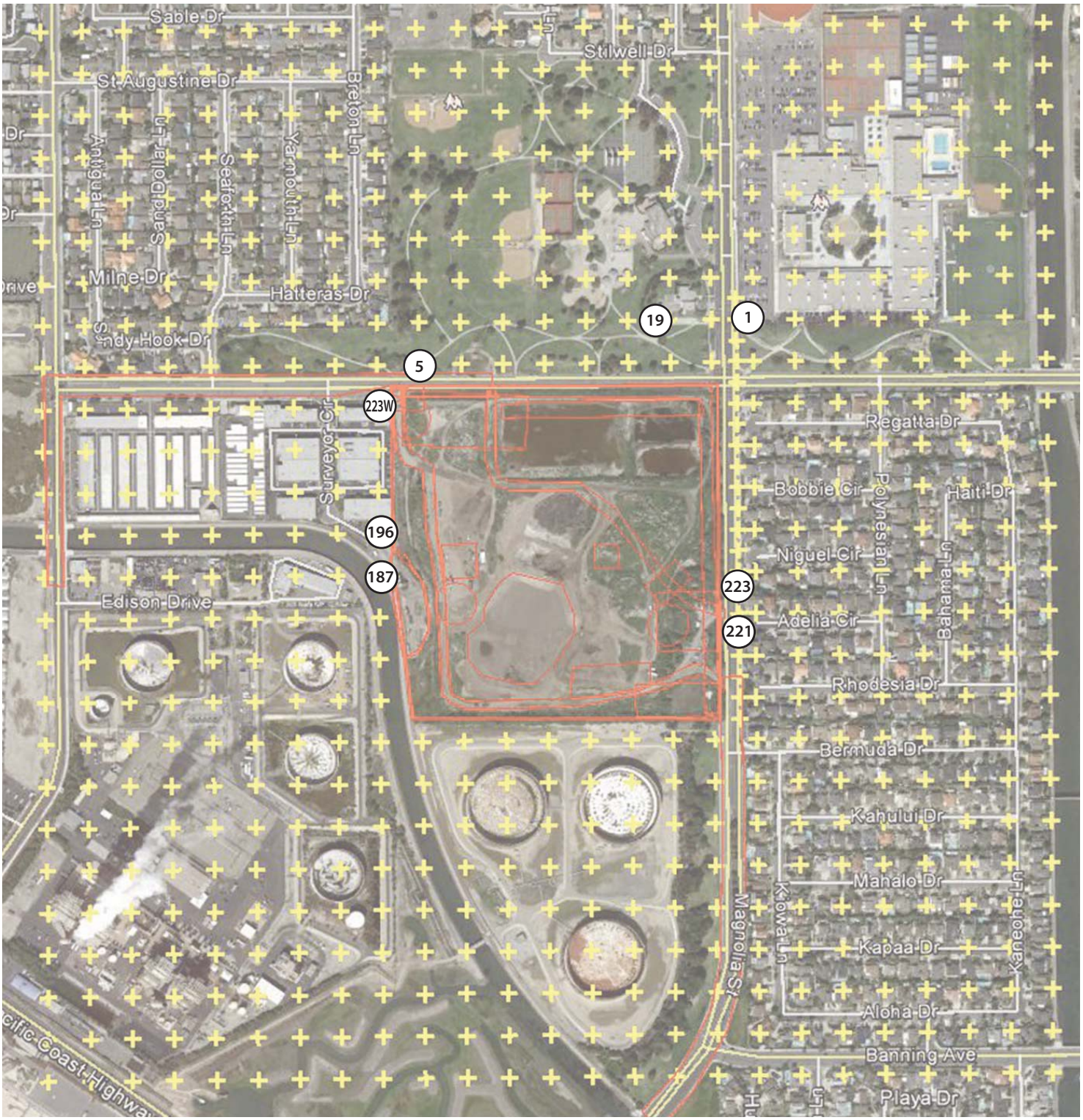
N

0 300 Feet

Benzidine Excavated Area

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: Google Earth, 2013; PCR Services Corporation, 2013.

FIGURE
13



Emissions Source

Receptor Locations

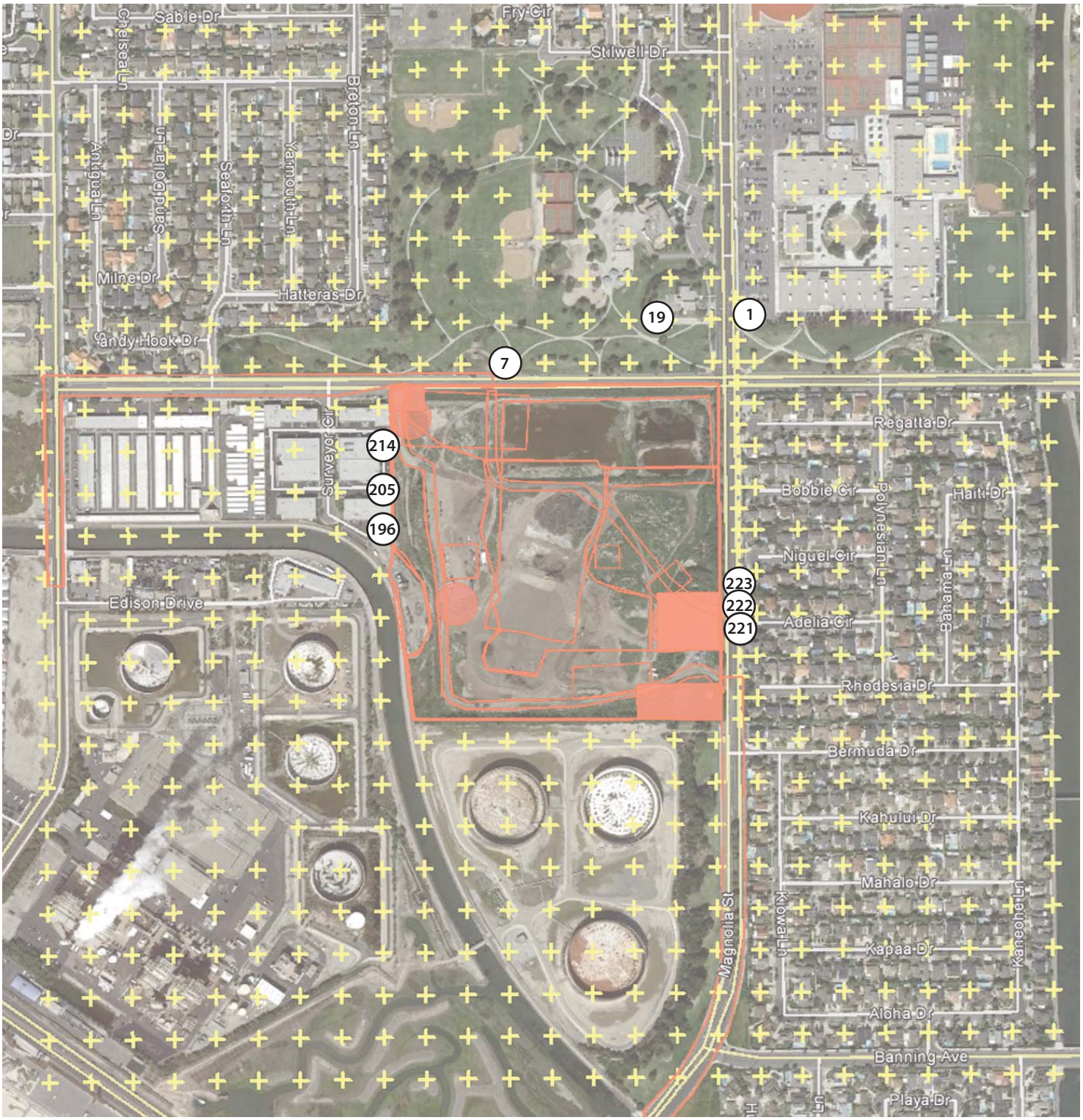
PCR

N

Source Receptor Diagram - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
14



Emissions Source

Receptor Locations

PCR

N

Source Receptor Diagram - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

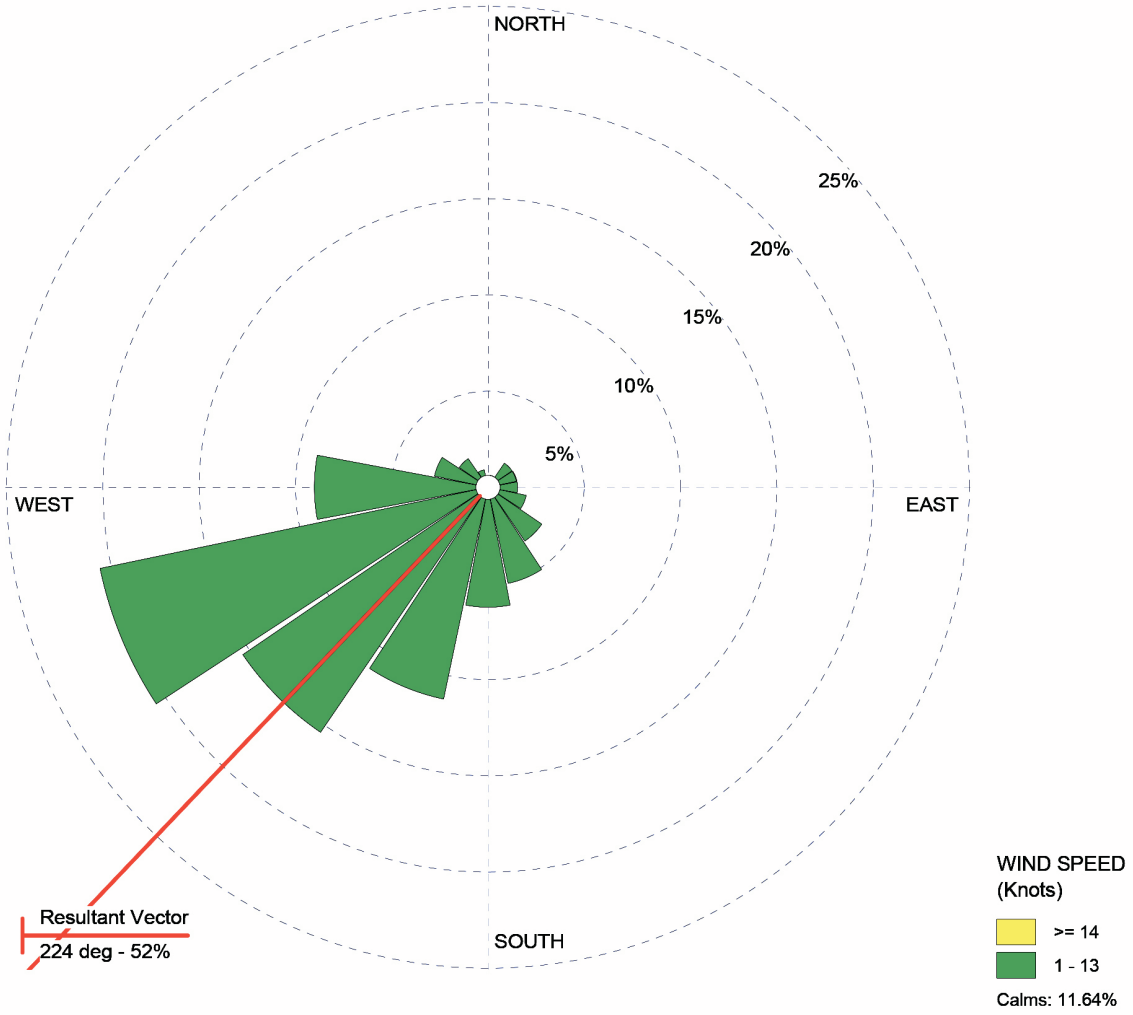
FIGURE
15

WIND ROSE PLOT:

SCAQMD Costa Mesa Wind Rose (7AM-6PM)

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 1/1/2005 - 09:00 **End Date: 12/31/2007 - 17:00**	MODELER:	
	CALM WINDS: **11.64%**	TOTAL COUNT: **11458 hrs.**	
	AVG. WIND SPEED: **2.93 Knots**	DATE: **4/9/2013**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

PCR

SCAQMD Costa Mesa Meteorological Station Wind Rose

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
16

PCR

Maximum Exposed Individual Resident (MEIR) - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
17

PCR

Maximum Exposed Individual School Receptor (MEIS) - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

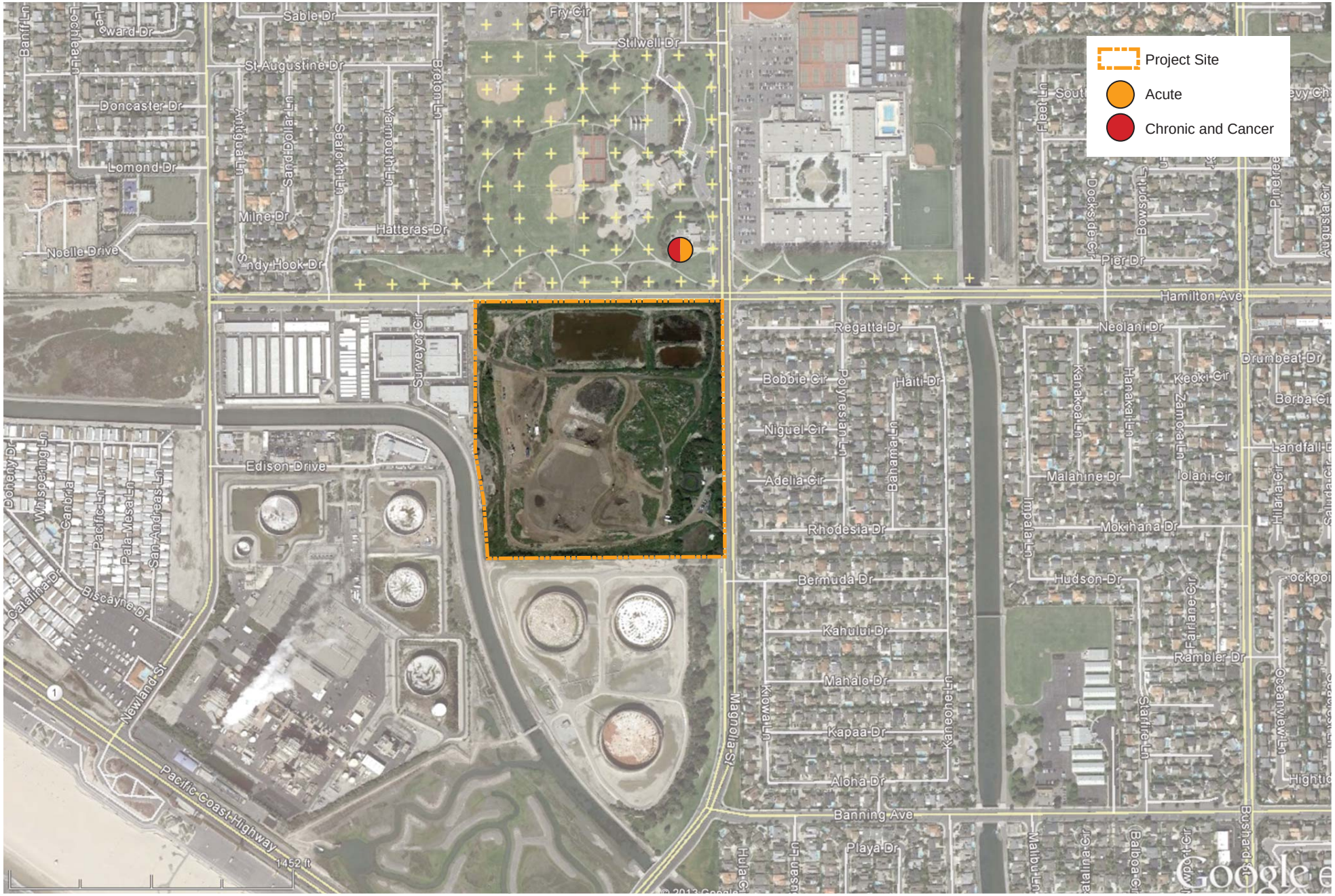
FIGURE
18

PCR

Maximum Exposed Individual Worker (MEIW) - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
19

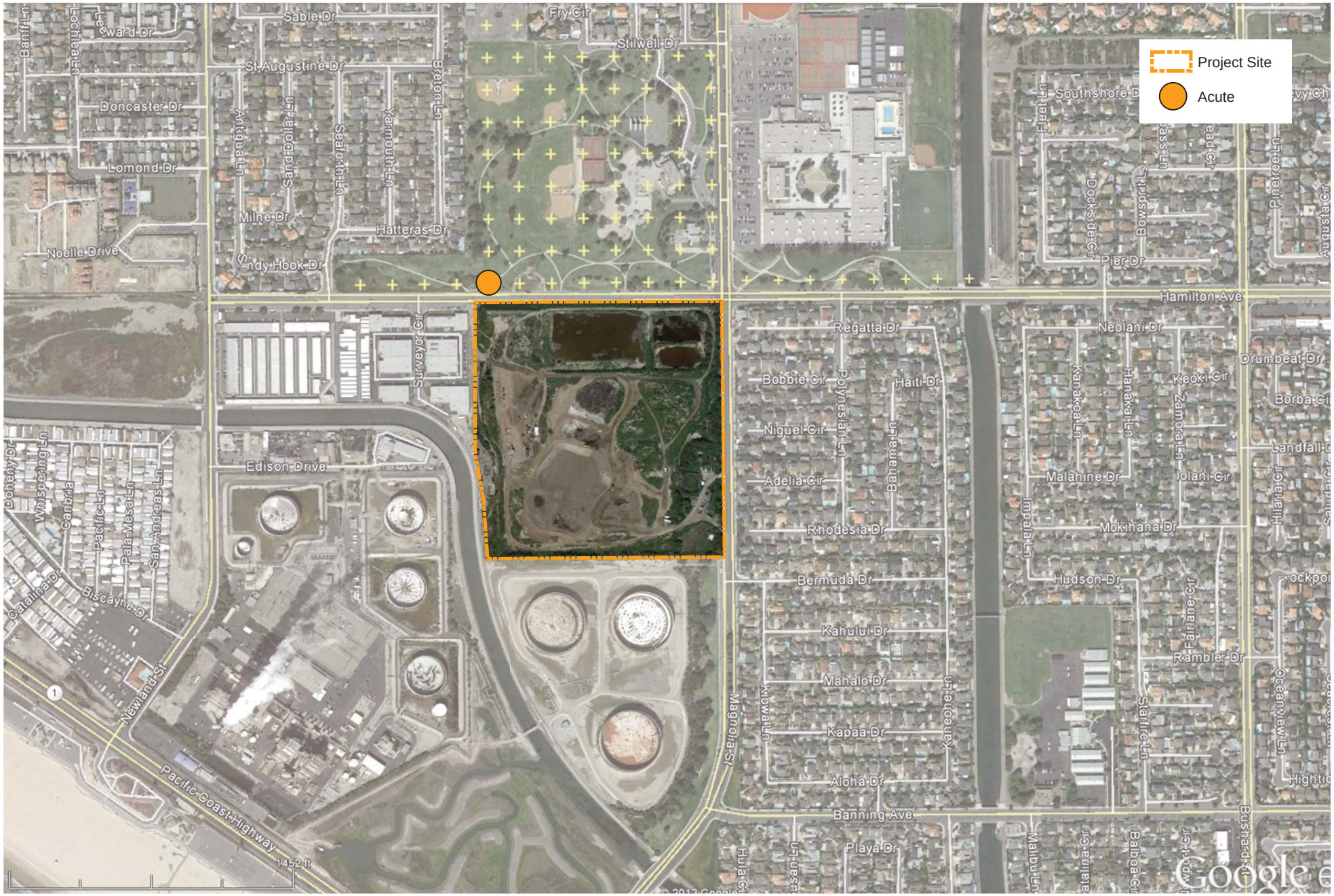


PCR

Maximum Exposed Individual Worker (Fire Station) - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
20

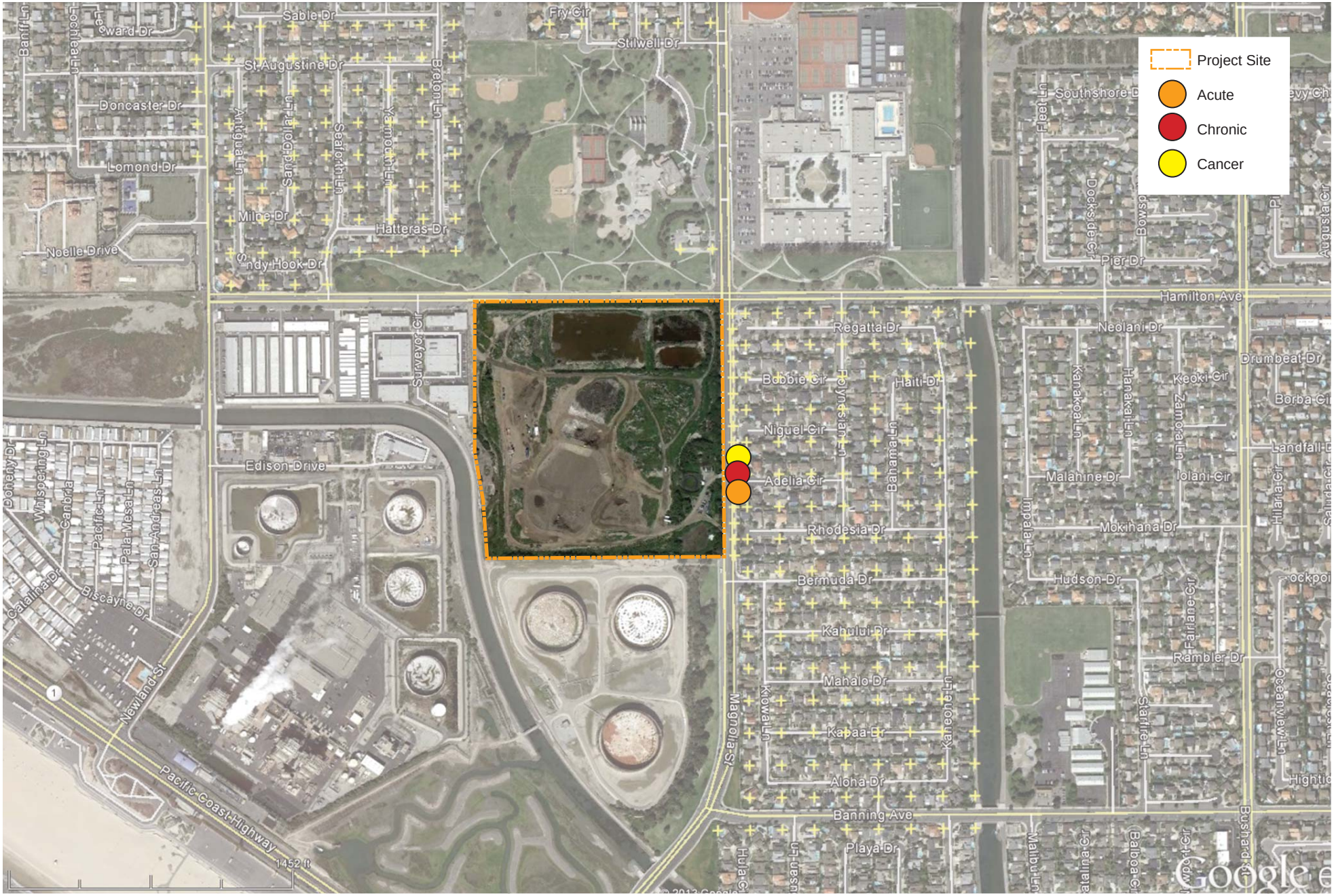


PCR

Maximum Exposed Individual (Park) - Alternative 4

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
21



PCR

Maximum Exposed Individual Resident (MEIR) - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
22

PCR

Maximum Exposed Individual School Receptor (MEIS) - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
23

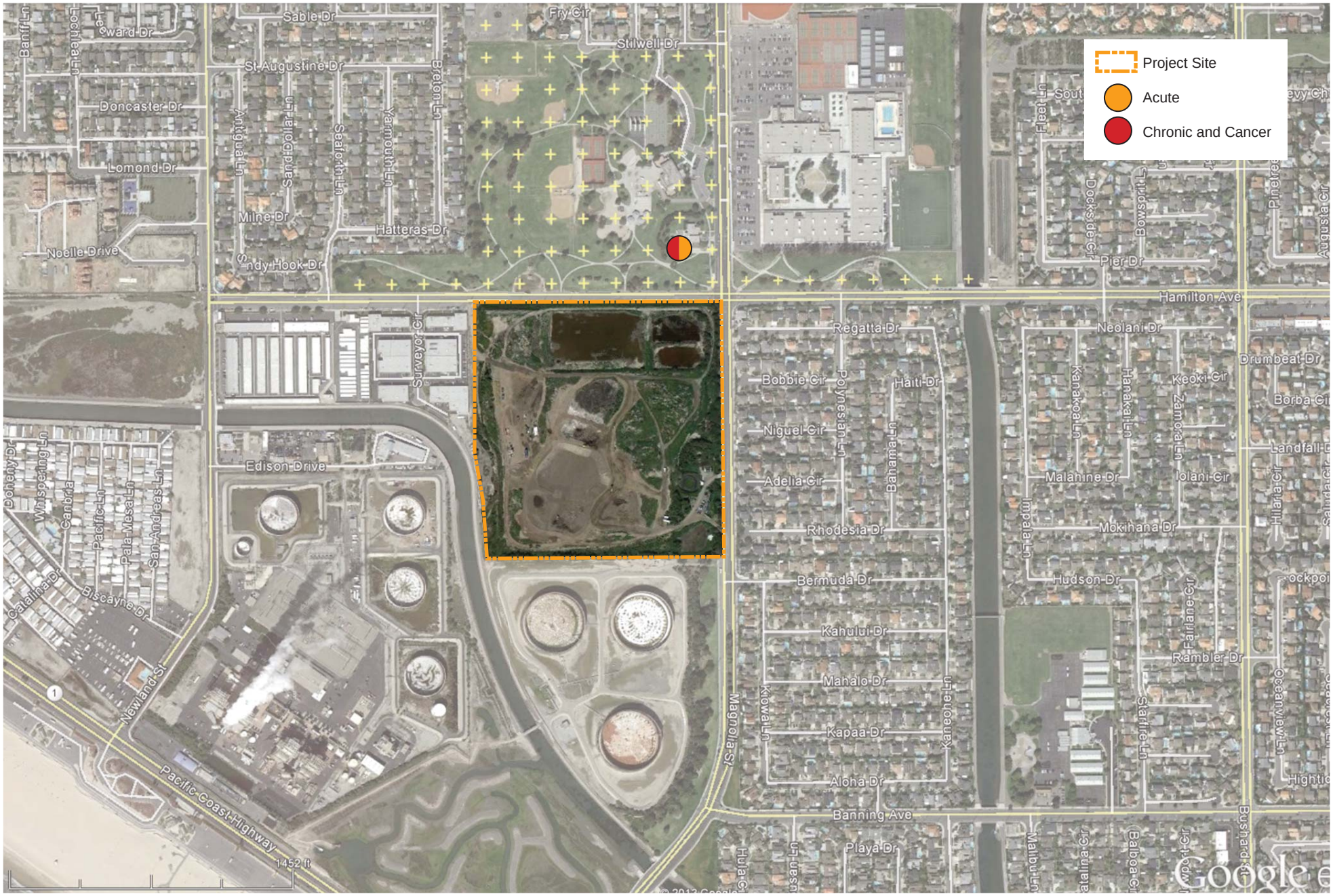
PCR

N

Maximum Exposed Individual Worker (MEIW) - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

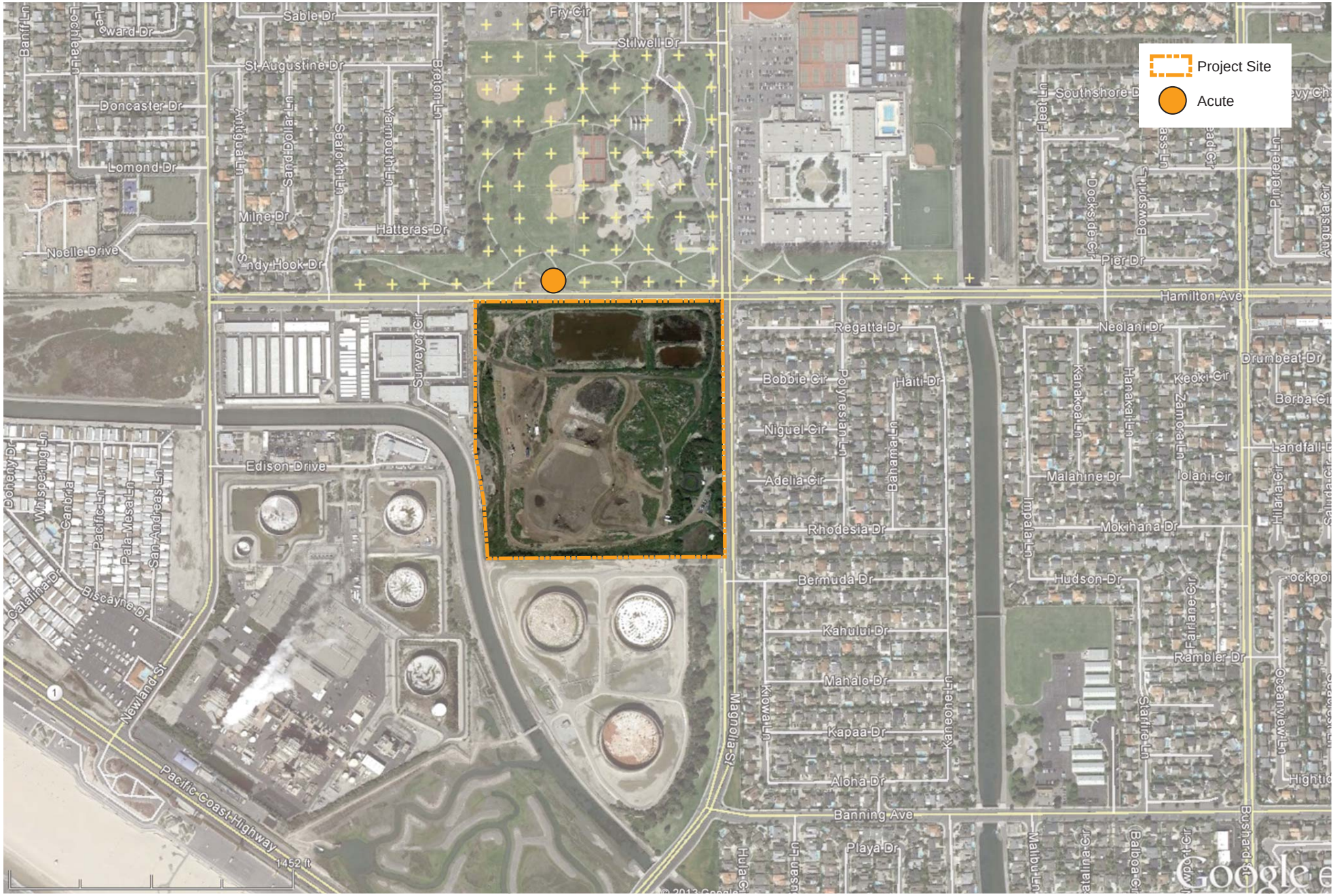
FIGURE
24



Maximum Exposed Individual Worker (Fire Station) - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
25



PCR

Maximum Exposed Individual (Park) - Alternative 6

Remedial Action Plan for Ascon Landfill Site
Health Risk Assessment
Source: PCR Services Corporation, 2013.

FIGURE
26

ASCON Chemicals of Potential Concern Screening

Summary of All Chemicals Analyzed in Soil[a]

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
1	100-01-6	4-Nitroaniline	0	255
2	100-02-7	4-Nitrophenol	0	255
3	100-41-4	Ethylbenzene	116	359
4	100-42-5	Styrene	20	330
5	10042-59-8	2-PROPYL-1-HEPTANOL	1	1
6	100-51-6	Benzyl alcohol	0	255
7	10061-01-5	c-1,3-Dichloropropene	0	330
8	10061-02-6	t-1,3-Dichloropropene	0	354
9	101-55-3	4-Bromophenyl phenyl ether	0	255
10	1024-57-3	Heptachlor epoxide	3	204
11	1031-07-8	Endosulfan sulfate	2	203
12	103-33-3	1,2-Diphenylhydrazine/Azobenzene	0	187
13	103-65-1	n-Propylbenzene	88	273
14	104-51-8	n-Butylbenzene	26	270
15	105-67-9	2,4-Dimethylphenol	1	255
16	106-42-3	P-XYLENE	2	20
17	106-43-4	4-Chlorotoluene	2	270
18	106-44-5	4-Methylphenol	0	255
19	106-46-7	1,4-Dichlorobenzene	1	577
20	106-47-8	4-Chloroaniline	0	255
21	106-93-4	1,2-Dibromoethane	1	270
22	106-99-0	1,3-Butadiene	0	6
23	107-06-2	1,2-Dichloroethane	2	356
24	107-13-1	Acrylonitrile	0	6
25	108-05-4	Vinyl Acetate	0	74
26	108-10-1	4-Methyl-2-Pentanone	0	74
27	108-38-3	M-XYLENE	4	20
28	108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	0	255
29	108-67-8	1,3,5-Trimethylbenzene	51	270
30	108-86-1	Bromobenzene	0	270
31	108-88-3	Toluene	97	359
32	108-90-7	Chlorobenzene	3	381
33	108-95-2	Phenol	6	255
34	110-75-8	2-CHLOROETHYLVINYL ETHER	0	59
35	11096-82-5	Aroclor 1260	8	197
36	11097-69-1	Aroclor 1254	3	198

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
37	11104-28-2	Aroclor 1221	0	195
38	11141-16-5	Aroclor 1232	0	195
39	111-44-4	BIS(2-CHLOROETHYL) ETHER	0	255
40	111-91-1	Bis(2-chloroethoxy)methane	0	255
41	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	28	255
42	117-84-0	Di-n-octyl phthalate	0	255
43	118-74-1	Hexachlorobenzene	0	255
44	120-12-7	Anthracene	6	281
45	120-82-1	1,2,4-Trichlorobenzene	1	525
46	120-83-2	2,4-Dichlorophenol	0	255
47	121-14-2	2,4-Dinitrotoluene	0	255
48	123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	1	1
49	124-48-1	CHLORODIBROMOMETHANE	0	354
50	124-73-2	1,2-Dibromotetrafluoroethane	0	26
51	12672-29-6	Aroclor 1248	1	196
52	12674-11-2	Aroclor 1016	2	198
53	127-18-4	Tetrachloroethene	2	354
54	12789-03-6	Chlordane	4	176
55	129-00-0	Pyrene	22	281
56	131-11-3	Dimethyl phthalate	0	255
57	132-64-9	Dibenzofuran	1	255
58	1330-20-7	XYLENES (TOTAL)	24	66
59	135-98-8	(1-METHYLPROPYL)BENZENE	84	270
60	142-28-9	1,3-Dichloropropane	0	270
61	156-59-2	c-1,2-Dichloroethene	0	304
62	156-60-5	t-1,2-Dichloroethene	0	304
63	1634-04-4	Methyl-t-Butyl Ether (MTBE)	0	15
64	1653-40-3	6-METHYL-1,1-HEPTANOL	3	3
65	179601-23-1	m,p-Xylenes	55	273
66	18540-29-9	Chromium (VI)	4	146
67	191-24-2	Benzo(g,h,i)perylene	7	281
68	193-39-5	Indeno(1,2,3-cd)pyrene	5	281
69	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1	1
70	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1	1
71	205-99-2	Benzo(b)fluoranthene	8	281
72	206-44-0	Fluoranthene	12	281
73	207-08-9	Benzo(k)fluoranthene	4	281
74	208-96-8	Acenaphthylene	1	281
75	218-01-9	Chrysene	17	281

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
76	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1	1
77	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1	1
78	26952-21-6	ISOOCTANOL	2	2
79	2719-52-0	(1-METHYLBUTYL)BENZENE	1	1
80	2883-05-8	2-CYCLOHEXYLDECANE	2	2
81	2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	2	2
82	309-00-2	Aldrin	0	204
83	319-84-6	alpha-BHC	2	203
84	319-85-7	beta-BHC	7	202
85	319-86-8	delta-BHC	2	202
86	33213-65-9	Endosulfan II	1	203
87	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1	1
88	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1	1
89	496-10-6	OCTAHYDROINDENE	2	2
90	50-29-3	4,4'-DDT	11	203
91	50-32-8	Benzo(a)pyrene	7	281
92	5103-71-9	ALPHA-CHLORDANE	0	27
93	5103-74-2	GAMMA-CHLORDANE	1	27
94	51-28-5	2,4-Dinitrophenol	0	255
95	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1	1
96	534-52-1	4,6-Dinitro-2-methylphenol	0	255
97	53469-21-9	Aroclor 1242	1	196
98	53494-70-5	Endrin ketone	4	173
99	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1	1
100	53-70-3	Dibenz(a,h)anthracene	2	281
101	540-59-0	1,2-DICHLOROETHENE (TOTAL)	0	50
102	541-73-1	1,3-Dichlorobenzene	0	577
103	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1	1
104	5557-93-7	METHYLETHYL)BENZENE	1	1
105	56-23-5	Carbon Tetrachloride	0	354
106	563-58-6	1,1-Dichloropropene	0	270
107	56-55-3	BENZ[A]ANTHRACENE	8	281
108	57-12-5	CYANIDE, EPA 335.2	0	37
109	58-89-9	gamma-BHC (Lindane)	1	203
110	591-78-6	2-Hexanone	1	74
111	594-20-7	2,2-Dichloropropane	0	270
112	59-50-7	4-Chloro-3-methylphenol	0	255
113	60-57-1	Dieldrin	4	204
114	606-20-2	2,6-Dinitrotoluene	0	255

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
115	621-64-7	N-Nitroso-di-n-propylamine	0	255
116	62-53-3	Aniline	0	228
117	630-20-6	1,1,1,2-Tetrachloroethane	0	270
118	65-85-0	Benzoic acid	1	255
119	67-64-1	2-PROPANONE	33	78
120	67-66-3	Chloroform	3	357
121	67-72-1	Hexachloroethane	0	255
122	68334-30-5	DRO (C13-C22)	5	26
123	6923-20-2	CIS-1,2-DICHLOROPROPENE	0	24
124	7005-72-3	4-Chlorophenyl phenyl ether	0	255
125	71-43-2	Benzene	71	359
126	71-55-6	1,1,1-Trichloroethane	2	356
127	72-20-8	Endrin	0	204
128	72-43-5	Methoxychlor	1	204
129	72-54-8	4,4'-DDD	11	202
130	72-55-9	4,4'-DDE	15	204
131	7421-93-4	Endrin aldehyde	6	176
132	7439-92-1	Lead	229	272
133	7439-97-6	Mercury	127	222
134	7439-98-7	Molybdenum	61	236
135	7440-02-0	Nickel	243	248
136	7440-22-4	Silver	20	266
137	7440-28-0	Thallium	30	246
138	7440-36-0	Antimony	46	247
139	7440-38-2	Arsenic	189	266
140	7440-39-3	Barium	264	266
141	7440-41-7	Beryllium	121	246
142	7440-43-9	Cadmium	69	269
143	7440-47-3	Chromium	264	269
144	7440-48-4	Cobalt	229	236
145	7440-50-8	Copper	241	248
146	7440-62-2	Vanadium	234	238
147	7440-66-6	Zinc	246	250
148	7446-09-5	SULFUR DIOXIDE	1	1
149	74-83-9	Bromomethane	0	355
150	74-87-3	Chloromethane	0	355
151	74-95-3	Dibromomethane	0	270
152	74-97-5	Bromochloromethane	0	270
153	75-00-3	Chloroethane	0	355

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
154	75-01-4	Vinyl Chloride	0	355
155	75-09-2	Methylene Chloride	14	360
156	75-15-0	Carbon Disulfide	1	74
157	75-25-2	Bromoform	1	355
158	75-27-4	Bromodichloromethane	0	354
159	75-34-3	1,1-Dichloroethane	1	330
160	75-35-4	1,1-Dichloroethene	1	379
161	75-69-4	Trichlorofluoromethane	5	332
162	75-71-8	Dichlorodifluoromethane	0	270
163	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1	16
164	76-44-8	Heptachlor	3	204
165	77-47-4	Hexachlorocyclopentadiene	0	255
166	7782-49-2	Selenium	44	267
167	78-00-2	Organic Lead	21	104
168	78-59-1	Isophorone	0	255
169	78-87-5	1,2-Dichloropropane	0	354
170	78-93-3	2-Butanone	21	74
171	79-00-5	1,1,2-Trichloroethane	0	354
172	79-01-6	Trichloroethene	0	354
173	79-34-5	1,1,2,2-Tetrachloroethane	2	354
174	8001-35-2	Toxaphene	0	203
175	8006-61-9	GRO (C6 - C12)	57	199
176	83-32-9	Acenaphthene	5	281
177	84-66-2	Diethyl phthalate	0	255
178	84-74-2	Di-n-butyl phthalate	24	255
179	85-01-8	Phenanthrene	46	281
180	85-68-7	BENZYL BUTYL PHTHALATE	1	255
181	86-30-6	N-Nitrosodiphenylamine	1	255
182	86-73-7	Fluorene	9	281
183	87-61-6	1,2,3-Trichlorobenzene	3	270
184	87-68-3	Hexachlorobutadiene	0	510
185	87-86-5	Pentachlorophenol	0	255
186	88-06-2	2,4,6-Trichlorophenol	0	255
187	88-74-4	2-Nitroaniline	0	255
188	88-75-5	2-Nitrophenol	0	255
189	91-17-8	DECAHYDRONAPHTHALENE	1	1
190	91-20-3	Naphthalene	130	555
191	91-57-6	2-Methylnaphthalene	36	255
192	91-58-7	2-Chloronaphthalene	0	255

Table 1 — Summary of All Chemicals Analyzed In Soil

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
193	91-94-1	3,3'-DICHLOROBENZIDINE	1	255
194	92-87-5	Benzidine	4	228
195	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1	1
196	95-47-6	o-Xylene	55	293
197	95-48-7	2-Methylphenol	0	255
198	95-49-8	2-Chlorotoluene	0	270
199	95-50-1	1,2-Dichlorobenzene	5	577
200	95-57-8	2-Chlorophenol	0	255
201	95-63-6	1,2,4-Trimethylbenzene	69	270
202	95-95-4	2,4,5-Trichlorophenol	0	255
203	959-98-8	Endosulfan I	0	203
204	96-12-8	1,2-Dibromo-3-Chloropropane	1	270
205	96-18-4	1,2,3-Trichloropropane	0	270
206	98-06-6	tert-Butylbenzene	1	270
207	98-82-8	1-METHYLETHYLBENZENE	91	271
208	98-95-3	Nitrobenzene	0	255
209	99-09-2	3-Nitroaniline	0	255
210	99-87-6	p-Isopropyltoluene	59	270

[a] All chemicals analyzed on-site excluding chemical mixtures (petroleum). Samples were collected in soil.

[b] Number of times chemical was detected in analysis

[c] Total number of samples analyzed

ASCON Chemicals of Potential Concern Screening

List of All Soil Gas Chemicals Analyzed (2004 and 2006 Datasets)[a]

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
1	100-41-4	Ethylbenzene	11	13
2	100-42-5	Styrene	1	13
3	10061-01-5	c-1,3-Dichloropropene	0	13
4	10061-02-6	t-1,3-Dichloropropene	0	13
5	106-46-7	1,4-Dichlorobenzene	1	13
6	106-93-4	1,2-Dibromoethane	0	13
7	106-97-8	N-BUTANE	2	2
8	106-99-0	1,3-Butadiene	4	13
9	107-03-9	n-Propyl Mercaptan	0	5
10	107-06-2	1,2-Dichloroethane	0	13
11	107-13-1	Acrylonitrile	0	13
12	107-83-5	2-Methylpentane	2	2
13	108-05-4	Vinyl Acetate	6	13
14	108-10-1	4-Methyl-2-Pentanone	2	13
15	108-67-8	1,3,5-Trimethylbenzene	9	13
16	108-88-3	Toluene	13	13
17	108-90-7	Chlorobenzene	1	13
18	109-66-0	n-Pentane	3	3
19	109-79-5	n-Butyl Mercaptan	0	5
20	110-01-0	Tetrahydrothiophene	0	5
21	110-02-1	Thiophene	0	5
22	110-54-3	n-Hexane	11	13
23	110-81-6	Diethyl Disulfide	0	5
24	111-71-7	Heptanal	1	1
25	111-84-2	N-NONANE	10	13
26	123-91-1	1,4-Dioxane	0	13
27	124-13-0	Octanal	1	1
28	124-48-1	CHLORODIBROMOMETHANE	0	13
29	127-18-4	Tetrachloroethene	2	13
30	156-59-2	c-1,2-Dichloroethene	1	13
31	156-60-5	t-1,2-Dichloroethene	0	13
32	1634-04-4	Methyl-t-Butyl Ether (MTBE)	0	13
33	179601-23-1	m,p-Xylenes	13	13
34	352-93-2	Diethyl Sulfide	0	5
35	463-58-1	Carbonyl Sulfide	4	5
36	513-44-0	Isobutyl Mercaptan	0	5

Table 2 — List of All Soil Gas Chemicals Analyzed (2004 and 2006 Datasets)

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples [c]
37	540-84-1	2,2,4-TRIMETHYLPENTANE	5	5
38	541-73-1	1,3-Dichlorobenzene	0	13
39	56-23-5	Carbon Tetrachloride	0	13
40	565-59-3	2,3-Dimethylpentane	1	1
41	591-78-6	2-Hexanone	9	13
42	5989-27-5	d-Limonene	7	13
43	616-44-4	3-Methylthiophene	0	5
44	622-96-8	4-Ethyltoluene	7	13
45	624-89-5	Ethyl Methyl Sulfide	0	5
46	624-92-0	Dimethyl Disulfide	0	5
47	638-02-8	2,5-Dimethylthiophene	0	5
48	64-17-5	Ethanol	1	1
49	66-25-1	Hexanal	1	1
50	67-64-1	2-PROPANONE	13	13
51	67-66-3	Chloroform	2	13
52	71-43-2	Benzene	9	13
53	74-83-9	Bromomethane	0	13
54	74-87-3	Chloromethane	0	13
55	74-93-1	Methyl Mercaptan	0	5
56	75-00-3	Chloroethane	0	13
57	75-01-4	Vinyl Chloride	0	13
58	75-07-0	Acetaldehyde	1	1
59	75-08-1	Ethyl Mercaptan	0	5
60	75-09-2	Methylene Chloride	2	13
61	75-15-0	Carbon Disulfide	17	18
62	75-18-3	Dimethyl Sulfide	0	5
63	75-25-2	Bromoform	0	13
64	75-27-4	Bromodichloromethane	0	13
65	75-33-2	Isopropyl Mercaptan	0	5
66	75-34-3	1,1-Dichloroethane	2	13
67	75-35-4	1,1-Dichloroethene	1	13
68	75-66-1	tert-Butyl Mercaptan	0	5
69	75-69-4	Trichlorofluoromethane	3	13
70	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3	13
71	7783-06-4	Hydrogen Sulfide	3	5
72	78-87-5	1,2-Dichloropropane	0	13
73	78-93-3	2-Butanone	13	13
74	79-00-5	1,1,2-Trichloroethane	2	26
75	79-01-6	Trichloroethene	1	13

Table 2 — List of All Soil Gas Chemicals Analyzed (2004 and 2006 Datasets)

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples [c]
76	79-29-8	2,3-Dimethylbutane	2	2
77	79-34-5	1,1,2,2-Tetrachloroethane	0	13
78	80-56-8	alpha-Pinene	10	13
79	872-55-9	2-Ethylthiophene	0	5
80	91-20-3	Naphthalene	2	13
81	95-47-6	o-Xylene	12	13
82	95-50-1	1,2-Dichlorobenzene	0	13
83	95-63-6	1,2,4-Trimethylbenzene	13	13
84	96-14-0	3-Methylpentane	2	2
85	96-37-7	METHYLCYCLOPENTANE	2	2
86	98-82-8	1-METHYLETHYLBENZENE	3	13

[a] 2004 and 2006 soil gas sampling data sets were determined to be usable for further analysis (COPC List). Older datasets (1988 and 1997) were determined to be not useful for further analysis.

[b] Number of times chemical was detected in analysis

[c] Includes all samples that are remaining on-site (have not been previously removed) and have been detected at least once on-site.

ASCON Chemicals of Potential Concern Screening

List of Chemicals Analyzed but Not Detected On-site[a]

Alternative 4

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
1	100-01-6	4-Nitroaniline	0	121
2	100-02-7	4-Nitrophenol	0	121
3	100-51-6	Benzyl alcohol	0	121
4	10061-01-5	c-1,3-Dichloropropene	0	158
5	10061-02-6	t-1,3-Dichloropropene	0	169
6	101-55-3	4-Bromophenyl phenyl ether	0	121
7	103-33-3	1,2-Diphenylhydrazine/Azobenzene	0	79
8	105-67-9	2,4-Dimethylphenol	0	121
9	106-43-4	4-Chlorotoluene	0	117
10	106-44-5	4-Methylphenol	0	121
11	106-46-7	1,4-Dichlorobenzene	0	264
12	106-47-8	4-Chloroaniline	0	122
13	107-06-2	1,2-Dichloroethane	0	169
14	108-05-4	Vinyl Acetate	0	53
15	108-10-1	4-Methyl-2-Pentanone	0	53
16	108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	0	121
17	108-86-1	Bromobenzene	0	117
18	110-75-8	2-CHLOROETHYLVINYL ETHER	0	36
19	11104-28-2	Aroclor 1221	0	106
20	11141-16-5	Aroclor 1232	0	106
21	111-44-4	BIS(2-CHLOROETHYL) ETHER	0	121
22	111-91-1	Bis(2-chloroethoxy)methane	0	121
23	117-84-0	Di-n-octyl phthalate	0	121
24	118-74-1	Hexachlorobenzene	0	121
25	120-83-2	2,4-Dichlorophenol	0	121
26	121-14-2	2,4-Dinitrotoluene	0	121
27	124-48-1	CHLORODIBROMOMETHANE	0	169
28	124-73-2	1,2-Dibromotetrafluoroethane	0	13
29	12672-29-6	Aroclor 1248	0	106
30	12674-11-2	Aroclor 1016	0	106
31	131-11-3	Dimethyl phthalate	0	121
32	132-64-9	Dibenzofuran	0	121
33	142-28-9	1,3-Dichloropropane	0	117
34	156-59-2	c-1,2-Dichloroethene	0	141
35	156-60-5	t-1,2-Dichloroethene	0	141

Table 3 — [Alternative 4] List of Chemicals Analyzed but Not Detected On-site

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
36	1634-04-4	Methyl-t-Butyl Ether (MTBE)	0	13
37	309-00-2	Aldrin	0	111
38	319-86-8	delta-BHC	0	110
39	5103-71-9	ALPHA-CHLORDANE	0	14
40	51-28-5	2,4-Dinitrophenol	0	121
41	534-52-1	4,6-Dinitro-2-methylphenol	0	121
42	53469-21-9	Aroclor 1242	0	106
43	540-59-0	1,2-DICHLOROETHENE (TOTAL)	0	28
44	541-73-1	1,3-Dichlorobenzene	0	264
45	56-23-5	Carbon Tetrachloride	0	169
46	563-58-6	1,1-Dichloropropene	0	117
47	57-12-5	CYANIDE, EPA 335.2	0	21
48	594-20-7	2,2-Dichloropropane	0	117
49	59-50-7	4-Chloro-3-methylphenol	0	121
50	606-20-2	2,6-Dinitrotoluene	0	121
51	621-64-7	N-Nitroso-di-n-propylamine	0	121
52	62-53-3	Aniline	0	104
53	630-20-6	1,1,1,2-Tetrachloroethane	0	117
54	65-85-0	Benzoic acid	0	121
55	67-66-3	Chloroform	0	169
56	67-72-1	Hexachloroethane	0	121
57	6923-20-2	CIS-1,2-DICHLOROPROPENE	0	11
58	7005-72-3	4-Chlorophenyl phenyl ether	0	121
59	71-55-6	1,1,1-Trichloroethane	0	169
60	72-20-8	Endrin	0	111
61	74-83-9	Bromomethane	0	170
62	74-87-3	Chloromethane	0	170
63	74-95-3	Dibromomethane	0	117
64	74-97-5	Bromochloromethane	0	117
65	75-00-3	Chloroethane	0	170
66	75-01-4	Vinyl Chloride	0	170
67	75-25-2	Bromoform	0	169
68	75-27-4	Bromodichloromethane	0	169
69	75-34-3	1,1-Dichloroethane	0	153
70	75-71-8	Dichlorodifluoromethane	0	117
71	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0	13
72	77-47-4	Hexachlorocyclopentadiene	0	121
73	78-59-1	Isophorone	0	121
74	78-87-5	1,2-Dichloropropane	0	169

Table 3 — [Alternative 4] List of Chemicals Analyzed but Not Detected On-site

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
75	79-00-5	1,1,2-Trichloroethane	0	169
76	79-01-6	Trichloroethene	0	169
77	8001-35-2	Toxaphene	0	111
78	84-66-2	Diethyl phthalate	0	121
79	86-30-6	N-Nitrosodiphenylamine	0	121
80	87-68-3	Hexachlorobutadiene	0	225
81	87-86-5	Pentachlorophenol	0	121
82	88-06-2	2,4,6-Trichlorophenol	0	121
83	88-74-4	2-Nitroaniline	0	121
84	88-75-5	2-Nitrophenol	0	121
85	91-58-7	2-Chloronaphthalene	0	121
86	95-48-7	2-Methylphenol	0	122
87	95-49-8	2-Chlorotoluene	0	117
88	95-57-8	2-Chlorophenol	0	121
89	95-95-4	2,4,5-Trichlorophenol	0	121
90	959-98-8	Endosulfan I	0	110
91	96-18-4	1,2,3-Trichloropropane	0	117
92	98-06-6	tert-Butylbenzene	0	117
93	98-95-3	Nitrobenzene	0	121

[a] Chemicals that were not detected in soil samples collected on-site. Does not include samples thay have

[b] Number of times chemical was detected in analysis

[c] Total number of samples analyzed

ASCON Chemicals of Potential Concern Screening

List of Chemicals Analyzed and Not Detected On-site[a]

Alternative 6

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
1	100-01-6	4-Nitroaniline	0	315
2	100-02-7	4-Nitrophenol	0	315
3	100-51-6	Benzyl alcohol	0	315
4	10061-01-5	c-1,3-Dichloropropene	0	390
5	10061-02-6	t-1,3-Dichloropropene	0	414
6	101-55-3	4-Bromophenyl phenyl ether	0	315
7	103-33-3	1,2-Diphenylhydrazine/Azobenzene	0	247
8	106-44-5	4-Methylphenol	0	315
9	106-47-8	4-Chloroaniline	0	315
10	106-99-0	1,3-Butadiene	0	6
11	107-13-1	Acrylonitrile	0	6
12	108-05-4	Vinyl Acetate	0	74
13	108-10-1	4-Methyl-2-Pentanone	0	74
14	108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	0	315
15	108-86-1	Bromobenzene	0	330
16	110-75-8	2-CHLOROETHYLVINYL ETHER	0	59
17	11100-14-4	PCB-1268	0	21
18	11104-28-2	Aroclor 1221	0	249
19	11141-16-5	Aroclor 1232	0	249
20	111-44-4	BIS(2-CHLOROETHYL) ETHER	0	315
21	111-91-1	Bis(2-chloroethoxy)methane	0	315
22	117-84-0	Di-n-octyl phthalate	0	315
23	118-74-1	Hexachlorobenzene	0	315
24	120-83-2	2,4-Dichlorophenol	0	315
25	121-14-2	2,4-Dinitrotoluene	0	315
26	124-48-1	CHLORODIBROMOMETHANE	0	414
27	124-73-2	1,2-Dibromotetrafluoroethane	0	26
28	131-11-3	Dimethyl phthalate	0	315
29	142-28-9	1,3-Dichloropropane	0	330
30	156-59-2	c-1,2-Dichloroethene	0	364
31	156-60-5	t-1,2-Dichloroethene	0	364
32	1634-04-4	Methyl-t-Butyl Ether (MTBE)	0	15
33	5103-71-9	ALPHA-CHLORDANE	0	27
34	51-28-5	2,4-Dinitrophenol	0	315
35	534-52-1	4,6-Dinitro-2-methylphenol	0	315
36	540-59-0	1,2-DICHLOROETHENE (TOTAL)	0	50
37	541-73-1	1,3-Dichlorobenzene	0	697
38	56-23-5	Carbon Tetrachloride	0	414
39	563-58-6	1,1-Dichloropropene	0	330

Table 4 — [Alternative 6] List of Chemicals Analyzed but Not Detected On-site

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples[c]
40	57-12-5	CYANIDE, EPA 335.2	0	37
41	594-20-7	2,2-Dichloropropane	0	330
42	59-50-7	4-Chloro-3-methylphenol	0	315
43	606-20-2	2,6-Dinitrotoluene	0	315
44	621-64-7	N-Nitroso-di-n-propylamine	0	315
45	62-53-3	Aniline	0	289
46	630-20-6	1,1,1,2-Tetrachloroethane	0	330
47	67-72-1	Hexachloroethane	0	315
48	6923-20-2	CIS-1,2-DICHLOROPROPENE	0	24
49	7005-72-3	4-Chlorophenyl phenyl ether	0	315
50	72-20-8	Endrin	0	258
51	74-83-9	Bromomethane	0	415
52	74-87-3	Chloromethane	0	415
53	74-95-3	Dibromomethane	0	330
54	74-97-5	Bromochloromethane	0	330
55	75-00-3	Chloroethane	0	415
56	75-01-4	Vinyl Chloride	0	415
57	75-27-4	Bromodichloromethane	0	414
58	75-71-8	Dichlorodifluoromethane	0	330
59	77-47-4	Hexachlorocyclopentadiene	0	315
60	78-59-1	Isophorone	0	315
61	78-87-5	1,2-Dichloropropane	0	414
62	79-01-6	Trichloroethene	0	414
63	8001-35-2	Toxaphene	0	257
64	84-66-2	Diethyl phthalate	0	315
65	87-68-3	Hexachlorobutadiene	0	630
66	87-86-5	Pentachlorophenol	0	315
67	88-06-2	2,4,6-Trichlorophenol	0	315
68	88-74-4	2-Nitroaniline	0	315
69	88-75-5	2-Nitrophenol	0	315
70	91-58-7	2-Chloronaphthalene	0	315
71	95-48-7	2-Methylphenol	0	315
72	95-49-8	2-Chlorotoluene	0	330
73	95-57-8	2-Chlorophenol	0	315
74	95-95-4	2,4,5-Trichlorophenol	0	315
75	96-18-4	1,2,3-Trichloropropane	0	330
76	98-95-3	Nitrobenzene	0	315
77	99-09-2	3-Nitroaniline	0	315

[a] Chemicals that were not detected in any soil samples collected on-site. Does not include samples that have already been removed from the site.

[b] Number of times chemical was detected in analysis

[c] Total number of samples analyzed

ASCON Chemicals of Potential Concern Screening

Summary of Chemicals with Detection Limits Exceeding Screening Levels[a]

Alternative 4

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
1	100-41-4	Ethylbenzene	34	171	137	0
2	100-42-5	Styrene	7	158	151	0
3	1024-57-3	Heptachlor epoxide	2	111	109	18
4	1031-07-8	Endosulfan sulfate	2	110	108	0
5	103-65-1	n-Propylbenzene	16	117	101	0
6	104-51-8	n-Butylbenzene	5	117	112	0
7	106-42-3	P-XYLENE	1	11	10	0
8	106-93-4	1,2-Dibromoethane	1	117	116	13
9	108-38-3	M-XYLENE	2	11	9	0
10	108-67-8	1,3,5-Trimethylbenzene	10	117	107	0
11	108-88-3	Toluene	39	171	132	0
12	108-90-7	Chlorobenzene	1	183	182	0
13	108-95-2	Phenol	1	120	119	0
14	11096-82-5	Aroclor 1260	6	106	100	32
15	11097-69-1	Aroclor 1254	1	106	105	32
16	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	15	120	105	6
17	120-12-7	Anthracene	2	135	133	0
18	120-82-1	1,2,4-Trichlorobenzene	1	238	237	7
19	127-18-4	Tetrachloroethene	2	169	167	0
20	12789-03-6	Chlordane	3	97	94	5
21	129-00-0	Pyrene	17	134	117	2
22	1330-20-7	XYLENES (TOTAL)	15	43	28	0
23	135-98-8	(1-METHYLPROPYL)BENZENE	15	117	102	0
24	179601-23-1	m,p-Xylenes	10	117	107	0
25	18540-29-9	Chromium (VI)	4	78	74	0
26	191-24-2	Benzo(g,h,i)perylene	7	134	127	0
27	193-39-5	Indeno(1,2,3-cd)pyrene	5	134	129	98
28	205-99-2	Benzo(b)fluoranthene	8	134	126	84
29	206-44-0	Fluoranthene	10	134	124	1
30	207-08-9	Benzo(k)fluoranthene	4	134	130	32
31	208-96-8	Acenaphthylene	1	134	133	0
32	218-01-9	Chrysene	12	134	122	8
33	319-84-6	alpha-BHC	1	110	109	18
34	319-85-7	beta-BHC	1	110	109	9
35	33213-65-9	Endosulfan II	1	110	109	0
36	50-29-3	4,4'-DDT	11	111	100	4
37	50-32-8	Benzo(a)pyrene	7	134	127	122

Table 5 — [Alternative 4] Summary of Chemicals with Detection Limits Exceeding Screening Levels

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
38	5103-74-2	GAMMA-CHLORDANE	1	14	13	0
39	53494-70-5	Endrin ketone	3	91	88	0
40	53-70-3	Dibenz(a,h)anthracene	1	134	133	124
41	56-55-3	BENZ[A]ANTHRACENE	6	134	128	83
42	58-89-9	gamma-BHC (Lindane)	1	111	110	6
43	591-78-6	2-Hexanone	1	53	52	0
44	60-57-1	Dieldrin	3	111	108	31
45	67-64-1	2-PROPANONE	22	56	34	0
46	68334-30-5	DRO (C13-C22)	5	13	8	0
47	71-43-2	Benzene	17	171	154	1
48	72-43-5	Methoxychlor	1	111	110	0
49	72-55-9	4,4'-DDE	14	112	98	
50	7421-93-4	Endrin aldehyde	5	96	91	
51	7439-92-1	Lead	124	150	26	
52	7439-97-6	Mercury	69	115	46	
53	7439-98-7	Molybdenum	31	130	99	
54	7440-02-0	Nickel	134	136	2	
55	7440-22-4	Silver	10	146	136	
56	7440-28-0	Thallium	13	135	122	
57	7440-36-0	Antimony	32	135	103	
58	7440-38-2	Arsenic	104	146	42	
59	7440-39-3	Barium	145	146	1	
60	7440-41-7	Beryllium	78	135	57	
61	7440-43-9	Cadmium	45	148	103	
62	7440-47-3	Chromium	145	148	3	
63	7440-48-4	Cobalt	125	130	5	
64	7440-50-8	Copper	134	137	3	
65	7440-62-2	Vanadium	130	133	3	
66	7440-66-6	Zinc	136	138	2	
67	75-09-2	Methylene Chloride	7	171	164	
68	75-15-0	Carbon Disulfide	1	53	52	
69	75-35-4	1,1-Dichloroethene	1	185	184	
70	75-69-4	Trichlorofluoromethane	3	155	152	
71	76-44-8	Heptachlor	3	111	108	
72	7782-49-2	Selenium	20	147	127	
73	78-00-2	Organic Lead	18	54	36	
74	78-93-3	2-Butanone	13	53	40	
75	79-34-5	1,1,2,2-Tetrachloroethane	1	169	168	
76	8006-61-9	GRO (C6 - C12)	15	94	79	
77	83-32-9	Acenaphthene	2	133	131	
78	84-74-2	Di-n-butyl phthalate	14	121	107	

Table 5 — [Alternative 4] Summary of Chemicals with Detection Limits Exceeding Screening Levels

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
79	85-01-8	Phenanthrene	20	134	114	
80	85-68-7	BENZYL BUTYL PHTHALATE	1	121	120	
81	86-73-7	Fluorene	3	134	131	
82	87-61-6	1,2,3-Trichlorobenzene	2	117	115	
83	91-20-3	Naphthalene	33	251	218	
84	91-57-6	2-Methylnaphthalene	16	121	105	
85	91-94-1	3,3'-DICHLOROBENZIDINE	1	121	120	4
86	92-87-5	Benzidine	3	104	101	3
87	95-47-6	o-Xylene	13	128	115	0
88	95-50-1	1,2-Dichlorobenzene	3	264	261	0
89	95-63-6	1,2,4-Trimethylbenzene	19	117	98	0
90	96-12-8	1,2-Dibromo-3-Chloropropane	1	117	116	0
91	98-82-8	1-METHYLETHYLBENZENE	16	117	101	0
92	99-87-6	p-Isopropyltoluene	12	117	105	0

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.

[b] Number of times chemical was detected in analysis

[c] Number of times sample was analyzed, chemical was not detected in analysis

[d] Number of times chemical was not detected, but detection limit (DL) is greater than the Screening Level (SL)

ASCON Chemicals of Potential Concern Screening

Summary of Chemicals with Detection Limits Exceeding Screening Levels[a]

Alternative 6

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
1	100-41-4	Ethylbenzene	116	359	243	0
2	100-42-5	Styrene	20	330	310	0
3	10042-59-8	2-PROPYL-1-HEPTANOL	1	1	0	0
4	1024-57-3	Heptachlor epoxide	3	204	201	27
5	1031-07-8	Endosulfan sulfate	2	203	201	0
6	103-65-1	n-Propylbenzene	88	273	185	0
7	104-51-8	n-Butylbenzene	26	270	244	0
8	105-67-9	2,4-Dimethylphenol	1	255	254	2
9	106-42-3	P-XYLENE	2	20	18	0
10	106-43-4	4-Chlorotoluene	2	270	268	0
11	106-46-7	1,4-Dichlorobenzene	1	577	576	67
12	106-93-4	1,2-Dibromoethane	1	270	269	71
13	107-06-2	1,2-Dichloroethane	2	356	354	23
14	108-38-3	M-XYLENE	4	20	16	0
15	108-67-8	1,3,5-Trimethylbenzene	51	270	219	0
16	108-88-3	Toluene	97	359	262	0
17	108-90-7	Chlorobenzene	3	381	378	0
18	108-95-2	Phenol	6	255	249	0
19	11096-82-5	Aroclor 1260	8	197	189	59
20	11097-69-1	Aroclor 1254	3	198	195	57
21	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	28	255	227	12
22	120-12-7	Anthracene	6	281	275	0
23	120-82-1	1,2,4-Trichlorobenzene	1	525	524	17
24	123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	1	1	0	0
25	12672-29-6	Aroclor 1248	1	196	195	48
26	12674-11-2	Aroclor 1016	2	198	196	12
27	127-18-4	Tetrachloroethene	2	354	352	0
28	12789-03-6	Chlordane	4	176	172	7
29	129-00-0	Pyrene	22	281	259	2
30	132-64-9	Dibenzofuran	1	255	254	8
31	1330-20-7	XYLENES (TOTAL)	24	66	42	0
32	135-98-8	(1-METHYLPROPYL)BENZENE	84	270	186	0
33	1653-40-3	6-METHYL-1,1-HEPTANOL	3	3	0	0
34	179601-23-1	m,p-Xylenes	55	273	218	0
35	18540-29-9	Chromium (VI)	4	146	142	0

Table 6 — [Alternative 6] Summary of Chemicals with Detection Limits Exceeding Screening Levels

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
36	191-24-2	Benzo(g,h,i)perylene	7	281	274	0
37	193-39-5	Indeno(1,2,3-cd)pyrene	5	281	276	205
38	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1	1	0	0
39	2049-95-8	(1,1-DIMETHYLPROPYL) BENZENE	1	1	0	0
40	205-99-2	Benzo(b)fluoranthene	8	281	273	165
41	206-44-0	Fluoranthene	12	281	269	1
42	207-08-9	Benzo(k)fluoranthene	4	281	277	79
43	208-96-8	Acenaphthylene	1	281	280	0
44	218-01-9	Chrysene	17	281	264	22
45	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1	1	0	0
46	22975-62-8	PROPYLBENZENE	1	1	0	0
47	26952-21-6	ISOOCTANOL	2	2	0	0
48	2719-52-0	(1-METHYLBUTYL)BENZENE	1	1	0	0
49	2883-05-8	2-CYCLOHEXYLDECANE	2	2	0	0
50	2958-76-1	2-METHYLDECAHYDRO -NAPHTHALENE	2	2	0	0
51	319-84-6	alpha-BHC	2	203	201	26
52	319-85-7	beta-BHC	7	202	195	13
53	319-86-8	delta-BHC	2	202	200	0
54	33213-65-9	Endosulfan II	1	203	202	0
55	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1	1	0	0
56	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1	1	0	0
57	496-10-6	OCTAHYDROINDENE	2	2	0	0
58	50-29-3	4,4'-DDT	11	203	192	6
59	50-32-8	Benzo(a)pyrene	7	281	274	259
60	5103-74-2	GAMMA-CHLORDANE	1	27	26	0
61	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1	1	0	0
62	53469-21-9	Aroclor 1242	1	196	195	48
63	53494-70-5	Endrin ketone	4	173	169	0
64	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1	1	0	0
65	53-70-3	Dibenz(a,h)anthracene	2	281	279	260
66	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1	1	0	0
67	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1	1	0	0
68	56-55-3	BENZ[A]ANTHRACENE	8	281	273	163
69	58-89-9	gamma-BHC (Lindane)	1	203	202	8
70	591-78-6	2-Hexanone	1	74	73	0

Table 6 — [Alternative 6] Summary of Chemicals with Detection Limits Exceeding Screening Levels

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
71	60-57-1	Dieldrin	4	204	200	50
72	65-85-0	Benzoic acid	1	255	254	0
73	67-64-1	2-PROPANONE	33	78	45	0
74	67-66-3	Chloroform	3	357	354	27
75	68334-30-5	DRO (C13-C22)	5	26	21	0
76	71-43-2	Benzene	71	359	288	3
77	71-55-6	1,1,1-Trichloroethane	2	356	354	0
78	72-43-5	Methoxychlor	1	204	203	0
79	72-54-8	4,4'-DDD	11	202	191	6
80	72-55-9	4,4'-DDE	15	204	189	4
81	7421-93-4	Endrin aldehyde	6	176	170	0
82	7439-92-1	Lead	229	272	43	0
83	7439-97-6	Mercury	127	222	95	0
84	7439-98-7	Molybdenum	61	236	175	0
85	7440-02-0	Nickel	243	248	5	0
86	7440-22-4	Silver	20	266	246	0
87	7440-28-0	Thallium	30	246	216	184
88	7440-36-0	Antimony	46	247	201	0
89	7440-38-2	Arsenic	189	266	77	0
90	7440-39-3	Barium	264	266	2	0
91	7440-41-7	Beryllium	121	246	125	0
92	7440-43-9	Cadmium	69	269	200	0
93	7440-47-3	Chromium	264	269	5	0
94	7440-48-4	Cobalt	229	236	7	0
95	7440-50-8	Copper	241	248	7	0
96	7440-62-2	Vanadium	234	238	4	0
97	7440-66-6	Zinc	246	250	4	0
98	7446-09-5	SULFUR DIOXIDE	1	1	0	0
99	75-09-2	Methylene Chloride	14	360	346	0
100	75-15-0	Carbon Disulfide	1	74	73	0
101	75-25-2	Bromoform	1	355	354	0
102	75-34-3	1,1-Dichloroethane	1	330	329	0
103	75-35-4	1,1-Dichloroethene	1	379	378	0
104	75-69-4	Trichlorofluoromethane	5	332	327	0
105	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1	16	15	0
106	76-44-8	Heptachlor	3	204	201	22
107	7782-49-2	Selenium	44	267	223	0
108	78-00-2	Organic Lead	21	104	83	19

Table 6 — [Alternative 6] Summary of Chemicals with Detection Limits Exceeding Screening Levels

No.	PCR CAS No.	Chemical Name	No. of Detects[b]	No. of Samples	No. of Non-Detects[c]	No. of Non-Detects with DL > SL[d]
109	78-93-3	2-Butanone	21	74	53	0
110	79-34-5	1,1,2,2-Tetrachloroethane	2	354	352	14
111	8006-61-9	GRO (C6 - C12)	57	199	142	0
112	83-32-9	Acenaphthene	5	281	276	0
113	84-74-2	Di-n-butyl phthalate	24	255	231	0
114	85-01-8	Phenanthrene	46	281	235	0
115	85-68-7	BENZYL BUTYL PHTHALATE	1	255	254	5
116	86-30-6	N-Nitrosodiphenylamine	1	255	254	8
117	86-73-7	Fluorene	9	281	272	1
118	87-61-6	1,2,3-Trichlorobenzene	3	270	267	0
119	91-17-8	DECAHYDRONAPHTHALENE	1	1	0	0
120	91-20-3	Naphthalene	130	555	425	43
121	91-57-6	2-Methylnaphthalene	36	255	219	4
122	91-94-1	3,3'-DICHLOROBENZIDINE	1	255	254	133
123	92-87-5	Benzidine	4	228	224	224
124	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1	1	0	0
125	95-47-6	o-Xylene	55	293	238	0
126	95-50-1	1,2-Dichlorobenzene	5	577	572	1
127	95-63-6	1,2,4-Trimethylbenzene	69	270	201	0
128	96-12-8	1,2-Dibromo-3-Chloropropane	1	270	269	89
129	98-06-6	tert-Butylbenzene	1	270	269	0
130	98-82-8	1-METHYLETHYLBENZENE	91	271	180	0
131	99-87-6	p-Isopropyltoluene	59	270	211	0

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.

[b] Number of times chemical was detected in analysis

[c] Number of times sample was analyzed, chemical was not detected in analysis

[d] Number of times chemical was not detected, but detection limit (DL) is greater than the Screening Level (SL)

ASCON Chemicals of Potential Concern Screening

List of Toxicity Surrogates[a]

Soil

PCR CAS No.	Chemical Name	Surrogate	Surrogate CAS No.
10042-59-8	2-PROPYL-1-HEPTANOL	n-Butanol	71-36-3
1031-07-8	Endosulfan sulfate	Endosulfan	115-29-7
123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	Di(2-ethylhexyl)adipate	103-23-1
1653-40-3	6-METHYL-1,1-HEPTANOL	n-Butanol	71-36-3
191-24-2	Benzo(g,h,i)perylene	Pyrene	129-00-0
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	n-Butylbenzene	104-51-8
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	Propylbenzene	103-65-1
208-96-8	Acenaphthylene	Acenaphthene	83-32-9
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	2-Methylnaphthalene	91-57-6
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	Methyl Styrene	98-83-9
26952-21-6	ISOOCTANOL	n-Butanol	71-36-3
2719-52-0	(1-METHYLBUTYL)BENZENE	n-Butylbenzene	104-51-8
2883-05-8	2-CYCLOHEXYLDECANE	n-Nonane	111-84-2
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	none	none
319-86-8	delta-BHC	none	none
33213-65-9	Endosulfan II	Endosulfan	115-29-7
3875-51-2	1-METHYLETHYLCYCLOPENTANE	n-nonane	111-84-2
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	Cumene	98-82-8
496-10-6	OCTAHYDROINDENE	Dicyclopentadiene	77-73-6
135-98-8	(1-METHYLPROPYL)BENZENE	n-butylbenzene	104-51-8
5103-74-2	GAMMA-CHLORDANE	Chlordane	12789-03-6
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1,3,5-trimethylbenzene	108-67-8
53494-70-5	Endrin ketone	Endrin	72-20-8
5364-83-0	(1-PROPENYL)CYCLOHEXANE	n-Nonane	111-84-2
179601-23-1	m,p-Xylenes	m-xylene	108-38-3
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	n-Butylbenzene	104-51-8
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	alpha-Methylstyrene	98-83-9
68334-30-5	DRO (C13-C22)	none	none

Table 7 — List of Toxicity Surrogates

PCR CAS No.	Chemical Name	Surrogate	Surrogate CAS No.
7421-93-4	Endrin aldehyde	Endrin	72-20-8
7446-09-5	SULFUR DIOXIDE	none	none
8006-61-9	GRO (C6 - C12)	none	none
85-01-8	Phenanthrene	Anthracene	120-12-7
91-17-8	DECAHYDRONAPHTHALENE	Naphthalene	91-20-3
941-60-6	1,1,4-6-TETRAMETHYLINDANE	Indan	13776-88-0
98-06-6	tert-Butylbenzene	Cumene	98-82-8
99-87-6	p-Isopropyltoluene	Cumene	98-82-8

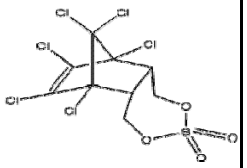
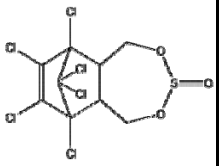
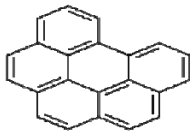
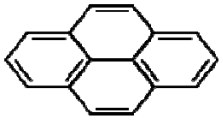
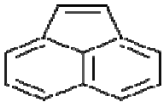
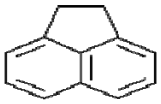
Soil Gas

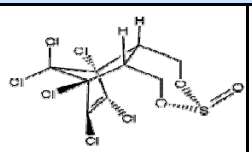
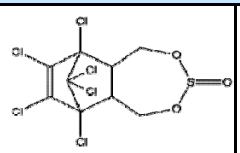
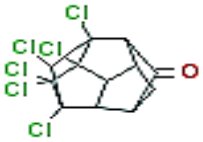
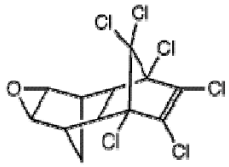
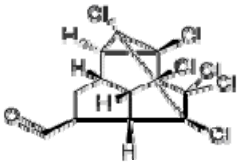
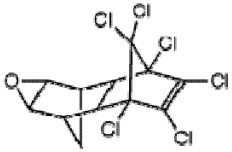
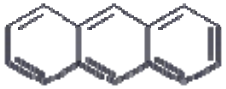
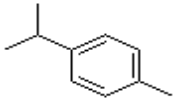
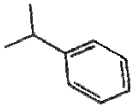
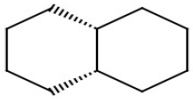
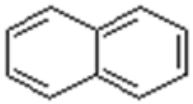
PCR CAS No.	Chemical Name	Surrogate	Surrogate CAS No.
106-97-8	N-BUTANE	n-Pentane	109-66-0
107-83-5	2-Methylpentane	n-Pentane	109-66-0
111-71-7	Heptanal	2-Hexanone	591-78-6
124-13-0	Octanal	2-Hexanone	591-78-6
179601-23-1	m,p-Xylenes	m-xylene	108-38-3
463-58-1	Carbonyl Sulfide	none	none
540-84-1	2,2,4-TRIMETHYLPENTANE	n-Pentane	109-66-0
565-59-3	2,3-Dimethylpentane	n-Pentane	109-66-0
5989-27-5	d-Limonene	none	none
622-96-8	4-Ethyltoluene	Ethylbenzene	100-41-4
64-17-5	Ethanol	none	none
66-25-1	Hexanal	2-Hexanone	591-78-6
79-29-8	2,3-Dimethylbutane	n-Pentane	109-66-0
80-56-8	alpha-Pinene	none	none
96-14-0	3-Methylpentane	n-Pentane	109-66-0
96-37-7	METHYLCYCLOPENTANE	n-Hexane	100-54-3

[a] List of chemicals that were detected but an appropriate toxicity value could not be found.

ASCON Chemicals of Potential Concern Screening

INFORMATION SUPPORTING CHOICE OF SURROGATES

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
1031-07-8	ENDOSULFAN SULFATE		Endosulfan		Endosulfan	Endosulfan is parent compound. Endosulfan sulfate is a breakdown product of Endosulfan and has similarity in structure.
135-98-8	(1-METHYLPROPYL)BENZENE; synonyms: sec-Butylbenzene; 2-phenylbutane				(not needed)	Listed in USEPA 2004 Region IX PRG Table: Oral RfD = 4.0E-2 mg/kg-day; inhalation RfDi = 4.0E-2 mg/kg-day (route-to-route extrap), or RfC = 1.4E-1 mg/cu m.
191-24-2	Benzo(g,h,i)perylene		Pyrene		Pyrene	Both pyrene and benzo(g,h,i)perylene have ≥4 rings.
208-96-8	ACENAPHTHYLENE		Acenaphthene		Acenaphthene	Acenaphthylene and acenaphthene have similar structures, where the latter is the oxidation product of acenaphthylene.

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
33213-65-9	ENDOSULFAN II		Endosulfan		Endosulfan	Endosulfan is parent compound and has similarity in structure.
53494-70-5	ENDRIN KETONE		Endrin		Endrin	Endrin ketone is a breakdown product of endrin and has similarity in structure.
7421-93-4	ENDRIN ALDEHYDE		Endrin		Endrin	Endrin aldehyde is a breakdown product of endrin and has similarity in structure.
85-01-8	PHENANTHRENE		Anthracene		Anthracene	Anthracene and phenanthrene are both 3-ring structures.
99-87-6	p-Isopropyltoluene (p-Cymene)		Cumene		Cumene	Cumene and Cymene are similar in structure.
91-17-8	Decahydronaphthalene (Decalin)		Naphthalene		Naphthalene	Parent compound and similar in structure.

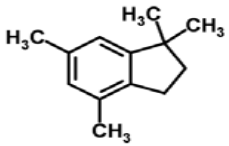
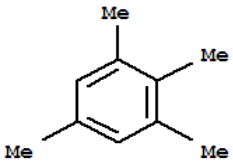
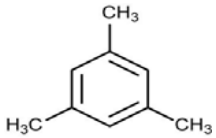
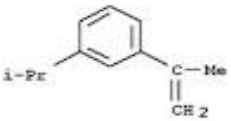
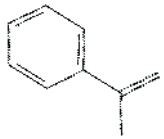
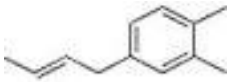
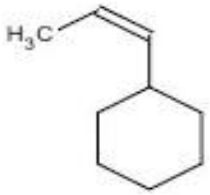
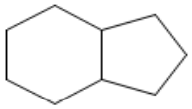
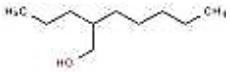
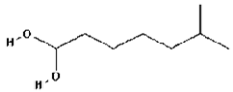
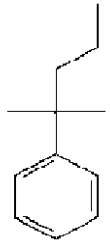
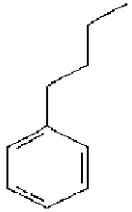
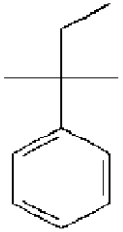
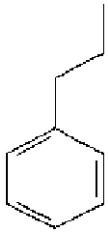
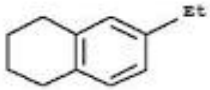
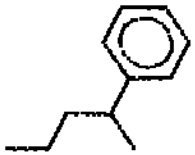
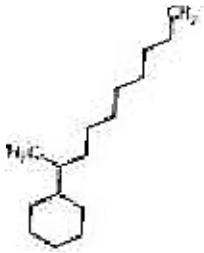
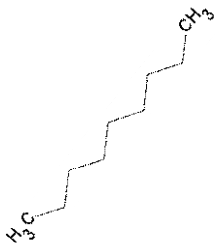
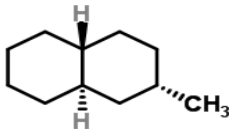
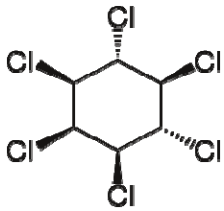
PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
941-60-6	1,1,4,6-Tetramethyl indane		Indane		none	No suitable surrogate.
527-53-7	1,2,3,5-tetramethylbenzene		1,3,5-trimethylbenzene		1,3,5-trimethylbenzene	More similar in structure than 1,2,4-trimethylbenzene.
5557-93-7	1(1-Methylethenyl)-2-(1-methylethyl) benzene [structure shown is 1(1-Methylethenyl)-3-(1-methylethyl) benzene; "i-Pr" = isopropyl; "Me" = methyl]				alpha-Methylstyrene (98-83-9)	Alpha-methylstyrene cited by EPA's DSSTox database as having 80.5% structural similarity (note 1).
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE				n-Butylbenzene (104-51-8)	Based on structural similarity and availability of toxicity values.

Table 8 — Toxicity Surrogate Supporting Information

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
5364-83-0	(1-PROPENYL)CYCLOHEXANE				n-Nonane	Nonene (CAS no. 27215-95-8) cited by EPA's DSSTox Database as having 86.3% structural similarity to (1-propenyl)-cyclohexane (note 1). Toxicity values only available for n-nonane, which is structurally similar to nonene.
496-10-6	OCTAHYDROINDENE		Dicyclopentadiene		none	No satisfactory surrogate available.
10042-59-8	2-PROPYL-1-HEPTANOL				n-Butanol	n-Butanol is longest chain alkyl alcohol for which toxicity values are available from IRIS or USEPA Region IX.
1653-40-3	6-METHYL-1,1-HEPTANOL (6-methylheptane-1,1-diol)				n-Butanol	n-Butanol is longest chain alkyl alcohol for which toxicity values are available from IRIS or USEPA Region IX.

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE				n-Butylbenzene	n-Butylbenzene cited by EPA's DSSTox database as having 96.7% structural similarity to (1,1-dimethylbutyl) benzene (note 1).
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE (tertiary-amylbenzene)				Propylbenzene	n-Propylbenzene cited by EPA's DSSTox database as having 96.2% structural similarity to (1,1-dimethylpropyl) bezene (note 1).
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE (6-ethyl THN)				2-Methylnaphthalene	Toxicity values are available for naphthalene and 1-methyl- and 2-methylnapthalenes. The latter was selected because it most closely resembled 6-ethyl THN.

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE (structure shown is 1-(1-methylethenyl)-4-isopropylbenzene: CAS #2388-14-9				Methyl styrene (mixed isomers; CAS: 25013-15-4). [Alpha-Methylstyrene (98-83-9) shown]	Alpha-methylstyrene cited by EPA's DSSTox database as having 72.5% structural similarity (note 1). Toxicity values available for surrogate on USEPA Reg IX RSL table.
26952-21-6	ISOOCTANOL				n-Butanol	n-Butanol is longest chain alkyl alcohol for which toxicity values are available from IRIS or USEPA Region IX.
2719-52-0	(1-METHYLBUTYL)BENZENE				n-Butylbenzene	n-Butylbenzene cited by EPA's DSSTox database as having 96.7% structural similarity to (1-methylbutyl)benzene (note 1).
2883-05-8	2-CYCLOHEXYLDECANE				n-Nonane	n-Nonane cited by EPA's DSSTox database as having 72.7% structural similarity to 2-cyclohexyldecane (note 1).

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
2958-76-1	2-METHYLDECAHYDRO -NAPHTHALENE				none	No satisfactory surrogate available.
68334-30-5	DRO (C13-C22)				none	This is a petroleum mixture. Toxicity values are currently unavailable for such mixtures.
319-86-8	delta-BHC				(see explanation to right)	IRIS lists an oral RfD = 3E-4 mg/kg-d for gamma-BCH (gamma-hexachlorocyclo-hexane), and ATSDR lists an oral RfD = 8E-3 mg/kg-d for alpha-BCH. Recommend derive an RfC for each using route-to-route extrapolation, then average these two values to attain surrogate RfC for delta-BHC.

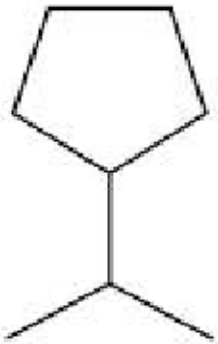
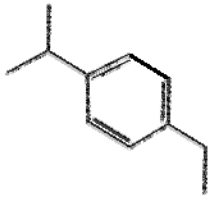
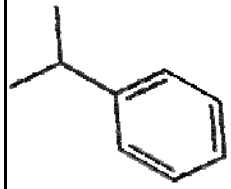
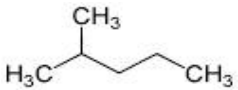
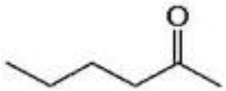
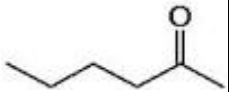
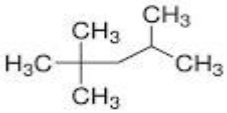
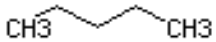
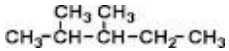
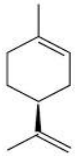
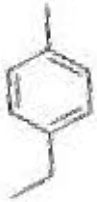
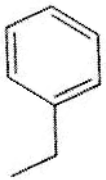
PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
3875-51-2	1-METHYLETHYLCYCLOPENTANE (isopropylpentane)				n-nonane	Heptane cited by EPA's DSSTox database as having 63.6% structural similarity (note 1), but no toxicity values available for heptane. Toxicity values are available for n-nonane (C9), and it has only one more carbon than isopropylpentane.
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE				Cumene	1-Ethyl-4-(1-methylethyl)benzene cited by EPA's DSSTox database as having 88% structural similarity to cumene (note 1).
7446-09-5	SULFUR DIOXIDE				none	Sulfur dioxide is a criteria pollutant for which acute toxicity values are available. However, no chronic toxicity values for use in risk assessment are available.

Table 8 — Toxicity Surrogate Supporting Information

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
8006-61-9	GRO (C6 - C12)				none	This is a petroleum mixture. Toxicity values are currently unavailable for such mixtures.
106-97-8	N-BUTANE				n-Pentane	Pentane cited by EPA's DSSTox database as having 80% structural similarity to n-butane (note 1).
107-83-5	2-Methylpentane				n-Pentane	Pentane cited by EPA's DSSTox database as having 83.3% structural similarity to 2-methylpentane (note 1).
111-71-7	Heptanal				2-Hexanone	2-Hexanone cited by EPA's DSSTox database as having 85.7% structural similarity to heptanal (note 1).
124-13-0	Octanal				2-Hexanone	2-Hexanone surrogate chosen using same reasoning as for heptanal because heptanal is structurally similar to octanal.

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
463-58-1	Carbonyl Sulfide				none	No suitable surrogate.
540-84-1	2,2,4-TRIMETHYLPENTANE				n-Pentane	Pentane cited by EPA's DSSTox database as having 83.3% structural similarity to trimethylpentane (note 1).
565-59-3	2,3-Dimethylpentane				n-Pentane	Pentane cited by EPA's DSSTox database as having 83.3% structural similarity to trimethylpentane (note 1).
5989-27-5	d-Limonene				none	No suitable surrogate.
622-96-8	4-Ethyltoluene				Ethylbenzene	Ethylbenzene cited by EPA's DSSTox database as having 91.3% structural similarity to 4-ethyltoluene (note 1).

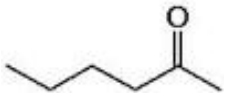
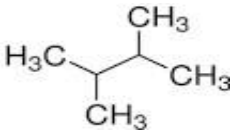
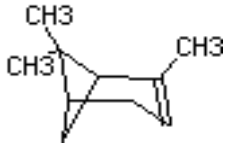
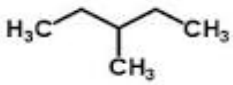
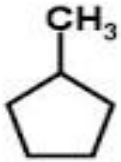
PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
64-17-5	Ethanol				none	Ethanol is a naturally-occurring, low toxicity chemical that is not typically evaluated in heatlh risk assessments. Therefore, a surrogate was not sought for this compound.
66-25-1	Hexanal				2-Hexanone	2-Hexanone cited by EPA's DSSTox database as having 85.7% structural similarity to hexanal (note 1).
79-29-8	2,3-Dimethylbutane				n-Pentane	Pentane is closest related hydrocarbon structure to 2,3-dimethylbutane for which a toxicity value is available.
80-56-8	alpha-Pinene				none	No suitable surrogate.

Table 8 — Toxicity Surrogate Supporting Information

PCR CAS No.	Analyte	Structure	Parent or Structurally-related Compound	Parent or Related Compound Structure	Surrogate	Reason for Surrogate Choice
96-14-0	3-Methylpentane				n-Pentane	Pentane cited by EPA's DSSTox database as having 83.3% structural similarity to 3-methylpentane (note 1).
96-37-7	METHYLCYCLOPENTANE				n-Hexane	n-Hexane cited by EPA's DSSTox database as having 66.6% structural similarity to methylcyclopentane (note 1).

Note-1: EPA's Distributed Structure-Searchable Toxicity (DSSTox) Database Network is a project of EPA's National Center for Computational Toxicology, helping to build a public data foundation for improved structure-activity and predictive toxicology capabilities. The DSSTox website provides a public forum for publishing downloadable, structure-searchable, standardized chemical structure files associated with chemical inventories or toxicity data sets of environmental relevance. Available at: http://www.epa.gov/ncct/dsstox/index.html.

ASCON Chemicals of Potential Concern Screening

List of Chemicals Excluded from Further Analysis

Alternative 4 - Non-Pit F Samples

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
100-01-6	4-Nitroaniline	107	0	107	All Samples ND
100-01-6	4-Nitroaniline	10	0	10	All Samples ND,DL>Screen+ND
100-02-7	4-Nitrophenol	117	0	117	All Samples ND
100-51-6	Benzyl alcohol	117	0	117	All Samples ND
10061-01-5	c-1,3-Dichloropropene	154	0	154	All Samples ND
10061-02-6	t-1,3-Dichloropropene	165	0	165	All Samples ND
101-55-3	4-Bromophenyl phenyl ether	117	0	117	All Samples ND
1024-57-3	Heptachlor epoxide	16	0	16	DL>Screen+ND
103-33-3	1,2-Diphenylhydrazine/Azobenzene	66	0	66	All Samples ND
103-33-3	1,2-Diphenylhydrazine/Azobenzene	10	0	10	All Samples ND,DL>Screen+ND
105-67-9	2,4-Dimethylphenol	117	0	117	All Samples ND
106-43-4	4-Chlorotoluene	115	0	115	All Samples ND
106-44-5	4-Methylphenol	117	0	117	All Samples ND
106-46-7	1,4-Dichlorobenzene	235	0	235	All Samples ND
106-46-7	1,4-Dichlorobenzene	23	0	23	All Samples ND,DL>Screen+ND
106-47-8	4-Chloroaniline	92	0	92	All Samples ND
106-47-8	4-Chloroaniline	26	0	26	All Samples ND,DL>Screen+ND
106-93-4	1,2-Dibromoethane	11	0	11	DL>Screen+ND
107-06-2	1,2-Dichloroethane	157	0	157	All Samples ND
107-06-2	1,2-Dichloroethane	8	0	8	All Samples ND,DL>Screen+ND
108-05-4	Vinyl Acetate	51	0	51	All Samples ND
108-10-1	4-Methyl-2-Pentanone	51	0	51	All Samples ND
108-60-1	BIS(2-CHLOROISOROPYL)ETHER	102	0	102	All Samples ND
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	15	0	15	All Samples ND,DL>Screen+ND
108-86-1	Bromobenzene	115	0	115	All Samples ND
110-75-8	2-CHLOROETHYLVINYL ETHER	35	0	35	All Samples ND
11096-82-5	Aroclor 1260	29	0	29	DL>Screen+ND

Table 9 — [Alternative 4, Non-Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
11097-69-1	Aroclor 1254	29	0	29	DL>Screen+ND
11104-28-2	Aroclor 1221	70	0	70	All Samples ND
11104-28-2	Aroclor 1221	32	0	32	All Samples ND,DL>Screen+ND
11141-16-5	Aroclor 1232	73	0	73	All Samples ND
11141-16-5	Aroclor 1232	29	0	29	All Samples ND,DL>Screen+ND
111-44-4	BIS(2-CHLOROETHYL) ETHER	39	0	39	All Samples ND
111-44-4	BIS(2-CHLOROETHYL) ETHER	78	0	78	All Samples ND,DL>Screen+ND
111-91-1	Bis(2-chloroethoxy) methane	117	0	117	All Samples ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	3	0	3	DL>Screen+ND
117-84-0	Di-n-octyl phthalate	117	0	117	All Samples ND
118-74-1	Hexachlorobenzene	46	0	46	All Samples ND
118-74-1	Hexachlorobenzene	71	0	71	All Samples ND,DL>Screen+ND
120-82-1	1,2,4-Trichlorobenzene	3	0	3	DL>Screen+ND
120-83-2	2,4-Dichlorophenol	117	0	117	All Samples ND
121-14-2	2,4-Dinitrotoluene	82	0	82	All Samples ND
121-14-2	2,4-Dinitrotoluene	35	0	35	All Samples ND,DL>Screen+ND
124-48-1	CHLORODIBROMOMETHANE	163	0	163	All Samples ND
124-48-1	CHLORODIBROMOMETHANE	2	0	2	All Samples ND,DL>Screen+ND
124-73-2	1,2-Dibromotetrafluoroethane	13	0	13	All Samples ND
12672-29-6	Aroclor 1248	74	0	74	All Samples ND
12672-29-6	Aroclor 1248	28	0	28	All Samples ND,DL>Screen+ND
12674-11-2	Aroclor 1016	95	0	95	All Samples ND
12674-11-2	Aroclor 1016	7	0	7	All Samples ND,DL>Screen+ND
12789-03-6	Chlordane	3	0	3	DL>Screen+ND
131-11-3	Dimethyl phthalate	117	0	117	All Samples ND
132-64-9	Dibenzofuran	116	0	116	All Samples ND
132-64-9	Dibenzofuran	1	0	1	All Samples ND,DL>Screen+ND
142-28-9	1,3-Dichloropropane	115	0	115	All Samples ND
156-59-2	c-1,2-Dichloroethene	138	0	138	All Samples ND
156-60-5	t-1,2-Dichloroethene	138	0	138	All Samples ND
1634-04-4	Methyl-t-Butyl Ether (MTBE)	13	0	13	All Samples ND

Table 9 — [Alternative 4, Non-Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
193-39-5	Indeno(1,2,3-cd)pyrene	94	0	94	DL>Screen+ND
205-99-2	Benzo(b)fluoranthene	80	0	80	DL>Screen+ND
207-08-9	Benzo(k)fluoranthene	28	0	28	DL>Screen+ND
218-01-9	Chrysene	4	0	4	DL>Screen+ND
309-00-2	Aldrin	81	0	81	All Samples ND
309-00-2	Aldrin	27	0	27	All Samples ND,DL>Screen+ND
319-84-6	alpha-BHC	16	0	16	DL>Screen+ND
319-85-7	beta-BHC	7	0	7	DL>Screen+ND
319-86-8	delta-BHC	108	0	108	All Samples ND
50-29-3	4,4'-DDT	4	0	4	DL>Screen+ND
50-32-8	Benzo(a)pyrene	118	0	118	DL>Screen+ND
5103-71-9	ALPHA-CHLORDANE	14	0	14	All Samples ND
5103-74-2	GAMMA-CHLORDANE	2	0	2	DL>Screen+ND
51-28-5	2,4-Dinitrophenol	116	0	116	All Samples ND
51-28-5	2,4-Dinitrophenol	1	0	1	All Samples ND,DL>Screen+ND
534-52-1	4,6-Dinitro-2-methylphenol	89	0	89	All Samples ND
534-52-1	4,6-Dinitro-2-methylphenol	28	0	28	All Samples ND,DL>Screen+ND
53469-21-9	Aroclor 1242	74	0	74	All Samples ND
53469-21-9	Aroclor 1242	28	0	28	All Samples ND,DL>Screen+ND
53-70-3	Dibenz(a,h)anthracene	120	0	120	DL>Screen+ND
540-59-0	1,2-DICHLOROETHENE (TOTAL)	27	0	27	All Samples ND
541-73-1	1,3-Dichlorobenzene	258	0	258	All Samples ND
56-23-5	Carbon Tetrachloride	162	0	162	All Samples ND
56-23-5	Carbon Tetrachloride	3	0	3	All Samples ND,DL>Screen+ND
563-58-6	1,1-Dichloropropene	115	0	115	All Samples ND
56-55-3	BENZ[A]ANTHRACENE	79	0	79	DL>Screen+ND
57-12-5	CYANIDE, EPA 335.2	21	0	21	All Samples ND
58-89-9	gamma-BHC (Lindane)	5	0	5	DL>Screen+ND
594-20-7	2,2-Dichloropropane	115	0	115	All Samples ND
59-50-7	4-Chloro-3-methylphenol	117	0	117	All Samples ND
60-57-1	Dieldrin	29	0	29	DL>Screen+ND

Table 9 — [Alternative 4, Non-Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
606-20-2	2,6-Dinitrotoluene	116	0	116	All Samples ND
606-20-2	2,6-Dinitrotoluene	1	0	1	All Samples ND,DL>Screen+ND
621-64-7	N-Nitroso-di-n-propylamine	6	0	6	All Samples ND
621-64-7	N-Nitroso-di-n-propylamine	111	0	111	All Samples ND,DL>Screen+ND
62-53-3	Aniline	100	0	100	All Samples ND
62-53-3	Aniline	1	0	1	All Samples ND,DL>Screen+ND
630-20-6	1,1,1,2-Tetrachloroethane	115	0	115	All Samples ND
65-85-0	Benzoic acid	117	0	117	All Samples ND
67-66-3	Chloroform	156	0	156	All Samples ND
67-66-3	Chloroform	9	0	9	All Samples ND,DL>Screen+ND
67-72-1	Hexachloroethane	111	0	111	All Samples ND
67-72-1	Hexachloroethane	6	0	6	All Samples ND,DL>Screen+ND
6923-20-2	CIS-1,2-DICHLOROPROPENE	11	0	11	All Samples ND
7005-72-3	4-Chlorophenyl phenyl ether	117	0	117	All Samples ND
71-55-6	1,1,1-Trichloroethane	165	0	165	All Samples ND
72-20-8	Endrin	108	0	108	All Samples ND
72-54-8	4,4'-DDD	4	0	4	DL>Screen+ND
72-55-9	4,4'-DDE	3	0	3	DL>Screen+ND
7440-28-0	Thallium	106	0	106	DL>Screen+ND
74-83-9	Bromomethane	166	0	166	All Samples ND
74-87-3	Chloromethane	166	0	166	All Samples ND
74-95-3	Dibromomethane	115	0	115	All Samples ND
74-97-5	Bromochloromethane	115	0	115	All Samples ND
75-00-3	Chloroethane	166	0	166	All Samples ND
75-01-4	Vinyl Chloride	144	0	144	All Samples ND
75-01-4	Vinyl Chloride	22	0	22	All Samples ND,DL>Screen+ND
75-25-2	Bromoform	165	0	165	All Samples ND
75-27-4	Bromodichloromethane	156	0	156	All Samples ND
75-27-4	Bromodichloromethane	9	0	9	All Samples ND,DL>Screen+ND
75-34-3	1,1-Dichloroethane	150	0	150	All Samples ND
75-71-8	Dichlorodifluoromethane	115	0	115	All Samples ND

Table 9 — [Alternative 4, Non-Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	13	0	13	All Samples ND
76-44-8	Heptachlor	13	0	13	DL>Screen+ND
77-47-4	Hexachlorocyclopentadiene	117	0	117	All Samples ND
78-00-2	Organic Lead	6	0	6	DL>Screen+ND
78-59-1	Isophorone	117	0	117	All Samples ND
78-87-5	1,2-Dichloropropane	164	0	164	All Samples ND
78-87-5	1,2-Dichloropropane	1	0	1	All Samples ND,DL>Screen+ND
79-00-5	1,1,2-Trichloroethane	165	0	165	All Samples ND
79-01-6	Trichloroethene	164	0	164	All Samples ND
79-01-6	Trichloroethene	1	0	1	All Samples ND,DL>Screen+ND
79-34-5	1,1,2,2-Tetrachloroethane	1	0	1	DL>Screen+ND
8001-35-2	Toxaphene	73	0	73	All Samples ND
8001-35-2	Toxaphene	35	0	35	All Samples ND,DL>Screen+ND
84-66-2	Diethyl phthalate	117	0	117	All Samples ND
85-68-7	BENZYL BUTYL PHTHALATE	1	0	1	DL>Screen+ND
86-30-6	N-Nitrosodiphenylamine	116	0	116	All Samples ND
86-30-6	N-Nitrosodiphenylamine	1	0	1	All Samples ND,DL>Screen+ND
87-68-3	Hexachlorobutadiene	210	0	210	All Samples ND
87-68-3	Hexachlorobutadiene	9	0	9	All Samples ND,DL>Screen+ND
87-86-5	Pentachlorophenol	52	0	52	All Samples ND
87-86-5	Pentachlorophenol	65	0	65	All Samples ND,DL>Screen+ND
88-06-2	2,4,6-Trichlorophenol	116	0	116	All Samples ND
88-06-2	2,4,6-Trichlorophenol	1	0	1	All Samples ND,DL>Screen+ND
88-74-4	2-Nitroaniline	117	0	117	All Samples ND
88-75-5	2-Nitrophenol	117	0	117	All Samples ND
91-20-3	Naphthalene	13	0	13	DL>Screen+ND
91-58-7	2-Chloronaphthalene	117	0	117	All Samples ND
91-94-1	3,3'-DICHLOROBENZIDINE	67	0	67	DL>Screen+ND
92-87-5	Benzidine	98	0	98	DL>Screen+ND
95-48-7	2-Methylphenol	118	0	118	All Samples ND
95-49-8	2-Chlorotoluene	115	0	115	All Samples ND

Table 9 — [Alternative 4, Non-Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
95-57-8	2-Chlorophenol	117	0	117	All Samples ND
95-95-4	2,4,5-Trichlorophenol	117	0	117	All Samples ND
959-98-8	Endosulfan I	108	0	108	All Samples ND
96-12-8	1,2-Dibromo-3-Chloropropane	17	0	17	DL>Screen+ND
96-18-4	1,2,3-Trichloropropane	100	0	100	All Samples ND
96-18-4	1,2,3-Trichloropropane	15	0	15	All Samples ND,DL>Screen+ND
98-06-6	tert-Butylbenzene	115	0	115	All Samples ND
98-95-3	Nitrobenzene	101	0	101	All Samples ND
98-95-3	Nitrobenzene	16	0	16	All Samples ND,DL>Screen+ND
99-09-2	3-Nitroaniline	117	0	117	All Samples ND
N/A	Petroleum Mixtures	71	0	71	No Tox Value or Surrogate
N/A	Petroleum Mixtures	274	274	274	No Tox Value or Surrogate

[a] Certain chemicals may be listed multiple times due to multiple reasons for exclusion (All Samples ND, No Toxicity Value or Surrogate Available, etc.)

[b] Reasons for Exclusion Definitions:

All Samples ND = All samples on-site not detected

DL > Screen + ND = Individual Sample is not detected, but the detection limit is greater than the screening level.

No Tox Value or Surrogate = No toxicity value available for chemical or appropriate surrogate could be identified.

ASCON Chemicals of Potential Concern Screening

List of Chemicals Excluded from Further Analysis

Alternative 6 - Non-Pit F Samples

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
100-01-6	4-Nitroaniline	219	0	219	All Samples ND
100-01-6	4-Nitroaniline	31	0	31	All Samples ND,DL>Screen+ND
100-02-7	4-Nitrophenol	250	0	250	Surrogate
100-51-6	Benzyl alcohol	250	0	250	All Samples ND
10061-01-5	c-1,3-Dichloropropene	325	0	325	Surrogate
10061-02-6	t-1,3-Dichloropropene	348	0	348	Surrogate
101-55-3	4-Bromophenyl phenyl ether	250	0	250	Surrogate
1024-57-3	Heptachlor epoxide	25	0	25	DL>Screen+ND
103-33-3	1,2-Diphenylhydrazine/Azobenzene	146	0	146	All Samples ND
103-33-3	1,2-Diphenylhydrazine/Azobenzene	37	0	37	All Samples ND,DL>Screen+ND
106-44-5	4-Methylphenol	250	0	250	All Samples ND
106-46-7	1,4-Dichlorobenzene	62	0	62	DL>Screen+ND
106-47-8	4-Chloroaniline	183	0	183	All Samples ND
106-47-8	4-Chloroaniline	67	0	67	All Samples ND,DL>Screen+ND
106-93-4	1,2-Dibromoethane	68	0	68	DL>Screen+ND
106-99-0	1,3-Butadiene	6	0	6	All Samples ND,DL>Screen+ND
107-06-2	1,2-Dichloroethane	20	0	20	DL>Screen+ND
107-13-1	Acrylonitrile	2	0	2	All Samples ND
107-13-1	Acrylonitrile	4	0	4	All Samples ND,DL>Screen+ND
108-05-4	Vinyl Acetate	72	0	72	All Samples ND
108-10-1	4-Methyl-2-Pentanone	72	0	72	All Samples ND
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	202	0	202	All Samples ND
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	48	0	48	All Samples ND,DL>Screen+ND
108-86-1	Bromobenzene	267	0	267	All Samples ND,
110-75-8	2-CHLOROETHYLVINYL ETHER	58	0	58	Surrogate

Table 10 — [Alternative 6, Non-PitF Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
11096-82-5	Aroclor 1260	56	0	56	DL>Screen+ND
11097-69-1	Aroclor 1254	54	0	54	DL>Screen+ND
11104-28-2	Aroclor 1221	138	0	138	All Samples ND,
11104-28-2	Aroclor 1221	53	0	53	All Samples ND,DL>Screen+ND,
11141-16-5	Aroclor 1232	142	0	142	All Samples ND,
11141-16-5	Aroclor 1232	49	0	49	All Samples ND,DL>Screen+ND,
111-44-4	BIS(2-CHLOROETHYL) ETHER	109	0	109	All Samples ND,
111-44-4	BIS(2-CHLOROETHYL) ETHER	141	0	141	All Samples ND,DL>Screen+ND,
111-91-1	Bis(2-chloroethoxy)methane	250	0	250	All Samples ND,
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	9	0	9	DL>Screen+ND
117-84-0	Di-n-octyl phthalate	250	0	250	Surrogate
118-74-1	Hexachlorobenzene	114	0	114	All Samples ND,
118-74-1	Hexachlorobenzene	136	0	136	All Samples ND,DL>Screen+ND,
120-82-1	1,2,4-Trichlorobenzene	12	0	12	DL>Screen+ND
120-83-2	2,4-Dichlorophenol	250	0	250	All Samples ND,
121-14-2	2,4-Dinitrotoluene	167	0	167	All Samples ND,
121-14-2	2,4-Dinitrotoluene	83	0	83	All Samples ND,DL>Screen+ND,
124-48-1	CHLORODIBROMOMETHANE	341	0	341	All Samples ND,
124-48-1	CHLORODIBROMOMETHANE	8	0	8	All Samples ND,DL>Screen+ND,
124-73-2	1,2-Dibromotetrafluoroethane	26	0	26	Surrogate
12672-29-6	Aroclor 1248	45	0	45	DL>Screen+ND
12674-11-2	Aroclor 1016	11	0	11	DL>Screen+ND
12789-03-6	Chlordane	5	0	5	DL>Screen+ND
131-11-3	Dimethyl phthalate	250	0	250	Surrogate
132-64-9	Dibenzofuran	4	0	4	DL>Screen+ND
142-28-9	1,3-Dichloropropane	267	0	267	All Samples ND,
156-59-2	c-1,2-Dichloroethene	300	0	300	All Samples ND,
156-60-5	t-1,2-Dichloroethene	299	0	299	All Samples ND,

Table 10 — [Alternative 6, Non-PitF Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
1634-04-4	Methyl-t-Butyl Ether (MTBE)	15	0	15	All Samples ND,
193-39-5	Indeno(1,2,3-cd)pyrene	200	0	200	DL>Screen+ND
205-99-2	Benzo(b)fluoranthene	160	0	160	DL>Screen+ND
207-08-9	Benzo(k)fluoranthene	74	0	74	DL>Screen+ND
218-01-9	Chrysene	17	0	17	DL>Screen+ND
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	2	2	2	No Tox Value or Surrogate
309-00-2	Aldrin	157	0	157	All Samples ND,
309-00-2	Aldrin	44	0	44	All Samples ND,DL>Screen+ND,
319-84-6	alpha-BHC	24	0	24	DL>Screen+ND
319-85-7	beta-BHC	11	0	11	DL>Screen+ND
319-86-8	delta-BHC	200	2	200	No Tox Value or Surrogate
50-29-3	4,4'-DDT	6	0	6	DL>Screen+ND
50-32-8	Benzo(a)pyrene	254	0	254	DL>Screen+ND
5103-71-9	ALPHA-CHLORDANE	27	0	27	Surrogate
5103-74-2	GAMMA-CHLORDANE	3	0	3	DL>Screen+ND
51-28-5	2,4-Dinitrophenol	246	0	246	All Samples ND,
51-28-5	2,4-Dinitrophenol	4	0	4	All Samples ND,DL>Screen+ND,
534-52-1	4,6-Dinitro-2-methylphenol	182	0	182	All Samples ND,
534-52-1	4,6-Dinitro-2-methylphenol	68	0	68	All Samples ND,DL>Screen+ND,
53469-21-9	Aroclor 1242	45	0	45	DL>Screen+ND
53-70-3	Dibenz(a,h)anthracene	255	0	255	DL>Screen+ND
540-59-0	1,2-DICHLOROETHENE (TOTAL)	49	0	49	All Samples ND,
541-73-1	1,3-Dichlorobenzene	569	0	569	Surrogate
56-23-5	Carbon Tetrachloride	338	0	338	All Samples ND,
56-23-5	Carbon Tetrachloride	11	0	11	All Samples ND,DL>Screen+ND,
563-58-6	1,1-Dichloropropene	267	0	267	Surrogate
56-55-3	BENZ[A]ANTHRACENE	158	0	158	DL>Screen+ND
57-12-5	CYANIDE, EPA 335.2	37	0	37	All Samples ND,

Table 10 — [Alternative 6, Non-PitF Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
58-89-9	gamma-BHC (Lindane)	7	0	7	DL>Screen+ND
594-20-7	2,2-Dichloropropane	267	0	267	Surrogate
59-50-7	4-Chloro-3-methylphenol	250	0	250	All Samples ND,
60-57-1	Dieldrin	48	0	48	DL>Screen+ND
606-20-2	2,6-Dinitrotoluene	244	0	244	All Samples ND,
606-20-2	2,6-Dinitrotoluene	6	0	6	All Samples ND,DL>Screen+ND,
621-64-7	N-Nitroso-di-n-propylamine	7	0	7	All Samples ND,
621-64-7	N-Nitroso-di-n-propylamine	243	0	243	All Samples ND,DL>Screen+ND,
62-53-3	Aniline	220	0	220	All Samples ND,
62-53-3	Aniline	4	0	4	All Samples ND,DL>Screen+ND,
630-20-6	1,1,1,2-Tetrachloroethane	265	0	265	All Samples ND,
630-20-6	1,1,1,2-Tetrachloroethane	2	0	2	All Samples ND,DL>Screen+ND,
67-66-3	Chloroform	23	0	23	DL>Screen+ND
67-72-1	Hexachloroethane	229	0	229	All Samples ND,
67-72-1	Hexachloroethane	21	0	21	All Samples ND,DL>Screen+ND,
68334-30-5	DRO (C13-C22)	26	5	26	No Tox Value or Surrogate
6923-20-2	CIS-1,2-DICHLOROPROPENE	24	0	24	Surrogate
7005-72-3	4-Chlorophenyl phenyl ether	250	0	250	Surrogate
71-43-2	Benzene	2	0	2	DL>Screen+ND
72-20-8	Endrin	201	0	201	All Samples ND,
72-54-8	4,4'-DDD	6	0	6	DL>Screen+ND
72-55-9	4,4'-DDE	4	0	4	DL>Screen+ND
7440-28-0	Thallium	181	0	181	DL>Screen+ND
7446-09-5	SULFUR DIOXIDE	1	1	1	No Tox Value or Surrogate
74-83-9	Bromomethane	350	0	350	All Samples ND,
74-87-3	Chloromethane	350	0	350	All Samples ND,
74-95-3	Dibromomethane	267	0	267	All Samples ND,
74-97-5	Bromochloromethane	267	0	267	All Samples ND,

Table 10 — [Alternative 6, Non-PitF Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
75-00-3	Chloroethane	350	0	350	All Samples ND,
75-01-4	Vinyl Chloride	269	0	269	All Samples ND,
75-01-4	Vinyl Chloride	80	0	80	All Samples ND,DL>Screen+ND,
75-27-4	Bromodichloromethane	326	0	326	All Samples ND,
75-27-4	Bromodichloromethane	23	0	23	All Samples ND,DL>Screen+ND,
75-71-8	Dichlorodifluoromethane	267	0	267	All Samples ND,
76-44-8	Heptachlor	20	0	20	DL>Screen+ND
77-47-4	Hexachlorocyclopentadiene	250	0	250	All Samples ND,
78-00-2	Organic Lead	18	0	18	DL>Screen+ND
78-59-1	Isophorone	250	0	250	All Samples ND,
78-87-5	1,2-Dichloropropane	343	0	343	All Samples ND,
78-87-5	1,2-Dichloropropane	6	0	6	All Samples ND,DL>Screen+ND,
79-00-5	1,1,2-Trichloroethane	343	0	343	All Samples ND,
79-00-5	1,1,2-Trichloroethane	6	0	6	All Samples ND,DL>Screen+ND,
79-01-6	Trichloroethene	343	0	343	All Samples ND,
79-01-6	Trichloroethene	5	0	5	All Samples ND,DL>Screen+ND,
79-34-5	1,1,2,2-Tetrachloroethane	10	0	10	DL>Screen+ND
8001-35-2	Toxaphene	138	0	138	All Samples ND,
8001-35-2	Toxaphene	62	0	62	All Samples ND,DL>Screen+ND,
8006-61-9	GRO (C6 - C12)	197	55	197	No Tox Value or Surrogate
84-66-2	Diethyl phthalate	250	0	250	All Samples ND,
85-68-7	BENZYL BUTYL PHTHALATE	1	0	1	DL>Screen+ND
86-30-6	N-Nitrosodiphenylamine	4	0	4	DL>Screen+ND
87-68-3	Hexachlorobutadiene	467	0	467	All Samples ND,
87-68-3	Hexachlorobutadiene	34	0	34	All Samples ND,DL>Screen+ND,
87-86-5	Pentachlorophenol	124	0	124	All Samples ND,
87-86-5	Pentachlorophenol	126	0	126	All Samples ND,DL>Screen+ND,
88-06-2	2,4,6-Trichlorophenol	243	0	243	All Samples ND,

Table 10 — [Alternative 6, Non-PitF Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
88-06-2	2,4,6-Trichlorophenol	7	0	7	All Samples ND,DL>Screen+ND,
88-74-4	2-Nitroaniline	250	0	250	All Samples ND,
88-75-5	2-Nitrophenol	250	0	250	Surrogate
91-20-3	Naphthalene	39	0	39	DL>Screen+ND
91-58-7	2-Chloronaphthalene	250	0	250	All Samples ND,
91-94-1	3,3'-DICHLOROBENZIDINE	128	0	128	DL>Screen+ND
92-87-5	Benzidine	220	0	220	DL>Screen+ND
95-48-7	2-Methylphenol	250	0	250	All Samples ND,
95-49-8	2-Chlorotoluene	267	0	267	All Samples ND,
95-57-8	2-Chlorophenol	250	0	250	All Samples ND,
95-95-4	2,4,5-Trichlorophenol	250	0	250	All Samples ND,
959-98-8	Endosulfan I	201	0	201	Surrogate
96-12-8	1,2-Dibromo-3-Chloropropane	86	0	86	DL>Screen+ND
96-18-4	1,2,3-Trichloropropane	178	0	178	All Samples ND,
96-18-4	1,2,3-Trichloropropane	89	0	89	All Samples ND,DL>Screen+ND,
98-95-3	Nitrobenzene	200	0	200	All Samples ND,
98-95-3	Nitrobenzene	50	0	50	All Samples ND,DL>Screen+ND,
99-09-2	3-Nitroaniline	250	0	250	Surrogate
NA	Petroleum Mixtures	656	450	656	No CAS Available,No Tox Value or Surrogate

[a] Certain chemicals may be listed multiple times due to multiple reasons for exclusion (All Samples ND, No Toxicity Value or Surrogate Available, etc.)

[b] Reasons for Exclusion Definitions:

All Samples ND = All samples on-site not detected

DL > Screen + ND = Individual Sample is not detected, but the detection limit is greater than the screening level.

No Tox Value or Surrogate = No toxicity value available for chemical or appropriate surrogate could be identified.

ASCON Chemicals of Potential Concern Screening

List of Chemicals Excluded from Further Analysis

Alternative 4&6 - Pit F Samples

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
100-01-6	4-Nitroaniline	4	0	4	All Samples ND,DL>Screen+ND,
100-02-7	4-Nitrophenol	4	0	4	All Samples ND,No Tox Value or Surrogate
100-51-6	Benzyl alcohol	3	0	3	All Samples ND,
100-51-6	Benzyl alcohol	1	0	1	All Samples ND,DL>Screen+ND,
10061-01-5	c-1,3-Dichloropropene	5	0	5	All Samples ND,No Tox Value or Surrogate
10061-02-6	t-1,3-Dichloropropene	5	0	5	All Samples ND,No Tox Value or Surrogate
101-55-3	4-Bromophenyl phenyl ether	4	0	4	All Samples ND,No Tox Value or Surrogate
1024-57-3	Heptachlor epoxide	2	0	2	DL>Screen+ND
103-33-3	1,2-Diphenylhydrazine/Azobenzene	3	0	3	All Samples ND,DL>Screen+ND,
105-67-9	2,4-Dimethylphenol	2	0	2	DL>Screen+ND
106-44-5	4-Methylphenol	4	0	4	All Samples ND,
106-46-7	1,4-Dichlorobenzene	4	0	4	DL>Screen+ND
106-47-8	4-Chloroaniline	4	0	4	All Samples ND,DL>Screen+ND,
106-93-4	1,2-Dibromoethane	3	0	3	DL>Screen+ND
107-06-2	1,2-Dichloroethane	3	0	3	DL>Screen+ND
108-05-4	Vinyl Acetate	2	0	2	All Samples ND,
108-10-1	4-Methyl-2-Pentanone	2	0	2	All Samples ND,
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	4	0	4	All Samples ND,DL>Screen+ND,
108-86-1	Bromobenzene	3	0	3	All Samples ND,
110-75-8	2-CHLOROETHYLVINYL ETHER	1	0	1	All Samples ND,No Tox Value or Surrogate
11096-82-5	Aroclor 1260	3	0	3	DL>Screen+ND
11097-69-1	Aroclor 1254	3	0	3	DL>Screen+ND
11104-28-2	Aroclor 1221	1	0	1	All Samples ND,
11104-28-2	Aroclor 1221	3	0	3	All Samples ND,DL>Screen+ND,
11141-16-5	Aroclor 1232	1	0	1	All Samples ND,
11141-16-5	Aroclor 1232	3	0	3	All Samples ND,DL>Screen+ND,

Table 11 — [Alternative 4/6, Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
111-44-4	**BIS(2-CHLOROETHYL) ETHER**	4	0	4	All Samples ND,DL>Screen+ND,
111-91-1	**Bis(2-chloroethoxy)methane**	4	0	4	All Samples ND,DL>Screen+ND,
117-81-7	**BIS(2-ETHYLHEXYL) PHTHALATE**	3	0	3	DL>Screen+ND
117-84-0	**Di-n-octyl phthalate**	4	0	4	All Samples ND,No Tox Value or Surrogate
118-74-1	**Hexachlorobenzene**	4	0	4	All Samples ND,DL>Screen+ND,
120-82-1	**1,2,4-Trichlorobenzene**	4	0	4	DL>Screen+ND
120-83-2	**2,4-Dichlorophenol**	4	0	4	All Samples ND,DL>Screen+ND,
121-14-2	**2,4-Dinitrotoluene**	4	0	4	All Samples ND,DL>Screen+ND,
124-48-1	**CHLORODIBROMOMETHANE**	4	0	4	All Samples ND,
124-48-1	**CHLORODIBROMOMETHANE**	1	0	1	All Samples ND,DL>Screen+ND,
12672-29-6	**Aroclor 1248**	3	0	3	DL>Screen+ND
12674-11-2	**Aroclor 1016**	1	0	1	DL>Screen+ND
12789-03-6	**Chlordane**	2	0	2	DL>Screen+ND
129-00-0	**Pyrene**	2	0	2	DL>Screen+ND
131-11-3	**Dimethyl phthalate**	4	0	4	All Samples ND,No Tox Value or Surrogate
132-64-9	**Dibenzofuran**	4	0	4	DL>Screen+ND
142-28-9	**1,3-Dichloropropane**	3	0	3	All Samples ND,
156-59-2	**c-1,2-Dichloroethene**	4	0	4	All Samples ND,
156-60-5	**t-1,2-Dichloroethene**	4	0	4	All Samples ND,
191-24-2	**Benzo(g,h,i)perylene**	1	0	1	DL>Screen+ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	4	0	4	DL>Screen+ND
205-99-2	**Benzo(b)fluoranthene**	4	0	4	DL>Screen+ND
206-44-0	**Fluoranthene**	1	0	1	DL>Screen+ND
207-08-9	**Benzo(k)fluoranthene**	4	0	4	DL>Screen+ND
208-96-8	**Acenaphthylene**	1	0	1	DL>Screen+ND
218-01-9	**Chrysene**	4	0	4	DL>Screen+ND
309-00-2	**Aldrin**	1	0	1	All Samples ND,
309-00-2	**Aldrin**	2	0	2	All Samples ND,DL>Screen+ND,
319-84-6	**alpha-BHC**	2	0	2	DL>Screen+ND

Table 11 — [Alternative 4/6, Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
319-85-7	**beta-BHC**	2	0	2	DL>Screen+ND
319-86-8	**delta-BHC**	2	0	2	No Tox Value or Surrogate
50-32-8	**Benzo(a)pyrene**	4	0	4	DL>Screen+ND
51-28-5	**2,4-Dinitrophenol**	4	0	4	All Samples ND,DL>Screen+ND,
534-52-1	**4,6-Dinitro-2-methylphenol**	4	0	4	All Samples ND,DL>Screen+ND,
53469-21-9	**Aroclor 1242**	3	0	3	DL>Screen+ND
53-70-3	**Dibenz(a,h)anthracene**	4	0	4	DL>Screen+ND
540-59-0	**1,2-DICHLOROETHENE (TOTAL)**	1	0	1	All Samples ND,
541-73-1	**1,3-Dichlorobenzene**	7	0	7	All Samples ND,No Tox Value or Surrogate
56-23-5	**Carbon Tetrachloride**	4	0	4	All Samples ND,
56-23-5	**Carbon Tetrachloride**	1	0	1	All Samples ND,DL>Screen+ND,
563-58-6	**1,1-Dichloropropene**	3	0	3	All Samples ND,No Tox Value or Surrogate
56-55-3	**BENZ[A]ANTHRACENE**	4	0	4	DL>Screen+ND
58-89-9	**gamma-BHC (Lindane)**	1	0	1	DL>Screen+ND
594-20-7	**2,2-Dichloropropane**	3	0	3	All Samples ND,No Tox Value or Surrogate
59-50-7	**4-Chloro-3-methylphenol**	4	0	4	All Samples ND,
60-57-1	**Dieldrin**	2	0	2	DL>Screen+ND
606-20-2	**2,6-Dinitrotoluene**	4	0	4	All Samples ND,DL>Screen+ND,
621-64-7	**N-Nitroso-di-n-propylamine**	4	0	4	All Samples ND,DL>Screen+ND,
62-53-3	**Aniline**	3	0	3	All Samples ND,DL>Screen+ND,
630-20-6	**1,1,1,2-Tetrachloroethane**	3	0	3	All Samples ND,
67-66-3	**Chloroform**	4	0	4	DL>Screen+ND
67-72-1	**Hexachloroethane**	4	0	4	All Samples ND,DL>Screen+ND,
7005-72-3	**4-Chlorophenyl phenyl ether**	4	0	4	All Samples ND,No Tox Value or Surrogate
71-43-2	**Benzene**	1	0	1	DL>Screen+ND
72-20-8	**Endrin**	3	0	3	All Samples ND,
7440-28-0	**Thallium**	3	0	3	DL>Screen+ND
74-83-9	**Bromomethane**	5	0	5	All Samples ND,
74-87-3	**Chloromethane**	5	0	5	All Samples ND,

Table 11 — [Alternative 4/6, Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
74-95-3	**Dibromomethane**	3	0	3	All Samples ND,
74-97-5	**Bromochloromethane**	3	0	3	All Samples ND,
75-00-3	**Chloroethane**	5	0	5	All Samples ND,
75-01-4	**Vinyl Chloride**	5	0	5	All Samples ND,DL>Screen+ND,
75-27-4	**Bromodichloromethane**	5	0	5	All Samples ND,DL>Screen+ND,
75-71-8	**Dichlorodifluoromethane**	3	0	3	All Samples ND,
76-44-8	**Heptachlor**	2	0	2	DL>Screen+ND
77-47-4	**Hexachlorocyclopentadiene**	4	0	4	All Samples ND,DL>Screen+ND,
78-59-1	**Isophorone**	1	0	1	All Samples ND,
78-59-1	**Isophorone**	3	0	3	All Samples ND,DL>Screen+ND,
78-87-5	**1,2-Dichloropropane**	4	0	4	All Samples ND,
78-87-5	**1,2-Dichloropropane**	1	0	1	All Samples ND,DL>Screen+ND,
79-00-5	**1,1,2-Trichloroethane**	3	0	3	All Samples ND,
79-00-5	**1,1,2-Trichloroethane**	2	0	2	All Samples ND,DL>Screen+ND,
79-01-6	**Trichloroethene**	4	0	4	All Samples ND,
79-01-6	**Trichloroethene**	1	0	1	All Samples ND,DL>Screen+ND,
79-34-5	**1,1,2,2-Tetrachloroethane**	4	0	4	DL>Screen+ND
8001-35-2	**Toxaphene**	1	0	1	All Samples ND,
8001-35-2	**Toxaphene**	2	0	2	All Samples ND,DL>Screen+ND,
8006-61-9	**GRO (C6 - C12)**	2	2	2	No Tox Value or Surrogate
84-66-2	**Diethyl phthalate**	4	0	4	All Samples ND,
85-68-7	**BENZYL BUTYL PHTHALATE**	4	0	4	DL>Screen+ND
86-30-6	**N-Nitrosodiphenylamine**	4	0	4	DL>Screen+ND
86-73-7	**Fluorene**	1	0	1	DL>Screen+ND
87-68-3	**Hexachlorobutadiene**	3	0	3	All Samples ND,
87-68-3	**Hexachlorobutadiene**	4	0	4	All Samples ND,DL>Screen+ND,
87-86-5	**Pentachlorophenol**	4	0	4	All Samples ND,DL>Screen+ND,
88-06-2	**2,4,6-Trichlorophenol**	4	0	4	All Samples ND,DL>Screen+ND,
88-74-4	**2-Nitroaniline**	4	0	4	All Samples ND,DL>Screen+ND,

Table 11 — [Alternative 4/6, Pit F Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
88-75-5	**2-Nitrophenol**	4	0	4	All Samples ND,No Tox Value or Surrogate
91-20-3	**Naphthalene**	4	0	4	DL>Screen+ND
91-57-6	**2-Methylnaphthalene**	4	0	4	DL>Screen+ND
91-58-7	**2-Chloronaphthalene**	4	0	4	All Samples ND,
91-94-1	**3,3'-DICHLOROBENZIDINE**	4	0	4	DL>Screen+ND
92-87-5	**Benzidine**	3	0	3	DL>Screen+ND
95-48-7	**2-Methylphenol**	3	0	3	All Samples ND,
95-48-7	**2-Methylphenol**	1	0	1	All Samples ND,DL>Screen+ND,
95-49-8	**2-Chlorotoluene**	3	0	3	All Samples ND,
95-50-1	**1,2-Dichlorobenzene**	1	0	1	DL>Screen+ND
95-57-8	**2-Chlorophenol**	4	0	4	All Samples ND,DL>Screen+ND,
95-95-4	**2,4,5-Trichlorophenol**	4	0	4	All Samples ND,
959-98-8	**Endosulfan I**	2	0	2	All Samples ND,No Tox Value or Surrogate
96-12-8	**1,2-Dibromo-3-Chloropropane**	3	0	3	DL>Screen+ND
96-18-4	**1,2,3-Trichloropropane**	3	0	3	All Samples ND,DL>Screen+ND,
98-95-3	**Nitrobenzene**	4	0	4	All Samples ND,DL>Screen+ND,
99-09-2	**3-Nitroaniline**	4	0	4	All Samples ND,No Tox Value or Surrogate
NA	**Petroleum Mixtures**	10	10	10	No CAS Available,No Tox Value or Surrogate

[a] Certain chemicals may be listed multiple times due to multiple reasons for exclusion (All Samples ND,

[b] Reasons for Exclusion Definitions:

All Samples ND = All samples on-site not detected

DL > Screen + ND = Individual Sample is not detected, but the detection limit is greater than the screening level.

No Tox Value or Surrogate = No toxicity value available for chemical or appropriate surrogate could be identified.

ASCON Chemicals of Potential Concern Screening

List of Chemicals of Potential Concern (COPC)

Alternative 4 - Non-Pit F Data

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
100-41-4	Ethylbenzene	167	31	136	0	0	167
100-42-5	Styrene	154	3	151	0	0	154
1024-57-3	Heptachlor epoxide	108	2	106	16	0	92
1031-07-8	Endosulfan sulfate	108	2	106	0	0	108
103-65-1	n-Propylbenzene	115	16	99	0	0	115
104-51-8	n-Butylbenzene	115	5	110	0	0	115
106-42-3	P-XYLENE	11	1	10	0	0	11
106-93-4	1,2-Dibromoethane	115	1	114	11	0	104
108-38-3	M-XYLENE	11	2	9	0	0	11
108-67-8	1,3,5-Trimethylbenzene	115	10	105	0	0	115
108-88-3	Toluene	167	39	128	0	0	167
108-90-7	Chlorobenzene	179	1	178	0	0	179
108-95-2	Phenol	116	1	115	0	0	116
11096-82-5	Aroclor 1260	102	6	96	29	0	73
11097-69-1	Aroclor 1254	102	1	101	29	0	73
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	116	14	102	3	0	113
120-12-7	Anthracene	131	2	129	0	0	131
120-82-1	1,2,4-Trichlorobenzene	232	1	231	3	0	229
127-18-4	Tetrachloroethene	165	2	163	0	0	165
12789-03-6	Chlordane	94	3	91	3	0	91
129-00-0	Pyrene	130	17	113	0	0	130
1330-20-7	XYLENES (TOTAL)	41	15	26	0	0	41
135-98-8	(1-METHYLPROPYL)BENZENE	115	13	102	0	0	115
179601-23-1	m,p-Xylenes	115	10	105	0	0	115
18540-29-9	Chromium (VI)	75	3	72	0	0	75
191-24-2	Benzo(g,h,i)perylene	130	7	123	0	0	130
193-39-5	Indeno(1,2,3-cd)pyrene	130	5	125	94	0	36
205-99-2	Benzo(b)fluoranthene	130	8	122	80	0	50
206-44-0	Fluoranthene	130	9	121	0	0	130
207-08-9	Benzo(k)fluoranthene	130	4	126	28	0	102
208-96-8	Acenaphthylene	130	1	129	0	0	130

Table 12 — [Alternative 4, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
218-01-9	Chrysene	130	12	118	4	0	126
319-84-6	alpha-BHC	108	1	107	16	0	92
319-85-7	beta-BHC	108	1	107	7	0	101
33213-65-9	Endosulfan II	108	1	107	0	0	108
50-29-3	4,4'-DDT	108	11	97	4	0	104
50-32-8	Benzo(a)pyrene	130	7	123	118	0	12
5103-74-2	GAMMA-CHLORDANE	14	1	13	2	0	12
53494-70-5	Endrin ketone	89	3	86	0	0	89
53-70-3	Dibenz(a,h)anthracene	130	1	129	120	0	10
56-55-3	BENZ[A]ANTHRACENE	130	6	124	79	0	51
58-89-9	gamma-BHC (Lindane)	108	1	107	5	0	103
591-78-6	2-Hexanone	51	1	50	0	0	51
60-57-1	Dieldrin	108	3	105	29	0	79
67-64-1	2-PROPANONE	54	21	33	0	0	54
71-43-2	Benzene	167	17	150	0	0	167
72-43-5	Methoxychlor	108	1	107	0	0	108
72-54-8	4,4'-DDD	107	10	97	4	0	103
72-55-9	4,4'-DDE	109	14	95	3	0	106
7421-93-4	Endrin aldehyde	94	5	89	0	0	94
7439-92-1	Lead	145	122	23	0	0	145
7439-97-6	Mercury	111	68	43	0	0	111
7439-98-7	Molybdenum	127	31	96	0	0	127
7440-02-0	Nickel	132	131	1	0	0	132
7440-22-4	Silver	142	10	132	0	0	142
7440-28-0	Thallium	131	13	118	106	0	25
7440-36-0	Antimony	131	32	99	0	0	131
7440-38-2	Arsenic	141	103	38	0	0	141
7440-39-3	Barium	142	141	1	0	0	142
7440-41-7	Beryllium	131	78	53	0	0	131
7440-43-9	Cadmium	143	44	99	0	0	143
7440-47-3	Chromium	143	142	1	0	0	143
7440-48-4	Cobalt	127	125	2	0	0	127
7440-50-8	Copper	132	131	1	0	0	132
7440-62-2	Vanadium	130	127	3	0	0	130
7440-66-6	Zinc	133	132	1	0	0	133
75-09-2	Methylene Chloride	167	7	160	0	0	167

Table 12 — [Alternative 4, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
75-15-0	Carbon Disulfide	51	0	51	0	0	51
75-35-4	1,1-Dichloroethene	180	1	179	0	0	180
75-69-4	Trichlorofluoromethane	152	3	149	0	0	152
76-44-8	Heptachlor	108	3	105	13	0	95
7782-49-2	Selenium	142	19	123	0	0	142
78-00-2	Organic Lead	52	16	36	6	0	46
78-93-3	2-Butanone	51	12	39	0	0	51
79-34-5	1,1,2,2-Tetrachloroethane	165	1	164	1	0	164
83-32-9	Acenaphthene	129	2	127	0	0	129
84-74-2	Di-n-butyl phthalate	117	14	103	0	0	117
85-01-8	Phenanthrene	130	17	113	0	0	130
85-68-7	BENZYL BUTYL PHTHALATE	117	1	116	1	0	116
86-73-7	Fluorene	130	3	127	0	0	130
87-61-6	1,2,3-Trichlorobenzene	115	2	113	0	0	115
91-20-3	Naphthalene	245	31	214	13	0	232
91-57-6	2-Methylnaphthalene	117	16	101	0	0	117
91-94-1	3,3'-DICHLOROBENZIDINE	117	1	116	67	0	50
92-87-5	Benzidine	101	3	98	98	0	3
95-47-6	o-Xylene	126	13	113	0	0	126
95-50-1	1,2-Dichlorobenzene	258	3	255	0	0	258
95-63-6	1,2,4-Trimethylbenzene	115	18	97	0	0	115
96-12-8	1,2-Dibromo-3-Chloropropane	115	1	114	17	0	98
98-82-8	1-METHYLETHYLBENZENE	115	16	99	0	0	115
99-87-6	p-Isopropyltoluene	115	12	103	0	0	115

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.
[b] Number of times chemical was detected in analysis
[c] Number of times sample was analyzed, chemical was not detected in analysis
[d] Number of records excluded. Reasons for exclusion are provided in Table 5
[e] Total number of records which are usable (total records minus excluded data)

ASCON Chemicals of Potential Concern Screening

List of Chemicals of Potential Concern (COPC)

Alternative 6 - Non-Pit F Data

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
100-41-4	Ethylbenzene	354	112	242	0	0	354
100-42-5	Styrene	324	15	309	0	0	324
10042-59-8	2-PROPYL-1-HEPTANOL	1	1	0	0	0	1
1024-57-3	Heptachlor epoxide	201	3	198	25	0	176
1031-07-8	Endosulfan sulfate	201	2	199	0	0	201
103-65-1	n-Propylbenzene	269	86	183	0	0	269
104-51-8	n-Butylbenzene	266	26	240	0	0	266
105-67-9	2,4-Dimethylphenol	250	1	249	0	0	250
106-42-3	P-XYLENE	20	2	18	0	0	20
106-43-4	4-Chlorotoluene	267	2	265	0	0	267
106-46-7	1,4-Dichlorobenzene	569	1	568	62	0	507
106-93-4	1,2-Dibromoethane	267	1	266	68	0	199
107-06-2	1,2-Dichloroethane	351	2	349	20	0	331
108-38-3	M-XYLENE	20	4	16	0	0	20
108-67-8	1,3,5-Trimethylbenzene	267	51	216	0	0	267
108-88-3	Toluene	353	95	258	0	0	353
108-90-7	Chlorobenzene	376	3	373	0	0	376
108-95-2	Phenol	250	6	244	0	0	250
11096-82-5	Aroclor 1260	193	8	185	56	0	137
11097-69-1	Aroclor 1254	194	3	191	54	0	140
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	250	27	223	9	0	241
120-12-7	Anthracene	276	6	270	0	0	276
120-82-1	1,2,4-Trichlorobenzene	517	1	516	12	0	505
123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	1	1	0	0	0	1
12672-29-6	Aroclor 1248	192	1	191	45	0	147

Table 13 — [Alternative 6, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
12674-11-2	Aroclor 1016	194	2	192	11	0	183
127-18-4	Tetrachloroethene	348	2	346	0	0	348
12789-03-6	Chlordane	173	4	169	5	0	168
129-00-0	Pyrene	276	22	254	0	0	276
132-64-9	Dibenzofuran	250	1	249	4	0	246
1330-20-7	XYLENES (TOTAL)	64	24	40	0	0	64
135-98-8	(1-METHYLPROPYL)BENZENE	266	80	186	0	0	266
1653-40-3	6-METHYL-1,1-HEPTANOL	3	3	0	0	0	3
179601-23-1	m,p-Xylenes	269	55	214	0	0	269
18540-29-9	Chromium (VI)	142	3	139	0	0	142
191-24-2	Benzo(g,h,i)perylene	276	7	269	0	0	276
193-39-5	Indeno(1,2,3-cd)pyrene	276	5	271	200	0	76
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1	1	0	0	0	1
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1	1	0	0	0	1
205-99-2	Benzo(b)fluoranthene	276	8	268	160	0	116
206-44-0	Fluoranthene	276	11	265	0	0	276
207-08-9	Benzo(k)fluoranthene	276	4	272	74	0	202
208-96-8	Acenaphthylene	276	1	275	0	0	276
218-01-9	Chrysene	276	17	259	17	0	259
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1	1	0	0	0	1
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1	1	0	0	0	1
26952-21-6	ISOOCTANOL	2	2	0	0	0	2
2719-52-0	(1-METHYLBUTYL)BENZENE	1	1	0	0	0	1
2883-05-8	2-CYCLOHEXYLDECANE	2	2	0	0	0	2
319-84-6	alpha-BHC	201	2	199	24	0	177
319-85-7	beta-BHC	200	7	193	11	0	189
33213-65-9	Endosulfan II	201	1	200	0	0	201
3875-51-2	1-METHYLETHYLCYCLOPENTANE	1	1	0	0	0	1
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1	1	0	0	0	1

Table 13 — [Alternative 6, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
496-10-6	OCTAHYDROINDENE	2	2	0	0	0	2
50-29-3	4,4'-DDT	200	11	189	6	0	194
50-32-8	Benzo(a)pyrene	276	7	269	254	0	22
5103-74-2	GAMMA-CHLORDANE	27	1	26	3	0	24
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1	1	0	0	0	1
53469-21-9	Aroclor 1242	192	1	191	45	0	147
53494-70-5	Endrin ketone	171	4	167	0	0	171
5364-83-0	(1-PROPENYL)CYCLOHEXANE	1	1	0	0	0	1
53-70-3	Dibenz(a,h)anthracene	276	2	274	255	0	21
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1	1	0	0	0	1
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1	1	0	0	0	1
56-55-3	BENZ[A]ANTHRACENE	276	8	268	158	0	118
58-89-9	gamma-BHC (Lindane)	200	1	199	7	0	193
591-78-6	2-Hexanone	72	1	71	0	0	72
60-57-1	Dieldrin	201	4	197	48	0	153
65-85-0	Benzoic acid	250	1	249	0	0	250
67-64-1	2-PROPANONE	76	32	44	0	0	76
67-66-3	Chloroform	352	3	349	23	0	329
71-43-2	Benzene	354	70	284	2	0	352
71-55-6	1,1,1-Trichloroethane	351	2	349	0	0	351
72-43-5	Methoxychlor	201	1	200	0	0	201
72-54-8	4,4'-DDD	199	11	188	6	0	193
72-55-9	4,4'-DDE	201	15	186	4	0	197
7421-93-4	Endrin aldehyde	174	6	168	0	0	174
7439-92-1	Lead	266	227	39	0	0	266
7439-97-6	Mercury	217	126	91	0	0	217
7439-98-7	Molybdenum	232	61	171	0	0	232
7440-02-0	Nickel	243	239	4	0	0	243
7440-22-4	Silver	261	20	241	0	0	261

Table 13 — [Alternative 6, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
7440-28-0	Thallium	241	30	211	181	0	60
7440-36-0	Antimony	242	46	196	0	0	242
7440-38-2	Arsenic	260	187	73	0	0	260
7440-39-3	Barium	261	259	2	0	0	261
7440-41-7	Beryllium	241	121	120	0	0	241
7440-43-9	Cadmium	263	68	195	0	0	263
7440-47-3	Chromium	263	260	3	0	0	263
7440-48-4	Cobalt	232	228	4	0	0	232
7440-50-8	Copper	242	238	4	0	0	242
7440-62-2	Vanadium	234	230	4	0	0	234
7440-66-6	Zinc	244	241	3	0	0	244
75-09-2	Methylene Chloride	354	14	340	0	0	354
75-15-0	Carbon Disulfide	72	0	72	0	0	72
75-25-2	Bromoform	350	1	349	0	0	350
75-34-3	1,1-Dichloroethane	326	1	325	0	0	326
75-35-4	1,1-Dichloroethene	373	1	372	0	0	373
75-69-4	Trichlorofluoromethane	327	5	322	0	0	327
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	16	1	15	0	0	16
76-44-8	Heptachlor	201	3	198	20	0	181
7782-49-2	Selenium	261	43	218	0	0	261
78-00-2	Organic Lead	101	19	82	18	0	83
78-93-3	2-Butanone	72	20	52	0	0	72
79-34-5	1,1,2,2-Tetrachloroethane	349	2	347	10	0	339
83-32-9	Acenaphthene	276	5	271	0	0	276
84-74-2	Di-n-butyl phthalate	250	24	226	0	0	250
85-01-8	Phenanthrene	276	42	234	0	0	276
85-68-7	BENZYL BUTYL PHTHALATE	250	1	249	1	0	249
86-30-6	N-Nitrosodiphenylamine	250	1	249	4	0	246
86-73-7	Fluorene	276	9	267	0	0	276

Table 13 — [Alternative 6, Non-Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
87-61-6	1,2,3-Trichlorobenzene	267	3	264	0	0	267
91-17-8	DECAHYDRONAPHTHALENE	1	1	0	0	0	1
91-20-3	Naphthalene	546	125	421	39	0	507
91-57-6	2-Methylnaphthalene	250	36	214	0	0	250
91-94-1	3,3'-DICHLOROBENZIDINE	250	1	249	128	0	122
92-87-5	Benzidine	224	4	220	220	0	4
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1	1	0	0	0	1
95-47-6	o-Xylene	289	55	234	0	0	289
95-50-1	1,2-Dichlorobenzene	569	5	564	0	0	569
95-63-6	1,2,4-Trimethylbenzene	267	67	200	0	0	267
96-12-8	1,2-Dibromo-3-Chloropropane	267	1	266	86	0	181
98-06-6	tert-Butylbenzene	266	1	265	0	0	266
98-82-8	1-METHYLETHYLBENZENE	267	89	178	0	0	267
99-87-6	p-Isopropyltoluene	266	58	208	0	0	266

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.

[b] Number of times chemical was detected in analysis

[c] Number of times sample was analyzed, chemical was not detected in analysis

[d] Number of records excluded. Reasons for exclusion are provided in Table 5

[e] Total number of records which are usable (total records minus excluded data)

ASCON Chemicals of Potential Concern Screening

List of Chemicals of Potential Concern (COPC)

Alternative 4&6 - Pit F Data

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
100-41-4	Ethylbenzene	5	4	1	0	0	5
100-42-5	Styrene	5	4	1	0	0	5
1024-57-3	Heptachlor epoxide	3	0	3	2	0	1
1031-07-8	Endosulfan sulfate	2	0	2	0	0	2
103-65-1	n-Propylbenzene	3	1	2	0	0	3
104-51-8	n-Butylbenzene	3	0	3	0	0	3
105-67-9	2,4-Dimethylphenol	4	0	4	2	0	2
106-43-4	4-Chlorotoluene	3	0	3	0	0	3
106-46-7	1,4-Dichlorobenzene	7	0	7	4	0	3
107-06-2	1,2-Dichloroethane	5	0	5	3	0	2
108-67-8	1,3,5-Trimethylbenzene	3	0	3	0	0	3
108-88-3	Toluene	5	1	4	0	0	5
108-90-7	Chlorobenzene	5	0	5	0	0	5
108-95-2	Phenol	4	0	4	0	0	4
11096-82-5	Aroclor 1260	4	0	4	3	0	1
11097-69-1	Aroclor 1254	4	0	4	3	0	1
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	4	1	3	3	0	1
120-12-7	Anthracene	4	0	4	0	0	4
120-82-1	1,2,4-Trichlorobenzene	7	0	7	4	0	3
12672-29-6	Aroclor 1248	4	0	4	3	0	1
12674-11-2	Aroclor 1016	4	0	4	1	0	3
127-18-4	Tetrachloroethene	5	0	5	0	0	5
12789-03-6	Chlordane	3	0	3	2	0	1
129-00-0	Pyrene	4	0	4	2	0	2
1330-20-7	XYLENES (TOTAL)	2	0	2	0	0	2
135-98-8	(1-METHYLPROPYL)BENZENE	3	3	0	0	0	3
179601-23-1	m,p-Xylenes	3	0	3	0	0	3
18540-29-9	Chromium (VI)	3	1	2	0	0	3
191-24-2	Benzo(g,h,i)perylene	4	0	4	1	0	3

Table 14 — [Alternative 4/6, Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
206-44-0	Fluoranthene	4	1	3	1	0	3
208-96-8	Acenaphthylene	4	0	4	1	0	3
33213-65-9	Endosulfan II	2	0	2	0	0	2
50-29-3	4,4'-DDT	3	0	3	0	0	3
53469-21-9	Aroclor 1242	4	0	4	3	0	1
53494-70-5	Endrin ketone	2	0	2	0	0	2
58-89-9	gamma-BHC (Lindane)	3	0	3	1	0	2
591-78-6	2-Hexanone	2	0	2	0	0	2
60-57-1	Dieldrin	3	0	3	2	0	1
65-85-0	Benzoic acid	4	0	4	0	0	4
67-64-1	2-PROPANONE	2	1	1	0	0	2
67-66-3	Chloroform	5	0	5	4	0	1
71-43-2	Benzene	5	1	4	1	0	4
71-55-6	1,1,1-Trichloroethane	5	0	5	0	0	5
72-43-5	Methoxychlor	3	0	3	0	0	3
72-54-8	4,4'-DDD	3	0	3	0	0	3
72-55-9	4,4'-DDE	3	0	3	0	0	3
7421-93-4	Endrin aldehyde	2	0	2	0	0	2
7439-92-1	Lead	5	2	3	0	0	5
7439-97-6	Mercury	4	1	3	0	0	4
7439-98-7	Molybdenum	3	0	3	0	0	3
7440-02-0	Nickel	4	3	1	0	0	4
7440-22-4	Silver	4	0	4	0	0	4
7440-28-0	Thallium	4	0	4	3	0	1
7440-36-0	Antimony	4	0	4	0	0	4
7440-38-2	Arsenic	5	1	4	0	0	5
7440-39-3	Barium	4	4	0	0	0	4
7440-41-7	Beryllium	4	0	4	0	0	4
7440-43-9	Cadmium	5	1	4	0	0	5
7440-47-3	Chromium	5	3	2	0	0	5
7440-48-4	Cobalt	3	0	3	0	0	3
7440-50-8	Copper	5	3	2	0	0	5
7440-62-2	Vanadium	3	3	0	0	0	3
7440-66-6	Zinc	5	4	1	0	0	5

Table 14 — [Alternative 4/6, Pit F Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
75-09-2	Methylene Chloride	5	0	5	0	0	5
75-15-0	Carbon Disulfide	2	1	1	0	0	2
75-25-2	Bromoform	5	0	5	0	0	5
75-34-3	1,1-Dichloroethane	4	0	4	0	0	4
75-35-4	1,1-Dichloroethene	6	0	6	0	0	6
75-69-4	Trichlorofluoromethane	4	0	4	0	0	4
76-44-8	Heptachlor	3	0	3	2	0	1
7782-49-2	Selenium	5	1	4	0	0	5
78-00-2	Organic Lead	2	2	0	0	0	2
78-93-3	2-Butanone	2	1	1	0	0	2
79-34-5	1,1,2,2-Tetrachloroethane	5	0	5	4	0	1
83-32-9	Acenaphthene	4	0	4	0	0	4
84-74-2	Di-n-butyl phthalate	4	0	4	0	0	4
85-01-8	Phenanthrene	4	3	1	0	0	4
86-73-7	Fluorene	4	0	4	1	0	3
87-61-6	1,2,3-Trichlorobenzene	3	0	3	0	0	3
91-20-3	Naphthalene	7	3	4	4	0	3
95-47-6	o-Xylene	3	0	3	0	0	3
95-50-1	1,2-Dichlorobenzene	7	0	7	1	0	6
95-63-6	1,2,4-Trimethylbenzene	3	2	1	0	0	3
98-06-6	tert-Butylbenzene	3	0	3	0	0	3
98-82-8	1-METHYLETHYLBENZENE	3	1	2	0	0	3
99-87-6	p-Isopropyltoluene	3	0	3	0	0	3

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.
[b] Number of times chemical was detected in analysis
[c] Number of times sample was analyzed, chemical was not detected in analysis
[d] Number of records excluded. Reasons for exclusion are provided in Table 5
[e] Total number of records which are usable (total records minus excluded data)

ASCON Chemicals of Potential Concern Screening

List of Chemicals Excluded from Further Analysis

Soil Gas Samples

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
100-41-4	Ethylbenzene	2	2	2	Duplicate
100-42-5	Styrene	2	0	2	Duplicate
10061-01-5	c-1,3-Dichloropropene	13	0	13	All Non-Detect,No Toxicity Value Available
10061-01-5	c-1,3-Dichloropropene	2	0	2	All Non-Detect,No Toxicity Value Available,Duplicate
10061-02-6	t-1,3-Dichloropropene	13	0	13	All Non-Detect,No Toxicity Value Available
10061-02-6	t-1,3-Dichloropropene	2	0	2	All Non-Detect,No Toxicity Value Available,Duplicate
106-46-7	1,4-Dichlorobenzene	2	0	2	Duplicate
106-93-4	1,2-Dibromoethane	13	0	13	All Non-Detect
106-93-4	1,2-Dibromoethane	2	0	2	All Non-Detect,Duplicate
106-99-0	1,3-Butadiene	2	1	2	Duplicate
107-03-9	n-Propyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
107-03-9	n-Propyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
107-06-2	1,2-Dichloroethane	13	0	13	All Non-Detect
107-06-2	1,2-Dichloroethane	2	0	2	All Non-Detect,Duplicate
107-13-1	Acrylonitrile	13	0	13	All Non-Detect
107-13-1	Acrylonitrile	2	0	2	All Non-Detect,Duplicate
108-05-4	Vinyl Acetate	2	1	2	Duplicate
108-10-1	4-Methyl-2-Pentanone	2	0	2	Duplicate
108-67-8	1,3,5-Trimethylbenzene	2	1	2	Duplicate
108-88-3	Toluene	2	2	2	Duplicate
108-90-7	Chlorobenzene	2	0	2	Duplicate
109-79-5	n-Butyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
109-79-5	n-Butyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
110-01-0	Tetrahydrothiophene	5	0	5	All Non-Detect,No Toxicity Value Available

Table 15 — [Soil Gas Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
110-01-0	Tetrahydrothiophene	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
110-02-1	Thiophene	5	0	5	All Non-Detect,No Toxicity Value Available
110-02-1	Thiophene	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
110-54-3	n-Hexane	2	1	2	Duplicate
110-81-6	Diethyl Disulfide	5	0	5	All Non-Detect,No Toxicity Value Available
110-81-6	Diethyl Disulfide	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
111-84-2	N-NONANE	2	2	2	Duplicate
123-91-1	1,4-Dioxane	13	0	13	All Non-Detect
123-91-1	1,4-Dioxane	2	0	2	All Non-Detect,Duplicate
124-48-1	CHLORODIBROMOMETHANE	13	0	13	All Non-Detect
124-48-1	CHLORODIBROMOMETHANE	2	0	2	All Non-Detect,Duplicate
127-18-4	Tetrachloroethene	2	0	2	Duplicate
156-59-2	c-1,2-Dichloroethene	2	0	2	Duplicate
156-60-5	t-1,2-Dichloroethene	13	0	13	All Non-Detect
156-60-5	t-1,2-Dichloroethene	2	0	2	All Non-Detect,Duplicate
1634-04-4	Methyl-t-Butyl Ether (MTBE)	13	0	13	All Non-Detect
1634-04-4	Methyl-t-Butyl Ether (MTBE)	2	0	2	All Non-Detect,Duplicate
179601-23-1	m,p-Xylenes	2	2	2	Duplicate
352-93-2	Diethyl Sulfide	5	0	5	All Non-Detect,No Toxicity Value Available
352-93-2	Diethyl Sulfide	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
463-58-1	Carbonyl Sulfide	5	4	5	No Toxicity Value Available
463-58-1	Carbonyl Sulfide	1	1	1	No Toxicity Value Available,Duplicate
513-44-0	Isobutyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
513-44-0	Isobutyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
541-73-1	1,3-Dichlorobenzene	13	0	13	All Non-Detect,No Toxicity Value Available
541-73-1	1,3-Dichlorobenzene	2	0	2	All Non-Detect,No Toxicity Value Available,Duplicate

Table 15 — [Soil Gas Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
56-23-5	Carbon Tetrachloride	13	0	13	All Non-Detect
56-23-5	Carbon Tetrachloride	2	0	2	All Non-Detect,Duplicate
591-78-6	2-Hexanone	2	1	2	Duplicate
5989-27-5	d-Limonene	13	7	13	No Toxicity Value Available
5989-27-5	d-Limonene	2	0	2	No Toxicity Value Available,Duplicate
616-44-4	3-Methylthiophene	5	0	5	All Non-Detect,No Toxicity Value Available
616-44-4	3-Methylthiophene	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
622-96-8	4-Ethyltoluene	2	1	2	Duplicate
624-89-5	Ethyl Methyl Sulfide	5	0	5	All Non-Detect,No Toxicity Value Available
624-89-5	Ethyl Methyl Sulfide	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
624-92-0	Dimethyl Disulfide	5	0	5	All Non-Detect,No Toxicity Value Available
624-92-0	Dimethyl Disulfide	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
638-02-8	2,5-Dimethylthiophene	5	0	5	All Non-Detect,No Toxicity Value Available
638-02-8	2,5-Dimethylthiophene	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
64-17-5	Ethanol	1	1	1	No Toxicity Value Available
67-64-1	2-PROPANONE	2	2	2	Duplicate
67-66-3	Chloroform	2	0	2	Duplicate
71-43-2	Benzene	2	1	2	Duplicate
74-83-9	Bromomethane	13	0	13	All Non-Detect
74-83-9	Bromomethane	2	0	2	All Non-Detect,Duplicate
74-87-3	Chloromethane	13	0	13	All Non-Detect
74-87-3	Chloromethane	2	0	2	All Non-Detect,Duplicate
74-93-1	Methyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
74-93-1	Methyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
75-00-3	Chloroethane	13	0	13	All Non-Detect
75-00-3	Chloroethane	2	0	2	All Non-Detect,Duplicate
75-01-4	Vinyl Chloride	13	0	13	All Non-Detect

Table 15 — [Soil Gas Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
75-01-4	Vinyl Chloride	2	0	2	All Non-Detect,Duplicate
75-08-1	Ethyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
75-08-1	Ethyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
75-09-2	Methylene Chloride	2	0	2	Duplicate
75-15-0	Carbon Disulfide	3	2	3	Duplicate
75-18-3	Dimethyl Sulfide	5	0	5	All Non-Detect,No Toxicity Value Available
75-18-3	Dimethyl Sulfide	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
75-25-2	Bromoform	13	0	13	All Non-Detect
75-25-2	Bromoform	2	0	2	All Non-Detect,Duplicate
75-27-4	Bromodichloromethane	13	0	13	All Non-Detect
75-27-4	Bromodichloromethane	2	0	2	All Non-Detect,Duplicate
75-33-2	Isopropyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
75-33-2	Isopropyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
75-34-3	1,1-Dichloroethane	2	0	2	Duplicate
75-35-4	1,1-Dichloroethene	2	0	2	Duplicate
75-66-1	tert-Butyl Mercaptan	5	0	5	All Non-Detect,No Toxicity Value Available
75-66-1	tert-Butyl Mercaptan	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
75-69-4	Trichlorofluoromethane	2	0	2	Duplicate
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2	0	2	Duplicate
7783-06-4	Hydrogen Sulfide	1	1	1	Duplicate
78-87-5	1,2-Dichloropropane	13	0	13	All Non-Detect
78-87-5	1,2-Dichloropropane	2	0	2	All Non-Detect,Duplicate
78-93-3	2-Butanone	2	2	2	Duplicate
79-00-5	1,1,2-Trichloroethane	4	0	4	Duplicate
79-01-6	Trichloroethene	2	0	2	Duplicate
79-34-5	1,1,2,2-Tetrachloroethane	13	0	13	All Non-Detect
79-34-5	1,1,2,2-Tetrachloroethane	2	0	2	All Non-Detect,Duplicate
80-56-8	alpha-Pinene	13	10	13	No Toxicity Value Available

Table 15 — [Soil Gas Samples] List of Chemicals Excluded from Further Analysis

PCR CAS No.[a]	Chemical Name[a]	No. of Samples	No. of Detects	No. of Samples Excluded	Reason for Exclusion?[b]
80-56-8	alpha-Pinene	2	1	2	No Toxicity Value Available,Duplicate
872-55-9	2-Ethylthiophene	5	0	5	All Non-Detect,No Toxicity Value Available
872-55-9	2-Ethylthiophene	1	0	1	All Non-Detect,No Toxicity Value Available,Duplicate
91-20-3	Naphthalene	2	0	2	Duplicate
95-47-6	o-Xylene	2	2	2	Duplicate
95-50-1	1,2-Dichlorobenzene	13	0	13	All Non-Detect
95-50-1	1,2-Dichlorobenzene	2	0	2	All Non-Detect,Duplicate
95-63-6	1,2,4-Trimethylbenzene	2	2	2	Duplicate
98-82-8	1-METHYLETHYLBENZENE	2	1	2	Duplicate
Mixture	C11H24 Branched Alkane	66	66	66	No CAS Number Available or Mixture,No Toxicity Value Available

[a] Certain chemicals may be listed multiple times due to multiple reasons for exclusion (All Samples ND, No Toxicity Value or Surrogate Available, etc.)

[b] Reasons for Exclusion Definitions:

All Samples ND = All samples on-site not detected

DL > Screen + ND = Individual Sample is not detected, but the detection limit is greater than the screening level.

No Tox Value or Surrogate = No toxicity value available for chemical or appropriate surrogate could be identified.

Duplicate = Field or laboratory duplicate

ASCON Chemicals of Potential Concern Screening

List of Chemicals of Potential Concern (COPC)

Soil Gas Data

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
100-41-4	Ethylbenzene	13	11	2	0	0	13
100-42-5	Styrene	13	1	12	0	0	13
106-46-7	1,4-Dichlorobenzene	13	1	12	0	0	13
106-97-8	N-BUTANE	2	2	0	0	0	2
106-99-0	1,3-Butadiene	13	4	9	0	0	13
107-83-5	2-Methylpentane	2	2	0	0	0	2
108-05-4	Vinyl Acetate	13	6	7	0	0	13
108-10-1	4-Methyl-2-Pentanone	13	2	11	0	0	13
108-67-8	1,3,5-Trimethylbenzene	13	9	4	0	0	13
108-88-3	Toluene	13	13	0	0	0	13
108-90-7	Chlorobenzene	13	1	12	0	0	13
109-66-0	n-Pentane	3	3	0	0	0	3
110-54-3	n-Hexane	13	11	2	0	0	13
111-71-7	Heptanal	1	1	0	0	0	1
111-84-2	N-NONANE	13	10	3	0	0	13
124-13-0	Octanal	1	1	0	0	0	1
127-18-4	Tetrachloroethene	13	2	11	0	0	13
156-59-2	c-1,2-Dichloroethene	13	1	12	0	0	13
179601-23-1	m,p-Xylenes	13	13	0	0	0	13
540-84-1	2,2,4-TRIMETHYLPENTANE	5	5	0	0	0	5
565-59-3	2,3-Dimethylpentane	1	1	0	0	0	1
591-78-6	2-Hexanone	13	9	4	0	0	13
622-96-8	4-Ethyltoluene	13	7	6	0	0	13
66-25-1	Hexanal	1	1	0	0	0	1
67-64-1	2-PROPANONE	13	13	0	0	0	13
67-66-3	Chloroform	13	2	11	0	0	13
71-43-2	Benzene	13	9	4	0	0	13
75-07-0	Acetaldehyde	1	1	0	0	0	1

Table 16 — [Soil Gas Data] List of Chemicals of Potential Concern (COPC)

PCR CAS No.	Chemical Name	No. of Samples[a]	No. of Detects[b]	No. of Non-Detects[c]	No. of Records Excluded[d]	No. of Detects Excluded[d]	Usable Data[e]
75-09-2	Methylene Chloride	13	2	11	0	0	13
75-15-0	Carbon Disulfide	18	17	1	0	0	18
75-34-3	1,1-Dichloroethane	13	2	11	0	0	13
75-35-4	1,1-Dichloroethene	13	1	12	0	0	13
75-69-4	Trichlorofluoromethane	13	3	10	0	0	13
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	13	3	10	0	0	13
7783-06-4	Hydrogen Sulfide	5	3	2	0	0	5
78-93-3	2-Butanone	13	13	0	0	0	13
79-00-5	1,1,2-Trichloroethane	26	2	24	0	0	26
79-01-6	Trichloroethene	13	1	12	0	0	13
79-29-8	2,3-Dimethylbutane	2	2	0	0	0	2
91-20-3	Naphthalene	13	2	11	0	0	13
95-47-6	o-Xylene	13	12	1	0	0	13
95-63-6	1,2,4-Trimethylbenzene	13	13	0	0	0	13
96-14-0	3-Methylpentane	2	2	0	0	0	2
96-37-7	METHYLCYCLOPENTANE	2	2	0	0	0	2
98-82-8	1-METHYLETHYLBENZENE	13	3	10	0	0	13

[a] Includes all samples which are remaining on-site (have not been previously removed) and have been detected at least once on-site.

[b] Number of times chemical was detected in analysis

[c] Number of times sample was analyzed, chemical was not detected in analysis

[d] Number of records excluded.

[e] Total number of records which are usable (total records minus excluded data)

ASCON Chemicals of Potential Concern Screening

List of Chemicals of Potential Concern (COPC)

Groundwater VOC Data[a]

Summary Table					Groundwater Elevation (ft above NAVD88)*
PCR CAS No.	**Chemical Name**	**Max Value (ug/L)**	**No. of Detects**	**GW Well Number**	
95-63-6	1,2,4-Trimethylbenzene	0.71	1	B4A	0.32
106-46-7	1,4-Dichlorobenzene	0.62	1	AW8	-3.25
71-43-2	Benzene	21	5	B7	0.6
100-41-4	Ethylbenzene	380	4	B7	0.6
98-82-8	Isopropylbenzene	580	6	B7	0.6
179601-23-1	m,p-Xylenes	1.2	1	B4A	0.32
91-20-3	Naphthalene	69	4	B7	0.6
103-65-1	n-Propylbenzene	19	6	B7	0.6
135-98-8	sec-Butylbenzene	30	4	B7	0.6
108-88-3	Toluene	0.45	1	B4A	0.32

[a] Data only includes detected VOC samples. * GW depth measured as of March 19, 2012.

Source: Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site. Geosyntec. May 1, 2012.

Notes:

1) Within the latest three quarterly groundwater monitoring events (ie, between 2010-2012), the only groundwater samples to yield VOC detections were from Wells B7, AW-8 and B4A. During this time period, the highest groundwater VOC test results obtained from Well B7 and Well AW-8 were selected as representative of these locations. Well B7 is located directly west of Pit-F, Well AW-8 is located in the extreme northwest corner of the site, and Well B4A is located in the southwest quadrant approximately 115 ft west of former Lagoon #2.

2) Groundwater VOC concentrations identified in Well B4A indicated a general and consistent downward trend since fourth quarter of 2006. Therefore, the latest available groundwater test results (ie, 3rd quarter, 2011) were selected as representative of this location.

3) For modeling VOC emissions from groundwater, test results from Well B7 were selected over those of Well B4A for the following reasons. Because Well B7 is located closer to neighboring residences than Well B4A, the least dilution of VOCs in ambient air is expected from Well B7. In addition, all groundwater VOCs detected in Well B4A were also detected in Well B7, yet at higher concentrations in Well B7. Thus, as a conservative approach, VOC results fromWell B7 were used to model VOC emissions from groundwater. Well AW-8 contained a single VOC detection (0.62 ug/L of 1,4-dichlorobenzene) that was not identified in groundwater from either Well B7 or B4A. Therefore, emissions of this VOC were modeled from Well AW-8.

ASCON Emissions Inventory

Upper Confidence Limit (UCL) Calculation

Alternative 4

PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	UCL (mg/kg)[a]	UCL Calculation Method[b]
100-41-4	Ethylbenzene	167	31	0.849	95% KM (Chebyshev) UCL
100-42-5	Styrene	154	3	0.120	<5 Detects, Use Max.
1024-57-3	Heptachlor epoxide	108	2	0.032	<5 Detects, Use Max.
1031-07-8	Endosulfan sulfate	108	2	0.004	<5 Detects, Use Max.
103-65-1	n-Propylbenzene	115	16	0.564	95% KM (Chebyshev) UCL
104-51-8	n-Butylbenzene	115	5	0.0659	95% KM (Chebyshev) UCL
106-42-3	P-XYLENE	11	1	0.056	<5 Detects, Use Max.
106-93-4	1,2-Dibromoethane	115	1	0.006	<5 Detects, Use Max.
108-38-3	M-XYLENE	11	2	0.650	<5 Detects, Use Max.
108-67-8	1,3,5-Trimethylbenzene	115	10	0.402	95% KM (Chebyshev) UCL
108-88-3	Toluene	167	39	0.273	95% KM (Chebyshev) UCL
108-90-7	Chlorobenzene	179	1	0.002	<5 Detects, Use Max.
108-95-2	Phenol	116	1	0.160	<5 Detects, Use Max.
11096-82-5	Aroclor 1260	102	6	0.0379	95% KM (Chebyshev) UCL
11097-69-1	Aroclor 1254	102	1	0.015	<5 Detects, Use Max.
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	116	14	1.585	95% KM (Chebyshev) UCL
120-12-7	Anthracene	131	2	1.700	<5 Detects, Use Max.
120-82-1	1,2,4-Trichlorobenzene	232	1	0.001	<5 Detects, Use Max.
127-18-4	Tetrachloroethene	165	2	0.008	<5 Detects, Use Max.
12789-03-6	Chlordane	94	3	1.400	<5 Detects, Use Max.
129-00-0	Pyrene	130	17	0.471	95% KM (Chebyshev) UCL
1330-20-7	XYLENES (TOTAL)	41	15	5.459	95% KM (Chebyshev) UCL
135-98-8	(1-METHYLPROPYL)BENZENE	115	13	0.453	95% KM (Chebyshev) UCL
179601-23-1	m,p-Xylenes	115	10	0.801	95% KM (Chebyshev) UCL
18540-29-9	Chromium (VI)	75	3	0.730	<5 Detects, Use Max.
191-24-2	Benzo(g,h,i)perylene	130	7	0.0336	95% KM (Chebyshev) UCL
193-39-5	Indeno(1,2,3-cd)pyrene	130	5	0.0217	95% KM (Chebyshev) UCL
205-99-2	Benzo(b)fluoranthene	130	8	0.0355	95% KM (Chebyshev) UCL
206-44-0	Fluoranthene	130	9	0.419	95% KM (Chebyshev) UCL
207-08-9	Benzo(k)fluoranthene	130	4	0.140	<5 Detects, Use Max.
208-96-8	Acenaphthylene	130	1	0.002	<5 Detects, Use Max.
218-01-9	Chrysene	130	12	0.275	95% KM (Chebyshev) UCL
319-84-6	alpha-BHC	108	1	0.003	<5 Detects, Use Max.
319-85-7	beta-BHC	108	1	0.075	<5 Detects, Use Max.
33213-65-9	Endosulfan II	108	1	0.011	<5 Detects, Use Max.
50-29-3	4,4'-DDT	108	11	0.00511	95% KM (Chebyshev) UCL
50-32-8	Benzo(a)pyrene	130	7	0.56	95% KM (Chebyshev) UCL
5103-74-2	GAMMA-CHLORDANE	14	1	0.017	<5 Detects, Use Max.
53494-70-5	Endrin ketone	89	3	0.002	<5 Detects, Use Max.
53-70-3	Dibenz(a,h)anthracene	130	1	1.700	<5 Detects, Use Max.
56-55-3	BENZ[A]ANTHRACENE	130	6	0.022	95% KM (Chebyshev) UCL
58-89-9	gamma-BHC (Lindane)	108	1	0.065	<5 Detects, Use Max.
591-78-6	2-Hexanone	51	1	0.003	<5 Detects, Use Max.
60-57-1	Dieldrin	108	3	0.031	<5 Detects, Use Max.
67-64-1	2-PROPANONE	54	21	0.0764	95% KM (Chebyshev) UCL

Table 18 — [Alternative 4] Upper Confidence Limit Calculation

PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	UCL (mg/kg)[a]	UCL Calculation Method[b]
68334-30-5	DRO (C13-C22)	13	5	81.9	95% KM (Chebyshev) UCL
71-43-2	Benzene	167	17	0.0681	95% KM (Chebyshev) UCL
72-43-5	Methoxychlor	108	1	0.005	<5 Detects, Use Max.
72-54-8	4,4'-DDD	107	10	0.00302	95% KM (Chebyshev) UCL
72-55-9	4,4'-DDE	109	14	0.00778	95% KM (Chebyshev) UCL
7421-93-4	Endrin aldehyde	94	5	0.00212	95% KM (Chebyshev) UCL
7439-92-1	Lead	145	122	168.9	95% KM (Chebyshev) UCL
7439-97-6	Mercury	111	68	0.21	95% KM (Chebyshev) UCL
7439-98-7	Molybdenum	127	31	1.391	95% KM (Chebyshev) UCL
7440-02-0	Nickel	132	131	37.06	95% KM (Chebyshev) UCL
7440-22-4	Silver	142	10	0.457	95% KM (Chebyshev) UCL
7440-28-0	Thallium	131	13	24.34	95% KM (Chebyshev) UCL
7440-36-0	Antimony	131	32	2.314	95% KM (Chebyshev) UCL
7440-38-2	Arsenic	141	103	9.862	95% KM (Chebyshev) UCL
7440-39-3	Barium	142	141	366.6	95% KM (Chebyshev) UCL
7440-41-7	Beryllium	131	78	0.574	95% KM (Chebyshev) UCL
7440-43-9	Cadmium	143	44	1.288	95% KM (Chebyshev) UCL
7440-47-3	Chromium	143	142	53.38	95% KM (Chebyshev) UCL
7440-48-4	Cobalt	127	125	10.18	95% KM (Chebyshev) UCL
7440-50-8	Copper	132	131	490.5	95% KM (Chebyshev) UCL
7440-62-2	Vanadium	130	127	46.76	95% KM (Chebyshev) UCL
7440-66-6	Zinc	133	132	201.2	95% KM (Chebyshev) UCL
75-09-2	Methylene Chloride	167	7	0.00651	95% KM (Chebyshev) UCL
75-35-4	1,1-Dichloroethene	180	1	0.004	<5 Detects, Use Max.
75-69-4	Trichlorofluoromethane	152	3	0.057	<5 Detects, Use Max.
76-44-8	Heptachlor	108	3	0.029	<5 Detects, Use Max.
7782-49-2	Selenium	142	19	4.656	95% KM (Chebyshev) UCL
78-00-2	Organic Lead	52	16	0.411	95% KM (Chebyshev) UCL
78-93-3	2-Butanone	51	12	0.015	95% KM (Chebyshev) UCL
79-34-5	1,1,2,2-Tetrachloroethane	165	1	0.003	<5 Detects, Use Max.
83-32-9	Acenaphthene	129	2	2.300	<5 Detects, Use Max.
84-74-2	Di-n-butyl phthalate	117	14	0.425	95% KM (Chebyshev) UCL
85-01-8	Phenanthrene	130	17	103.1	95% KM (Chebyshev) UCL
85-68-7	BENZYL BUTYL PHTHALATE	117	1	0.630	<5 Detects, Use Max.
86-73-7	Fluorene	130	3	2.100	<5 Detects, Use Max.
87-61-6	1,2,3-Trichlorobenzene	115	2	0.001	<5 Detects, Use Max.
91-20-3	Naphthalene	245	31	1.237	95% KM (Chebyshev) UCL
91-57-6	2-Methylnaphthalene	117	16	4.97	95% KM (Chebyshev) UCL
91-94-1	3,3'-DICHLOROBENZIDINE	117	1	0.082	<5 Detects, Use Max.
92-87-5	Benzidine	101	3	17.000	<5 Detects, Use Max.
95-47-6	o-Xylene	126	13	0.151	95% KM (Chebyshev) UCL
95-50-1	1,2-Dichlorobenzene	258	3	0.350	<5 Detects, Use Max.
95-63-6	1,2,4-Trimethylbenzene	115	18	1.167	95% KM (Chebyshev) UCL
96-12-8	1,2-Dibromo-3-Chloropropane	115	1	0.006	<5 Detects, Use Max.
98-82-8	1-METHYLETHYLBENZENE	115	16	0.386	95% KM (Chebyshev) UCL
99-87-6	p-Isopropyltoluene	115	12	0.345	95% KM (Chebyshev) UCL

[a] Chemicals with less than 5 detects, maximum value was used.

[b] 95% KM (Chebyshev) UCL = UCL based upon Kaplan-Meier estimates using the Chebyshev inequality

ASCON Emissions Inventory

Upper Confidence Limit (UCL) Calculation

Alternative 6

PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	UCL (mg/kg)[a]	UCL Calculation Method[b]
2883-05-8	2-CYCLOHEXYLDECANE	2	2	8.1	<5 Detects, Use Max.
7446-09-5	SULFUR DIOXIDE	1	1	5.8	<5 Detects, Use Max.
100-41-4	Ethylbenzene	354	112	13.03	95% KM (Chebyshev) UCL
100-42-5	Styrene	324	15	8.2	95% KM (Chebyshev) UCL
10042-59-8	2-PROPYL-1-HEPTANOL	1	1	19.0	<5 Detects, Use Max.
1024-57-3	Heptachlor epoxide	201	3	0.03	<5 Detects, Use Max.
1031-07-8	Endosulfan sulfate	201	2	0.004	<5 Detects, Use Max.
103-65-1	n-Propylbenzene	269	86	1.6	95% KM (Chebyshev) UCL
104-51-8	n-Butylbenzene	266	26	0.3	95% KM (Chebyshev) UCL
105-67-9	2,4-Dimethylphenol	251	1	39.0	<5 Detects, Use Max.
106-42-3	P-XYLENE	20	2	0.4	<5 Detects, Use Max.
106-43-4	4-Chlorotoluene	268	2	1.2	<5 Detects, Use Max.
106-46-7	1,4-Dichlorobenzene	571	1	0.2	<5 Detects, Use Max.
106-93-4	1,2-Dibromoethane	268	1	0.006	<5 Detects, Use Max.
107-06-2	1,2-Dichloroethane	352	2	10.0	<5 Detects, Use Max.
108-38-3	M-XYLENE	20	4	27.0	<5 Detects, Use Max.
108-67-8	1,3,5-Trimethylbenzene	267	51	0.9	95% KM (Chebyshev) UCL
108-88-3	Toluene	353	95	1.0	95% KM (Chebyshev) UCL
108-90-7	Chlorobenzene	377	3	6.6	<5 Detects, Use Max.
108-95-2	Phenol	250	6	0.1	95% KM (Chebyshev) UCL
11096-82-5	Aroclor 1260	193	8	0.09	95% KM (Chebyshev) UCL
11097-69-1	Aroclor 1254	194	3	6.1	<5 Detects, Use Max.
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	250	27	10.7	95% KM (Chebyshev) UCL
120-12-7	Anthracene	276	6	0.8	95% KM (Chebyshev) UCL
120-82-1	1,2,4-Trichlorobenzene	519	1	0.001	<5 Detects, Use Max.
123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	1	1	700.0	<5 Detects, Use Max.
12672-29-6	Aroclor 1248	192	1	5.2	<5 Detects, Use Max.
12674-11-2	Aroclor 1016	194	2	1.6	<5 Detects, Use Max.
127-18-4	Tetrachloroethene	350	2	0.008	<5 Detects, Use Max.
12789-03-6	Chlordane	173	4	1.4	<5 Detects, Use Max.
129-00-0	Pyrene	276	22	0.3	95% KM (Chebyshev) UCL
132-64-9	Dibenzofuran	251	1	0.5	<5 Detects, Use Max.
1330-20-7	XYLENES (TOTAL)	64	24	5.0	95% KM (Chebyshev) UCL
135-98-8	(1-METHYLPROPYL)BENZENE	266	80	7.1	95% KM (Chebyshev) UCL
1653-40-3	6-METHYL-1,1-HEPTANOL	3	3	30.0	<5 Detects, Use Max.
179601-23-1	m,p-Xylenes	269	55	2.2	95% KM (Chebyshev) UCL
18540-29-9	Chromium (VI)	143	3	0.7	<5 Detects, Use Max.
191-24-2	Benzo(g,h,i)perylene	276	7	0.02	95% KM (Chebyshev) UCL
193-39-5	Indeno(1,2,3-cd)pyrene	276	5	0.01	95% KM (Chebyshev) UCL
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1	1	3.3	<5 Detects, Use Max.
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1	1	8.3	<5 Detects, Use Max.
205-99-2	Benzo(b)fluoranthene	276	8	0.02	95% KM (Chebyshev) UCL
206-44-0	Fluoranthene	276	11	0.2	95% KM (Chebyshev) UCL

Table 19 — [Alternative 6] Upper Limit Calculation

PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	UCL (mg/kg)[a]	UCL Calculation Method[b]
207-08-9	Benzo(k)fluoranthene	277	4	0.1	<5 Detects, Use Max.
208-96-8	Acenaphthylene	277	1	0.002	<5 Detects, Use Max.
218-01-9	Chrysene	276	17	0.2	95% KM (Chebyshev) UCL
22531-20-0	6-ETHYL-1,2,3,4-	1	1	4.1	<5 Detects, Use Max.
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1	1	3.4	<5 Detects, Use Max.
26952-21-6	ISOOCTANOL	2	2	11.0	<5 Detects, Use Max.
2719-52-0	(1-METHYLBUTYL)BENZENE	1	1	6.1	<5 Detects, Use Max.
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	2	2	16.0	<5 Detects, Use Max.
319-84-6	alpha-BHC	201	2	0.02	<5 Detects, Use Max.
319-85-7	beta-BHC	200	7	0.02	95% KM (Chebyshev) UCL
319-86-8	delta-BHC	200	2	0.04	<5 Detects, Use Max.
33213-65-9	Endosulfan II	201	1	0.01	<5 Detects, Use Max.
3875-51-2	1-METHYLETHYLCYCLOPENTANE	1	1	4.2	<5 Detects, Use Max.
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1	1	2.7	<5 Detects, Use Max.
496-10-6	OCTAHYDROINDENE	2	2	31.0	<5 Detects, Use Max.
50-29-3	4,4'-DDT	200	11	0.004	95% KM (Chebyshev) UCL
50-32-8	Benzo(a)pyrene	276	7	0.3	95% KM (Chebyshev) UCL
5103-74-2	GAMMA-CHLORDANE	27	1	0.02	<5 Detects, Use Max.
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1	1	7.5	<5 Detects, Use Max.
53469-21-9	Aroclor 1242	192	1	4.2	<5 Detects, Use Max.
53494-70-5	Endrin ketone	171	4	0.003	<5 Detects, Use Max.
5364-83-0	(1-PROPENYL)CYCLOHEXANE	1	1	40.0	<5 Detects, Use Max.
53-70-3	Dibenz(a,h)anthracene	277	2	1.7	<5 Detects, Use Max.
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1	1	1.8	<5 Detects, Use Max.
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1	1	7.7	<5 Detects, Use Max.
56-55-3	BENZ[A]ANTHRACENE	276	8	0.02	95% KM (Chebyshev) UCL
58-89-9	gamma-BHC (Lindane)	200	1	0.07	<5 Detects, Use Max.
591-78-6	2-Hexanone	72	1	0.003	<5 Detects, Use Max.
60-57-1	Dieldrin	201	4	0.03	<5 Detects, Use Max.
65-85-0	Benzoic acid	251	1	0.2	<5 Detects, Use Max.
67-64-1	2-PROPANONE	76	32	1.9	95% KM (Chebyshev) UCL
67-66-3	Chloroform	353	3	25.0	<5 Detects, Use Max.
71-43-2	Benzene	354	70	0.6	95% KM (Chebyshev) UCL
71-55-6	1,1,1-Trichloroethane	352	2	13.0	<5 Detects, Use Max.
72-43-5	Methoxychlor	201	1	0.005	<5 Detects, Use Max.
72-54-8	4,4'-DDD	199	11	0.003	95% KM (Chebyshev) UCL
72-55-9	4,4'-DDE	201	15	0.005	95% KM (Chebyshev) UCL
7421-93-4	Endrin aldehyde	174	6	0.002	95% KM (Chebyshev) UCL
7439-92-1	Lead	266	227	132.8	95% KM (Chebyshev) UCL
7439-97-6	Mercury	217	126	1.0	95% KM (Chebyshev) UCL
7439-98-7	Molybdenum	232	61	1.8	95% KM (Chebyshev) UCL
7440-02-0	Nickel	243	239	27.0	95% KM (Chebyshev) UCL
7440-22-4	Silver	261	20	0.4	95% KM (Chebyshev) UCL
7440-28-0	Thallium	241	30	13.9	95% KM (Chebyshev) UCL
7440-36-0	Antimony	242	46	1.7	95% KM (Chebyshev) UCL
7440-38-2	Arsenic	260	187	8.7	95% KM (Chebyshev) UCL

Table 19 — [Alternative 6] Upper Limit Calculation

PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	UCL (mg/kg)[a]	UCL Calculation Method[b]
7440-39-3	Barium	261	259	262.2	95% KM (Chebyshev) UCL
7440-41-7	Beryllium	241	121	0.5	95% KM (Chebyshev) UCL
7440-43-9	Cadmium	263	68	0.9	95% KM (Chebyshev) UCL
7440-47-3	Chromium	263	260	40.3	95% KM (Chebyshev) UCL
7440-48-4	Cobalt	232	228	8.8	95% KM (Chebyshev) UCL
7440-50-8	Copper	242	238	277.3	95% KM (Chebyshev) UCL
7440-62-2	Vanadium	234	230	42.05	95% KM (Chebyshev) UCL
7440-66-6	Zinc	244	241	162.1	95% KM (Chebyshev) UCL
75-09-2	Methylene Chloride	354	14	0.8	95% KM (Chebyshev) UCL
75-25-2	Bromoform	351	1	4.7	<5 Detects, Use Max.
75-34-3	1,1-Dichloroethane	327	1	0.7	<5 Detects, Use Max.
75-35-4	1,1-Dichloroethene	374	1	0.004	<5 Detects, Use Max.
75-69-4	Trichlorofluoromethane	327	5	0.3	95% KM (Chebyshev) UCL
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	16	1	8.6	<5 Detects, Use Max.
76-44-8	Heptachlor	201	3	0.03	<5 Detects, Use Max.
7782-49-2	Selenium	261	43	2.9	95% KM (Chebyshev) UCL
78-00-2	Organic Lead	101	19	0.3	95% KM (Chebyshev) UCL
78-93-3	2-Butanone	72	20	0.5	95% KM (Chebyshev) UCL
79-34-5	1,1,2,2-Tetrachloroethane	350	2	0.09	<5 Detects, Use Max.
83-32-9	Acenaphthene	276	5	0.2	95% KM (Chebyshev) UCL
84-74-2	Di-n-butyl phthalate	250	24	0.3	95% KM (Chebyshev) UCL
85-01-8	Phenanthrene	276	42	77.9	95% KM (Chebyshev) UCL
85-68-7	BENZYL BUTYL PHTHALATE	251	1	0.6	<5 Detects, Use Max.
86-30-6	N-Nitrosodiphenylamine	251	1	0.7	<5 Detects, Use Max.
86-73-7	Fluorene	276	9	1.3	95% KM (Chebyshev) UCL
87-61-6	1,2,3-Trichlorobenzene	268	3	0.001	<5 Detects, Use Max.
91-17-8	DECAHYDRONAPHTHALENE	1	1	15.0	<5 Detects, Use Max.
91-20-3	Naphthalene	546	125	9.8	95% KM (Chebyshev) UCL
91-57-6	2-Methylnaphthalene	250	36	4.2	95% KM (Chebyshev) UCL
91-94-1	3,3'-DICHLOROBENZIDINE	251	1	0.08	<5 Detects, Use Max.
92-87-5	Benzidine	225	4	99.0	<5 Detects, Use Max.
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1	1	2.0	<5 Detects, Use Max.
95-47-6	o-Xylene	289	55	1.06	95% KM (Chebyshev) UCL
95-50-1	1,2-Dichlorobenzene	569	5	0.2	95% KM (Chebyshev) UCL
95-63-6	1,2,4-Trimethylbenzene	267	67	2.7	95% KM (Chebyshev) UCL
96-12-8	1,2-Dibromo-3-Chloropropane	268	1	0.006	<5 Detects, Use Max.
98-06-6	tert-Butylbenzene	268	1	0.003	<5 Detects, Use Max.
98-82-8	1-METHYLETHYLBENZENE	267	89	7.9	95% KM (Chebyshev) UCL
99-87-6	p-Isopropyltoluene	266	58	0.7	95% KM (Chebyshev) UCL

[a] Chemicals with less than 5 detects, maximum value was used.

[b] 95% KM (Chebyshev) UCL = UCL based upon Kaplan-Meier estimates using the Chebyshev inequality

ASCON Emissions Inventory

[Pit F Samples] Maximum Concentrations

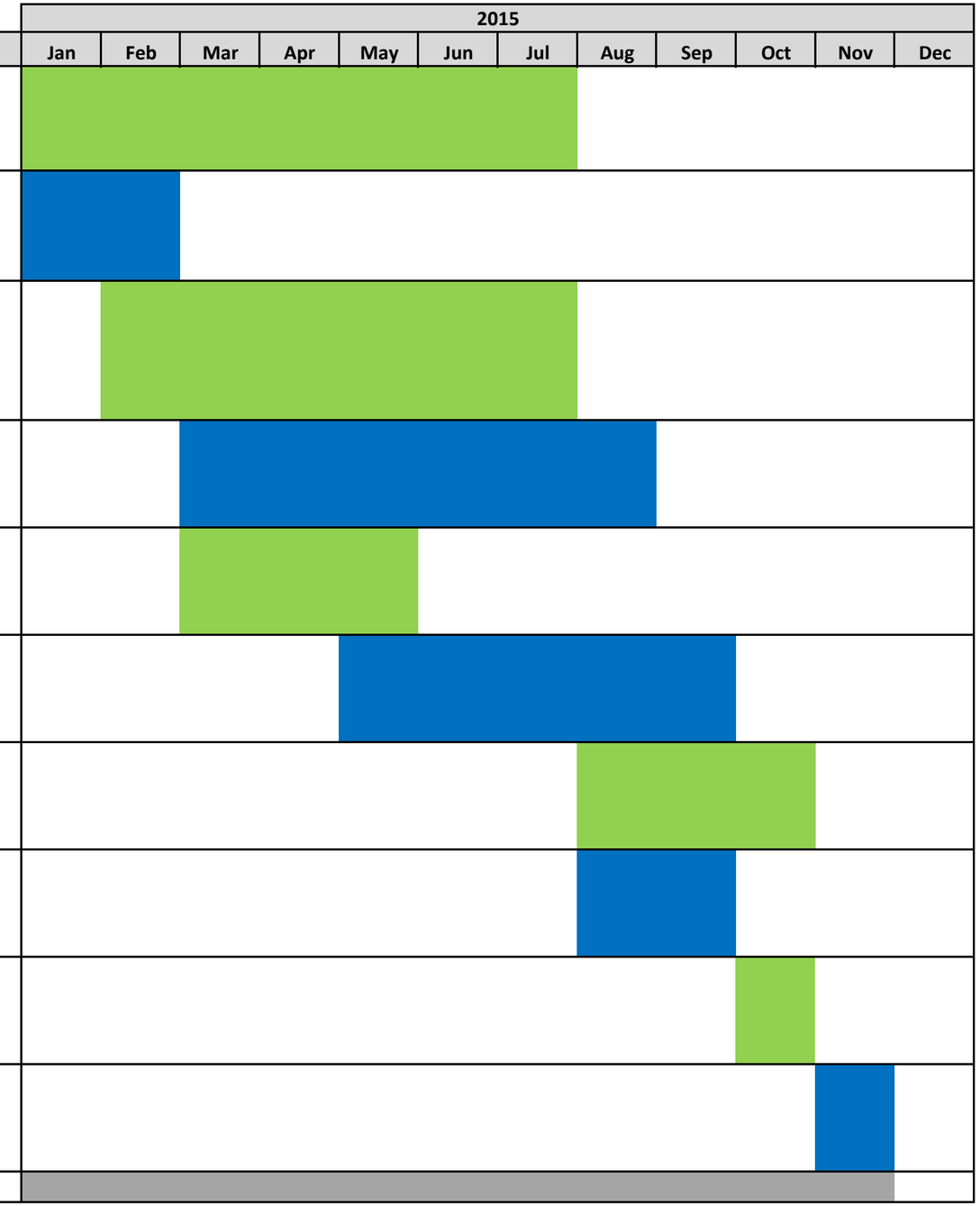
PCR CAS No.	Chemical Name	No. of Samples	No. of Detects	Max Concentration (mg/kg)	UCL Calculation Method[b]
100-41-4	Ethylbenzene	3	3	2.5	<5 Detects, Use Max.
100-42-5	Styrene	4	4	29.0	<5 Detects, Use Max.
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	1	1	200.0	<5 Detects, Use Max.
135-98-8	(1-METHYLPROPYL)BENZENE	2	2	28.0	<5 Detects, Use Max.
18540-29-9	Chromium (VI)	1	1	0.3	<5 Detects, Use Max.
206-44-0	Fluoranthene	1	1	1100.0	<5 Detects, Use Max.
67-64-1	2-PROPANONE	1	1	1.0	<5 Detects, Use Max.
7439-92-1	Lead	2	2	9.7	<5 Detects, Use Max.
7439-97-6	Mercury	1	1	0.1	<5 Detects, Use Max.
7440-02-0	Nickel	3	3	5.2	<5 Detects, Use Max.
7440-38-2	Arsenic	1	1	1.2	<5 Detects, Use Max.
7440-39-3	Barium	4	4	73.0	<5 Detects, Use Max.
7440-43-9	Cadmium	1	1	0.2	<5 Detects, Use Max.
7440-47-3	Chromium	3	3	3.2	<5 Detects, Use Max.
7440-50-8	Copper	3	3	12.0	<5 Detects, Use Max.
7440-62-2	Vanadium	3	3	7.0	<5 Detects, Use Max.
7440-66-6	Zinc	4	4	24.0	<5 Detects, Use Max.
75-15-0	Carbon Disulfide	1	1	1.3	<5 Detects, Use Max.
7782-49-2	Selenium	1	1	0.0	<5 Detects, Use Max.
78-00-2	Organic Lead	2	2	0.0	<5 Detects, Use Max.
78-93-3	2-Butanone	1	1	4.3	<5 Detects, Use Max.
85-01-8	Phenanthrene	3	3	55000.0	<5 Detects, Use Max.
91-20-3	Naphthalene	2	2	170.0	<5 Detects, Use Max.
95-63-6	1,2,4-Trimethylbenzene	1	1	2.5	<5 Detects, Use Max.

ASCON Health Risk Assessment

Remediation Schedule

Alternative 4

Phase No.	Phase Name	Tasks	Start Date	No. of Days	End Date
1	Mobilization	Maintain haul raods	1/5/2015	190	7/14/2015
2	Pit F	Clear and grub, traffic control, assemble sprung structure, slurry trench excavation, dispose material.	1/5/2015	36	2/10/2015
3	Cut/Fill to Top of Waste	Install slurry wall at Lagoons 4&5, cut/fill to top of waste, place waste in treatment cell or stockpile, excavate, stockpile & export 30K BCY	2/24/2015	144	7/18/2015
4	Treatment Cell	Process VOC impacted material	3/25/2015	136	8/8/2015
5	Concrete Debris	Consolidate, reduce, and place as selected depp fill	3/25/2015	60	5/24/2015
6	Fill to Final Grade	Construct cap	5/25/2015	102	9/4/2015
7	Surface Water Controls	Install detention basins, install V-ditch	8/26/2015	65	10/30/2015
8	City Parcel	Cut and backfill; utility poles	8/26/2015	6	9/1/2015
9	South Coast Oil Company	Cut and backfill to top of final grade	10/14/2015	14	10/28/2015
10	Site Restoration		11/3/2015	10	11/13/2015
		TOTAL Duration:	**1/5/2015**	**312**	**11/13/2015**



ASCON Health Risk Assessment

Remediation Schedule

Alternative 6

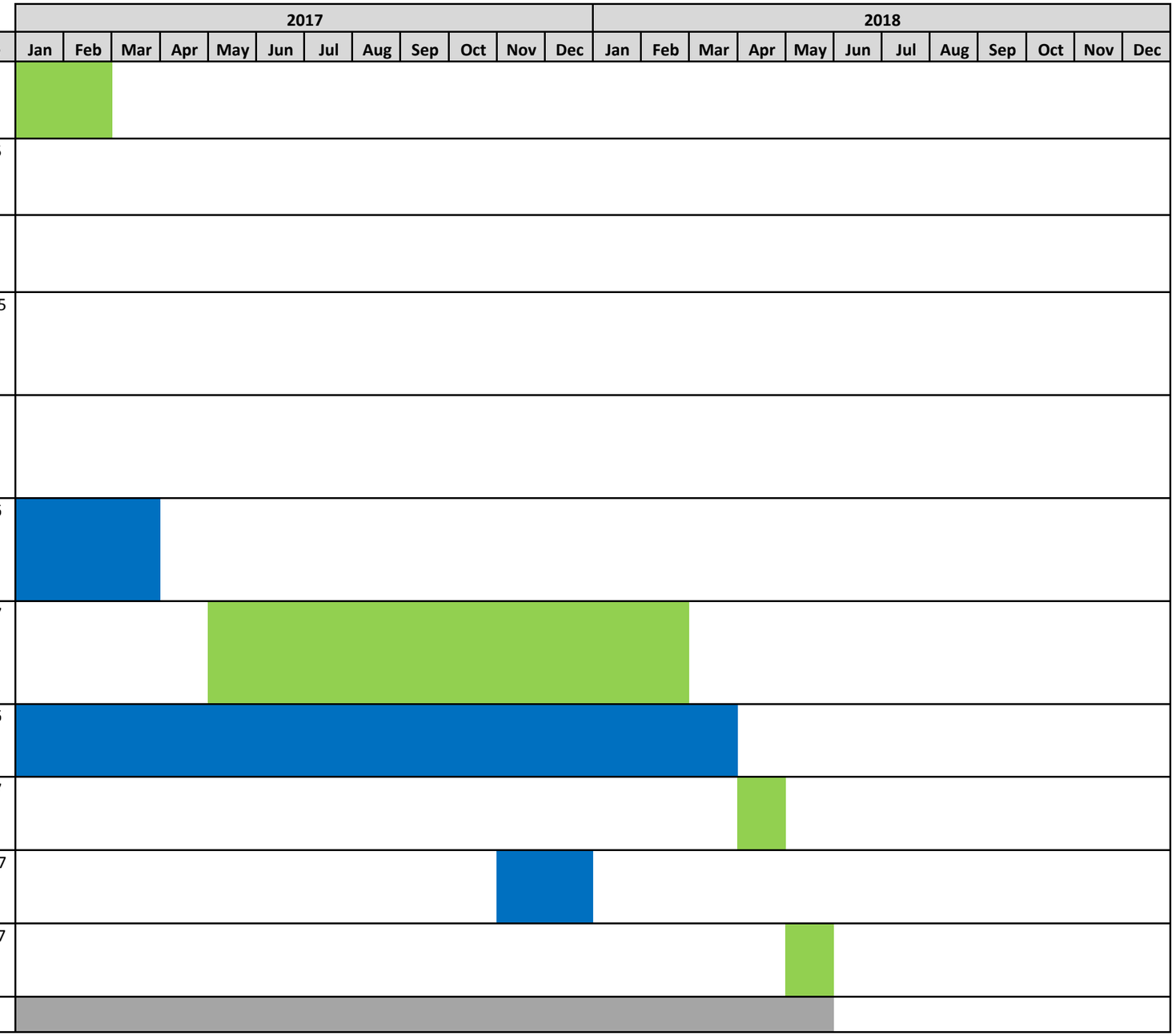
Phase No.	Phase Name	Tasks	Start Date	2015 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2016 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Mobilization	Maintain haul raods	1/5/2015																								
2	Pit F	Clear and grub, traffic control, assemble sprung structure, slurry trench excavation, dispose material.	1/19/2015																								
3	Remove Lagoon Material	Remove lagoons 3-5, transport and dispose	7/6/2015																								
4a	North Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	12/11/2015																								
4b	Easte Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	4/4/2016																								
4c	Central Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	11/1/2016																								
4d	South and West Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	5/16/2017																								
5	Final Grade	Backfill to final grade, install haul road	9/21/2016																								
6	Surface Water Controls	Install detention basins and V-ditch	11/1/2017																								
7	South Coast Oil Company	Cut to EL 0.00, transport and dispose of excavated material, backfill with rock, backfill to grade	11/29/2017																								
8	Site Restoration		12/22/2017																								
		TOTAL Duration																									

ASCON Health Risk Assessment

Remediation Schedule

Alternative 6

Phase No.	Phase Name	Tasks	Start Date
1	Mobilization	Maintain haul raods	1/5/2015
2	Pit F	Clear and grub, traffic control, assemble sprung structure, slurry trench excavation, dispose material.	1/19/2015
3	Remove Lagoon Material	Remove lagoons 3-5, transport and dispose	7/6/2015
4a	North Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	12/11/2015
4b	Easte Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	4/4/2016
4c	Central Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	11/1/2016
4d	South and West Parcel	Clear and grub, consolidate concrete rubble,excavate to EL 0.00, transport and dispose of excavated material, backfill with rock and soil.	5/16/2017
5	Final Grade	Backfill to final grade, install haul road	9/21/2016
6	Surface Water Controls	Install detention basins and V-ditch	11/1/2017
7	South Coast Oil Company	Cut to EL 0.00, transport and dispose of excavated material, backfill with rock, backfill to grade	11/29/2017
8	Site Restoration		12/22/2017
		TOTAL Duration	



ASCON Emissions Inventory

Equipment Exhaust and Fugitive Dust Calculation Assumptions

Source Summary and Description

Source	Description
Concrete Breaking	Concrete crusher
Grubbing and Grading	Bulldozing, grading, vegetation removal
Wind Erosion	Stockpiles (Temporary)
Excavation (Soil Handling)	Excavation, truck loading, earth moving
On-site Mobile Source (Exhaust)	Truck exhaust on-site, diesel particulate
On-site Mobile Source (Fugitive)	Truck reentrained dust
On-site Offroad Source (Exhaust)	Equipment exhaust on-site, diesel particulate

General Assumptions

Parameter	Value	Units	References
Remediation Hours per Day (Typical)	9	hours	Hours of Operation 7AM-4PM
Remediation Hours per Day (Maximum)	11	hours	Hours of Operation 7AM-6PM
Mitigation (% Reduction) - Watering	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive /MM_fugitive.html
Mitigation (% Reduction) - Watering + Soil Stabilizers	80	(%)	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.
U (mean wind speed)	1.46	m/s	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
U (mean wind speed)	3.26	mph	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
Soil Parameters			
s (silt content) - Overburden	6.9	%	AP-42, Chapter 11.9, Table 11.9-3. Bulldozer Overburden Silt Content.
s (silt content) - Unpaved Roads	8.5	%	AP-42, Chapter 13.2.2, Table 13.2.2-1. Average silt content for construction sites.
s (silt content) - Unpaved Roads (gravel)	6.4	%	Western Governors' Association, Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, Table 6-2. Average silt content for gravel/crushed limestone road surface material.
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Silt Content Range	0.44-19	(%)	AP-42, Chapter 13.2.4, Page 4. Nov 2006. Assumed range. No adjustments required.

Table 23 — Equipment Exhaust and Fugitive Dust Calculation Assumptions

General Assumptions

Soil Parameters	Value	Units	References
Soil Density	3000	lbs/CY	http://www.calrecycle.ca.gov/SWFAcilities/CDI/Tools/Calculations.htm. Wet Soil
Onsite Travel Distances			
Northern Haul Route Length	470	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
Southern Haul Route Length	760	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
All Haul Route Length	600	meters	Measured from center of Lagoons 1-2 to the northwest, northeast, and southwest corners. Average distance.

Concrete Breaking

	Value	Units	Notes
Total Amount of Concrete On-site	30,000	CY	Provided by Project Navigator.
Silica Content in Concrete/Cement	28	(%)	Case Study: Control of Respirable Dust and Crystalline Silica from Breaking Concreate with a Jackhammer. Applied Occupational and Environmental Hygiene. 2003. (Maximum of range of quartz content)

Grubbing & Grading

Equation Parameters	Value	Units	Notes
F (scaling factor) - Grading, PM10	0.6	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Bulldozing, PM10	0.75	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Grading, PM2.5	0.031	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
F (scaling factor) - Bulldozing, PM2.5	0.105	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
S (mean vehicle speed)	7.1	mph	AP-42 Chapter 11.9-9, Table 11.9-3. Default grader speed.
Assumptions			
Total Grubbing/Grading Area	914,760	ft2	21 Acres. Provided by Project Navigator.
Pit F Grubbing/Grading Area	13,225	ft2	Approximate Measurement. 115 ft x 115 ft.
Grading Equipment Blade Width	12	ft	Caterpillar 140M Grader Blade Width. CalEEMod default value. http://xml.catmms.com/servlet/ImageServlet?imageId=C617805
Grader Passes Required	2	passes	Assumed. Number of times grader will pass over an area for grubbing/grading.
Max Grading Area Per Day	2	acres	Provided by Project Navigator. Rough grading.

Table 23 — Equipment Exhaust and Fugitive Dust Calculation Assumptions

Wind Erosion

Equation Parameters	Value	Units	Notes
V (vegetative cover)	0	-	Default value
Ut (equivalent threshold value of wind speed at 7 m/	11.32	m/s	Default value
F(x) (Cowherd function)	0.194	-	Default value
Assumptions			
Exposure Duration (unstabilized)	1	hours	Maximum time after excavation where no soil stabilizing agent is applied or stockpile is covered
Exposure Duration (stabilized)	11	hours	Maximum time after soil is stabilized prior to removal to treatment cell , bin or off-site.

Excavation

Equation Parameters	Value	Units	Notes
k (dimensionless) - PM10	0.35		AP-42, Chapter 13.2.4, Page 4. Nov 2006
k (dimensionless) - PM2.5	0.053		AP-42, Chapter 13.2.4, Page 4. Nov 2006
Assumptions			
Times Soil is Handled	3	times	Assumes 3x handling. Excavation to truck, stockpile, stockpile to on-road truck.

Onsite Road (DPM)

Assumptions	Value	Units	Notes
Vehicle Class	T7 Single Construction	-	Assumed EMFAC Vehicle Class. http://www.arb.ca.gov/msei/vehicle-categories.xlsx
Vehicle Fleet Mix Model Year	1971-2016	-	EMFAC2011 default vehicle fleet mix - Orange County, Year 2015
Vehicle Fleet Mix Model Year (Mitigated)	2007-2016	-	2007 and newer trucks
Vehicle Speed On-site	5	mph	Assumed
Vehicle Weight (tons)	25	tons	Assumed T7 Trucks, ~30,000 to 60,000 lbs. http://www.arb.ca.gov/msei/vehicle-categories.xlsx
Idle Time per Vehicle	25	minutes	Provided by Project Navigator

Onsite Road (Dust)

Equation Parameters	Value	Units	Notes
W (vehicle weight)	25	tons	Assumed T7 Trucks, ~30,000 to 60,000 lbs
a (empirical constant)	0.9	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)

Onsite Road (Dust)

Table 23 — Equipment Exhaust and Fugitive Dust Calculation Assumptions

Equation Parameters	Value	Units	Notes
b (empirical constant)	0.45	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)
k (empirical constant) - PM10	1.5	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10)
k (empirical constant) - PM2.5	0.15	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM2.5)

Onsite Road - Equipment Emissions

Assumptions	Value	Units	Notes
Equipment Engine Tier	3	-	Refers to EPA emission standards (Tier 1-4) for Offroad equipment
Diesel Particulate Filter Reduction	0	%	CARB Level 3 certifieid diesel particulate filter (DPF)

ASCON Emissions Inventory

On-site Haul Roads - Reentrained Dust

Alternative 4

Emission Factor Equation

$$E = k(s/12)^a(W/3)^b$$

Where:

E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
M = surface material moisture content (%)
S = mean vehicle speed (mph)
a = empirical constant
b = empirical constant
k = empirical constant
Source: AP-42 13.2.2-4, Equation (1a)

Assumptions

Equation Parameters	Value	Units	Notes
s (silt content)	6.4	%	Western Governors' Association, Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, Table 6-2. Average silt content for gravel/crushed limestone road surface material.
W (vehicle weight)	25	tons	Assumed T7 Trucks, ~30,000 to 60,000 lbs
a (empirical constant)	0.9	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)
b (empirical constant)	0.45	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)
k (empirical constant) - PM10	1.5	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10)
k (empirical constant) - PM2.5	0.15	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM2.5)
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	80	(%)	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.
Northern Haul Route Length	470	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
Southern Haul Route Length	760	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
All Haul Route Length	600	meters	Measured from center of Lagoons 1-2 to the northwest, northeast, and southwest corners. Average distance.

Phases with Truck Activities

Phase	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Vehicle Weight	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Off-site Trucks														
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	2	5	1	60	10CY Dump	25	North	0.29	0.16	0.6	18
Pit F	Transport and Dispose of Impacted Material	2.5	16	16	16	2	256	Bin Trucks	25	North	0.29	0.52	4.7	75
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	21	25	3	441	Concrete Trucks	25	North	0.29	0.81	6.1	129
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	116	17	100	12	1,972	End Dumps	30	North	0.29	3.24	5.0	576
Fill to Final Grade	0	6.1	102	120	200	23	12,240	Bottom dumps	40	North	0.29	6.49	35.0	3,575
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	8	70	80	9	560	End Dumps	30	North	0.29	2.60	20.4	164

Table 24 — [Alternative 4] On-Site Haul Roads Reentrained Dust

Phase	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Avg. Vehicle Wgt. (tons)	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
On-site Trucks														
Mobilization	Maintain haul roads for duration of project	1.1	190	10	10	2	1,900	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	708
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	10	10	2	300	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	112
Pit F	Traffic Control and Temporary Fencing	2.2	5	10	10	2	50	3 ton stake-bed truck	25	All	0.37	0.41	3.7	19
Pit F	Slurry Trench Excavation(waste in bins)	2.4	8	1	2	1	8	Fuel Delivery Truck	25	All	0.37	0.08	0.4	3
Pit F	Slurry Trench Excavation(waste in bins)	2.4	8	5	10	2	40	Materials Delivery Truck	25	All	0.37	0.41	1.9	15
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	10	10	2	210	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	78
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	10	10	2	210	3 ton stake-bed truck for ODEX and foam	25	All	0.37	0.41	3.7	78
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	0	0	0	0	CAT 735 off-road dump truck	50	All	0.37	0.00	0.0	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	10	10	2	210	Concrete Dump Trucks	25	All	0.37	0.41	3.7	78
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	116	10	10	2	1,160	3 ton stake-bed truck for ODEX and foam	25	All	0.37	0.41	3.7	432
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	116	10	10	2	1,160	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	432
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	116	68	84	10	7,888	CAT 735 off-road dump truck	50	All	0.37	4.47	25.4	2,941
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	3.3	110	10	10	2	1,100	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	410
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	60	10	10	2	600	10 CY on-road dump truck	25	All	0.37	0.41	3.7	224
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	60	10	10	2	600	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	224
Fill to Final Grade	0	6.1	102	10	10	2	1,020	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	380
Surface Water Controls	Cut and Backfill	7.1	22	10	10	2	220	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	82
Surface Water Controls	Install V-Ditches	7.2	20	10	10	2	200	10 CY on-road dump truck	25	All	0.37	0.41	3.7	75
Surface Water Controls	Install V-Ditches	7.2	20	10	10	2	200	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	75
City Parcel	Cut and Backfill	8.1	6	10	10	2	60	3 ton stake-bed truck for ODEX and foam	25	All	0.37	0.41	3.7	22
City Parcel	Cut and Backfill	8.1	6	10	10	2	60	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	22
City Parcel	Cut and Backfill	8.1	6	68	84	10	408	CAT 735 off-road dump truck	50	All	0.37	4.47	25.4	152
City Parcel	Utility Poles	8.2	4	10	10	2	40	5 ton truck with auger	25	All	0.37	0.41	3.7	15
City Parcel	Utility Poles	8.2	4	10	10	2	40	10 CY on-road dump truck	25	All	0.37	0.41	3.7	15
South Coast Oil Corporation	Cut	9.1	6	10	10	2	60	3 ton stake-bed truck for ODEX and foam	25	All	0.37	0.41	3.7	22
South Coast Oil Corporation	Cut	9.1	6	68	84	10	408	CAT 735 off-road dump truck	50	All	0.37	4.47	25.4	152
South Coast Oil Corporation	Cut	9.1	6	10	10	2	60	Water truck	25	All	0.37	0.41	3.7	22
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	8	10	10	2	80	Water truck	25	All	0.37	0.41	3.7	30

Emissions Calculation

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/hr)	PM2.5 Emissions (lbs/hr)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	0.16	6.4	25	0.9	0.45	1.5	2.2	80	**0.07**	**0.01**

Table 24 — [Alternative 4] On-Site Haul Roads Reentrained Dust

Pit F	Transport and Dispose of Impacted Material		2.5	0.52	6.4	25	0.9	0.45	1.5	2.2	80	**0.23**	**0.02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	0.81	6.4	25	0.9	0.45	1.5	2.2	80	**0.36**	**0.04**
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	3.24	6.4	30	0.9	0.45	1.5	2.4	80	**1.56**	**0.16**
Fill to Final Grade		0	6.1	6.49	6.4	40	0.9	0.45	1.5	2.7	80	**3.55**	**0.35**
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	2.60	6.4	30	0.9	0.45	1.5	2.4	80	**1.25**	**0.12**

Phase	**Subphase**	**Phase / Subphase No.**	**Hourly VMT**	**s (%)**	**W (tons)**	**a**	**b**	**k**	**EF (lbs/mi)**	**Mitigation (%)**	**PM10 Emissions (lbs/hr)**	**PM2.5 Emissions (lbs/hr)**
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Pit F	Traffic Control and Temporary Fencing	2.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.08	6.4	25	0.9	0.45	1.5	2.2	80	**0.04**	**0.00**
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.00	6.4	50	0.9	0.45	1.5	3.0	80	**0.00**	**0.00**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	4.47	6.4	50	0.9	0.45	1.5	3.0	80	**2.70**	**0.27**
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	3.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Deep Fill	Concrete Debris: Consolidate, Reduce and Place as Select	0 5.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Deep Fill	Concrete Debris: Consolidate, Reduce and Place as Select	0 5.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Fill to Final Grade		0 6.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Surface Water Controls	Cut and Backfill	7.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Surface Water Controls	Install V-Ditches	7.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
Surface Water Controls	Install V-Ditches	7.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
City Parcel	Cut and Backfill	8.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
City Parcel	Cut and Backfill	8.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
City Parcel	Cut and Backfill	8.1	4.47	6.4	50	0.9	0.45	1.5	3.0	80	**2.70**	**0.27**
City Parcel	Utility Poles	8.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
City Parcel	Utility Poles	8.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
South Coast Oil Corporation	Cut	9.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
South Coast Oil Corporation	Cut	9.1	4.47	6.4	50	0.9	0.45	1.5	3.0	80	**2.70**	**0.27**
South Coast Oil Corporation	Cut	9.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	**0.18**	**0.02**

Annual

Table 24 — [Alternative 4] On-Site Haul Roads Reentrained Dust

Phase	Subphase	Phase / Subphase No.	Annual VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/year)	PM2.5 Emissions (lbs/year)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	18	6.4	25	0.9	0.45	1.5	2.2	80	**8**	**1**
Pit F	Transport and Dispose of Impacted Material	2.5	75	6.4	25	0.9	0.45	1.5	2.2	80	**33**	**3**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	129	6.4	25	0.9	0.45	1.5	2.2	80	**57**	**6**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	576	6.4	30	0.9	0.45	1.5	2.4	80	**277**	**28**
Fill to Final Grade	0	6.1	3,575	6.4	40	0.9	0.45	1.5	2.7	80	**1,954**	**195**
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	164	6.4	30	0.9	0.45	1.5	2.4	80	**79**	**8**
Annual												

Phase	Subphase	Phase / Subphase No.	Annual VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/year)	PM2.5 Emissions (lbs/year)
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	708	6.4	25	0.9	0.45	1.5	2.2	80	**313**	**31**
Pit F	Clear and grub, prepare haul roads, lay-down a	2.1	112	6.4	25	0.9	0.45	1.5	2.2	80	**49**	**5**
Pit F	Traffic Control and Temporary Fencing	2.2	19	6.4	25	0.9	0.45	1.5	2.2	80	**8**	**1**
Pit F	Slurry Trench Excavation(waste in bins)	2.4	3	6.4	25	0.9	0.45	1.5	2.2	80	**1**	**0**
Pit F	Slurry Trench Excavation(waste in bins)	2.4	15	6.4	25	0.9	0.45	1.5	2.2	80	**7**	**1**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	78	6.4	25	0.9	0.45	1.5	2.2	80	**35**	**3**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	78	6.4	25	0.9	0.45	1.5	2.2	80	**35**	**3**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0	6.4	50	0.9	0.45	1.5	3.0	80	**0**	**0**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	78	6.4	25	0.9	0.45	1.5	2.2	80	**35**	**3**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	432	6.4	25	0.9	0.45	1.5	2.2	80	**191**	**19**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	432	6.4	25	0.9	0.45	1.5	2.2	80	**191**	**19**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	2,941	6.4	50	0.9	0.45	1.5	3.0	80	**1,777**	**178**
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	3.3	410	6.4	25	0.9	0.45	1.5	2.2	80	**181**	**18**
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	224	6.4	25	0.9	0.45	1.5	2.2	80	**99**	**10**
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	224	6.4	25	0.9	0.45	1.5	2.2	80	**99**	**10**
Fill to Final Grade	0	6.1	380	6.4	25	0.9	0.45	1.5	2.2	80	**168**	**17**
Surface Water Controls	Cut and Backfill	7.1	82	6.4	25	0.9	0.45	1.5	2.2	80	**36**	**4**
Surface Water Controls	Install V-Ditches	7.2	75	6.4	25	0.9	0.45	1.5	2.2	80	**33**	**3**
Surface Water Controls	Install V-Ditches	7.2	75	6.4	25	0.9	0.45	1.5	2.2	80	**33**	**3**
City Parcel	Cut and Backfill	8.1	22	6.4	25	0.9	0.45	1.5	2.2	80	**10**	**1**
City Parcel	Cut and Backfill	8.1	22	6.4	25	0.9	0.45	1.5	2.2	80	**10**	**1**
City Parcel	Cut and Backfill	8.1	152	6.4	50	0.9	0.45	1.5	3.0	80	**92**	**9**
City Parcel	Utility Poles	8.2	15	6.4	25	0.9	0.45	1.5	2.2	80	**7**	**1**
City Parcel	Utility Poles	8.2	15	6.4	25	0.9	0.45	1.5	2.2	80	**7**	**1**
South Coast Oil Corporation	Cut	9.1	22	6.4	25	0.9	0.45	1.5	2.2	80	**10**	**1**
South Coast Oil Corporation	Cut	9.1	152	6.4	50	0.9	0.45	1.5	3.0	80	**92**	**9**

South Coast Oil Corporation	Cut	9.1	22	6.4	25	0.9	0.45	1.5	2.2	80	10	1
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	30	6.4	25	0.9	0.45	1.5	2.2	80	13	1

Daily

Phase	Subphase	Phase / Subphase No.	Daily VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/day)	PM2.5 Emissions (lbs/day)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	1	6.4	25	0.9	0.45	1.5	2.2	80	0	0
Pit F	Transport and Dispose of Impacted Material	2.5	5	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	6	6.4	25	0.9	0.45	1.5	2.2	80	3	0
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	5	6.4	30	0.9	0.45	1.5	2.4	80	2	0
Fill to Final Grade	0	6.1	35	6.4	40	0.9	0.45	1.5	2.7	80	19	2
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	20	6.4	30	0.9	0.45	1.5	2.4	80	10	1

Phase	Subphase	Phase / Subphase No.	Daily VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/day)	PM2.5 Emissions (lbs/day)
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Pit F	Traffic Control and Temporary Fencing	2.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0	6.4	25	0.9	0.45	1.5	2.2	80	0	0
Pit F	Slurry Trench Excavation(waste in bins)	2.4	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0	6.4	50	0.9	0.45	1.5	3.0	80	0	0
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	25	6.4	50	0.9	0.45	1.5	3.0	80	15	2
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	3.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	0	5.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Fill to Final Grade	0	6.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Surface Water Controls	Cut and Backfill	7.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Surface Water Controls	Install V-Ditches	7.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
Surface Water Controls	Install V-Ditches	7.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
City Parcel	Cut and Backfill	8.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0
City Parcel	Cut and Backfill	8.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0

Table 24 — [Alternative 4] On-Site Haul Roads Reentrained Dust

City Parcel	Cut and Backfill	8.1	25	6.4	50	0.9	0.45	1.5	3.0	80	**15**	**2**
City Parcel	Utility Poles	8.2	4	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0**
City Parcel	Utility Poles	8.2	4	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0**
South Coast Oil Corporation	Cut	9.1	4	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0**
South Coast Oil Corporation	Cut	9.1	25	6.4	50	0.9	0.45	1.5	3.0	80	**15**	**2**
South Coast Oil Corporation	Cut	9.1	4	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0**
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	4	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0**

ASCON HRA - Emissions Inventory

On-site Haul Roads - Reentrained Dust

Emission Factor Equation

$$E = k(s/12)^a(W/3)^b$$

Where:
E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
M = surface material moisture content (%)
S = mean vehicle speed (mph)
a = empirical constant
b = empirical constant
k = empirical constant
Source: AP-42 13.2.2-4, Equation (1a)

Assumptions

Equation Parameters	Value	Units	Notes
s (silt content)	6.4	%	Western Governors' Association, Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, Table 6-2. Average silt content for gravel/crushed limestone road surface material.
W (vehicle weight)	25-50	tons	Assumed T7 Trucks, ~30,000 to 80,000 lbs, Cat735 = 50 tons.
a (empirical constant)	0.9	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)
b (empirical constant)	0.45	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10 and PM2.5)
k (empirical constant) - PM10	1.5	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM10)
k (empirical constant) - PM2.5	0.15	-	AP-42, Chapter 13.2.2, Table 13.2.2-2. Industrial Roads (PM2.5)
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	80	(%)	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.
Northern Haul Route Length	470	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
Southern Haul Route Length	760	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
All Haul Route Length	600	meters	Measured from center of Lagoons 1-2 to the northwest, northeast, and southwest corners. Average distance.

Phases with Truck Activities

Phase	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Vehicle Weight (tons)	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Off-site Trucks														
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	22	6	8	1	132	10CY Dump	25	North	0.29	0.26	2.3	39
Pit F	Transport and Dispose of Impacted Material	2.5	100	3	80	9	300	Bin Trucks	25	North	0.29	2.60	23.4	88
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	114	90	100	12	10,260	End Dumps	30	North	0.29	3.24	29.2	2,996
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	7	6	8	1	42	10CY Dump	25	North	0.29	0.26	2.3	12
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	15	6	8	1	90	10CY Dump	25	North	0.29	0.26	2.3	26
North Parcel	Transport and dispose of excavated material	4a.4	75	90	100	12	6,750	End dumps	30	North	0.29	3.24	29.2	1,971
North Parcel	Backfill with rock	4a.5	45	20	25	3	900	End Dumps	30	North	0.29	0.81	7.3	263
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	45	20	30	4	900	End Dumps	30	North	0.29	0.97	8.8	263
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	5	6	8	1	30	10CY Dump	25	North	0.29	0.26	2.3	9
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	10	6	8	1	60	10CY Dump	25	North	0.29	0.26	2.3	18
East Parcel	Transport and dispose of excavated material	4b.4	141	90	100	12	12,690	End Dumps	30	North	0.29	3.24	29.2	3,706
East Parcel	Backfill with rock	4b.5	27	20	25	3	540	End Dumps	30	North	0.29	0.81	7.3	158
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	27	20	30	4	540	End Dumps	30	North	0.29	0.97	8.8	158
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	7	6	8	1	42	10CY Dump	25	North	0.29	0.26	2.3	12
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	15	6	8	1	90	10CY Dump	25	North	0.29	0.26	2.3	26
Central Parcel	Transport and dispose of excavated material	4c.4	125	90	100	12	11,250	End Dumps	30	North	0.29	3.24	29.2	3,286
Central Parcel	Backfill with rock	4c.5	48	20	25	3	960	End Dumps	30	North	0.29	0.81	7.3	280
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	48	20	30	4	960	End Dumps	30	North	0.29	0.97	8.8	280
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	10	6	8	1	60	10CY Dump	25	South	0.47	0.42	3.8	28
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	15	6	8	1	90	10CY Dump	25	South	0.47	0.42	3.8	43
South and West Parcel	Transport and dispose of excavated material	4d.4	262	90	100	12	23,580	End Dumps	30	South	0.47	5.25	47.2	11,135
South and West Parcel	Backfill with rock	4d.5	72	20	25	3	1,440	End Dumps	30	South	0.47	1.31	11.8	680
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	72	20	30	4	1,440	End Dumps	30	South	0.47	1.57	14.2	680
Final Grade	Backfill to final grade	5.1	233	115	200	23	26,795	Bottom dumps	40	All	0.37	8.28	74.6	9,990
Final Grade	Install haul road	5.2	10	10	15	2	100	End Dumps	30	All	0.37	0.62	5.6	37
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	9	90	100	12	810	End Dumps	30	South	0.47	5.25	47.2	383
South Coast Oil Corporation	Backfill with rock	7.3	7	20	25	3	140	End Dumps	30	South	0.47	1.31	11.8	66
South Coast Oil Corporation	Backfill to grade	7.4	1	70	80	9	70	End Dumps	30	South	0.47	4.20	37.8	33
Site Restoration	Site Restoration	8.1	5	3	5	1	15	Flat Bed	25	All	0.37	0.21	1.9	6

Table 25 - [Alternative 6] On-site Haul Road Reentrained Dust

Phase	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Vehicle Weight (tons)	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
On-site Trucks														
Mobilization	Maintain haul roads for duration of project	1.1	739	10	10	2	7,390	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	2,755
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	22	10	10	2	220	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	82
Pit F	Traffic Control and Temporary Fencing	2.2	5	10	10	2	50	3 ton stake-bed truck	25	All	0.37	0.41	3.7	19
Pit F	Slurry Trench Excavation(waste in bins)	2.4	15	10	10	2	150	Fuel Delivery Truck	25	All	0.37	0.41	3.7	56
Pit F	Slurry Trench Excavation(waste in bins)	2.4	101	10	10	2	1,010	Materials Delivery Truck	25	All	0.37	0.41	3.7	377
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	98	10	10	2	980	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	98	10	10	2	980	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	98	84	84	12	8,232	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	3,069
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	98	10	10	2	980	Fuel Delivery Truck	25	All	0.37	0.41	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	98	10	10	2	980	Materials Delivery Truck	25	All	0.37	0.41	3.7	365
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	15	10	10	2	150	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	56
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	84	84	12	6,216	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	2,317
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Fuel Delivery Truck	25	All	0.37	0.41	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Materials Delivery Truck	25	All	0.37	0.41	3.7	276
North Parcel	Backfill with rock	4a.5	45	10	10	2	450	Water truck	25	All	0.37	0.41	3.7	168
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	45	10	10	2	450	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	168
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	10	10	10	2	100	Water truck	25	All	0.37	0.41	3.7	37
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	84	84	12	10,920	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	4,071
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Fuel Delivery Truck	25	All	0.37	0.41	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Materials Delivery Truck	25	All	0.37	0.41	3.7	485
East Parcel	Backfill with rock	4b.5	27	10	10	2	270	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	101
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	27	10	10	2	270	Water truck	25	All	0.37	0.41	3.7	101
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	15	10	10	2	150	Water Truck	25	All	0.37	0.41	3.7	56
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	84	84	12	10,416	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	3,883
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Fuel Delivery Truck	25	All	0.37	0.41	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Materials Delivery Truck	25	All	0.37	0.41	3.7	462
Central Parcel	Backfill with rock	4c.5	48	10	10	2	480	Water truck	25	All	0.37	0.41	3.7	179
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	48	10	10	2	480	Water truck	25	All	0.37	0.41	3.7	179
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	15	10	10	2	150	Water Truck	25	All	0.37	0.41	3.7	56
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Water Truck 4000 Gal	25	All	0.37	0.41	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	84	84	12	21,672	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	8,080
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Fuel Delivery Truck	25	All	0.37	0.41	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Materials Delivery Truck	25	All	0.37	0.41	3.7	962
South and West Parcel	Backfill with rock	4d.5	72	10	10	2	720	Water truck	25	All	0.37	0.41	3.7	268
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	72	10	10	2	720	Water truck	25	All	0.37	0.41	3.7	268
Final Grade	Backfill to final grade	5.1	233	10	10	2	2,330	Water truck	25	All	0.37	0.41	3.7	869
Final Grade	Backfill to final grade	5.1	233	10	10	2	2,330	Water truck	25	All	0.37	0.41	3.7	869
Final Grade	Install haul road	5.2	10	10	10	2	100	Water truck	25	All	0.37	0.41	3.7	37
Final Grade	Install haul road	5.2	10	10	10	2	100	Water truck	25	All	0.37	0.41	3.7	37
Fill to Final Grade	Install detention basins	6.1	22	10	10	2	220	Water truck	25	All	0.37	0.41	3.7	82
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	20	10	10	2	200	10 CY on-road dump truck	25	All	0.37	0.41	3.7	75
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	20	10	10	2	200	Water truck	25	All	0.37	0.41	3.7	75
South Coast Oil Corporation	Cut	7.1	8	10	10	2	80	on stake-bed truck for ODEX and fo	25	All	0.37	0.41	3.7	30
South Coast Oil Corporation	Cut	7.1	8	84	84	12	672	CAT 735 off-road dump truck	50	All	0.37	4.47	31.3	251
South Coast Oil Corporation	Cut	7.1	8	10	10	2	80	Water truck	25	All	0.37	0.41	3.7	30
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	9	10	10	2	90	Water truck	25	All	0.37	0.41	3.7	34
South Coast Oil Corporation	Backfill with rock	7.3	7	10	10	2	70	Water truck	25	All	0.37	0.41	3.7	26
South Coast Oil Corporation	Backfill to grade	7.4	1	10	10	2	10	Water truck	25	All	0.37	0.41	3.7	4

Emissions Calculation

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/hr)	PM2.5 Emissions (lbs/hr)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
Pit F	Transport and Dispose of Impacted Material	2.5	2.60	6.4	25	0.9	0.45	1.5	2.2	80	**1.15**	**0.11**
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	3.24	6.4	30	0.9	0.45	1.5	2.4	80	**1.56**	**0.16**
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
North Parcel	Transport and dispose of excavated material	4a.4	3.24	6.4	30	0.9	0.45	1.5	2.4	80	**1.56**	**0.16**
North Parcel	Backfill with rock	4a.5	0.81	6.4	30	0.9	0.45	1.5	2.4	80	**0.39**	**0.04**
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	0.97	6.4	30	0.9	0.45	1.5	2.4	80	**0.47**	**0.05**
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
East Parcel	Transport and dispose of excavated material	4b.4	3.24	6.4	30	0.9	0.45	1.5	2.4	80	**1.56**	**0.16**
East Parcel	Backfill with rock	4b.5	0.81	6.4	30	0.9	0.45	1.5	2.4	80	**0.39**	**0.04**
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	0.97	6.4	30	0.9	0.45	1.5	2.4	80	**0.47**	**0.05**
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	0.26	6.4	25	0.9	0.45	1.5	2.2	80	**0.11**	**0.01**
Central Parcel	Transport and dispose of excavated material	4c.4	3.24	6.4	30	0.9	0.45	1.5	2.4	80	**1.56**	**0.16**
Central Parcel	Backfill with rock	4c.5	0.81	6.4	30	0.9	0.45	1.5	2.4	80	**0.39**	**0.04**
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	0.97	6.4	30	0.9	0.45	1.5	2.4	80	**0.47**	**0.05**
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	0.42	6.4	25	0.9	0.45	1.5	2.2	80	**0.19**	**0.02**
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	0.42	6.4	25	0.9	0.45	1.5	2.2	80	**0.19**	**0.02**
South and West Parcel	Transport and dispose of excavated material	4d.4	5.25	6.4	30	0.9	0.45	1.5	2.4	80	**2.52**	**0.25**
South and West Parcel	Backfill with rock	4d.5	1.31	6.4	30	0.9	0.45	1.5	2.4	80	**0.63**	**0.06**
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	1.57	6.4	30	0.9	0.45	1.5	2.4	80	**0.76**	**0.08**
Final Grade	Backfill to final grade	5.1	8.28	6.4	40	0.9	0.45	1.5	2.7	80	**4.53**	**0.45**
Final Grade	Install haul road	5.2	0.62	6.4	30	0.9	0.45	1.5	2.4	80	**0.30**	**0.03**
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	5.25	6.4	30	0.9	0.45	1.5	2.4	80	**2.52**	**0.25**
South Coast Oil Corporation	Backfill with rock	7.3	1.31	6.4	30	0.9	0.45	1.5	2.4	80	**0.63**	**0.06**
South Coast Oil Corporation	Backfill to grade	7.4	4.20	6.4	30	0.9	0.45	1.5	2.4	80	**2.02**	**0.20**
Site Restoration	Site Restoration	8.1	0.21	6.4	25	0.9	0.45	1.5	2.2	80	**0.09**	**0.01**

Table 25 - [Alternative 6] On-site Haul Road Reentrained Dust

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/hr)	PM2.5 Emissions (lbs/hr)
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Pit F	Traffic Control and Temporary Fencing	2.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Backfill with rock	4a.5	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Backfill with rock	4b.5	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Backfill with rock	4c.5	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Backfill with rock	4d.5	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Final Grade	Backfill to final grade	5.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Final Grade	Backfill to final grade	5.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Final Grade	Install haul road	5.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Final Grade	Install haul road	5.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Fill to Final Grade	Install detention basins	6.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South Coast Oil Corporation	Cut	7.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South Coast Oil Corporation	Cut	7.1	4.47	6.4	50	0.9	0.45	1.5	3.0	80	2.70	0.27
South Coast Oil Corporation	Cut	7.1	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South Coast Oil Corporation	Backfill with rock	7.3	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02
South Coast Oil Corporation	Backfill to grade	7.4	0.41	6.4	25	0.9	0.45	1.5	2.2	80	0.18	0.02

Table 25 - [Alternative 6] On-site Haul Road Reentrained Dust

Annual

Phase	Subphase	Phase / Subphase No.	Annual VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/year)	PM2.5 Emissions (lbs/year)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	39	6.4	25	0.9	0.45	1.5	2.2	80	**17**	**1.7**
Pit F	Transport and Dispose of Impacted Material	2.5	88	6.4	25	0.9	0.45	1.5	2.2	80	**39**	**3.9**
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	2,996	6.4	30	0.9	0.45	1.5	2.4	80	**1,439**	**143.9**
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	12	6.4	25	0.9	0.45	1.5	2.2	80	**5**	**0.5**
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	26	6.4	25	0.9	0.45	1.5	2.2	80	**12**	**1.2**
North Parcel	Transport and dispose of excavated material	4a.4	1,971	6.4	30	0.9	0.45	1.5	2.4	80	**947**	**94.7**
North Parcel	Backfill with rock	4a.5	263	6.4	30	0.9	0.45	1.5	2.4	80	**126**	**12.6**
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	263	6.4	30	0.9	0.45	1.5	2.4	80	**126**	**12.6**
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	9	6.4	25	0.9	0.45	1.5	2.2	80	**4**	**0.4**
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	18	6.4	25	0.9	0.45	1.5	2.2	80	**8**	**0.8**
East Parcel	Transport and dispose of excavated material	4b.4	3,706	6.4	30	0.9	0.45	1.5	2.4	80	**1,780**	**178.0**
East Parcel	Backfill with rock	4b.5	158	6.4	30	0.9	0.45	1.5	2.4	80	**76**	**7.6**
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	158	6.4	30	0.9	0.45	1.5	2.4	80	**76**	**7.6**
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	12	6.4	25	0.9	0.45	1.5	2.2	80	**5**	**0.5**
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	26	6.4	25	0.9	0.45	1.5	2.2	80	**12**	**1.2**
Central Parcel	Transport and dispose of excavated material	4c.4	3,286	6.4	30	0.9	0.45	1.5	2.4	80	**1,578**	**157.8**
Central Parcel	Backfill with rock	4c.5	280	6.4	30	0.9	0.45	1.5	2.4	80	**135**	**13.5**
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	280	6.4	30	0.9	0.45	1.5	2.4	80	**135**	**13.5**
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	28	6.4	25	0.9	0.45	1.5	2.2	80	**13**	**1.3**
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	43	6.4	25	0.9	0.45	1.5	2.2	80	**19**	**1.9**
South and West Parcel	Transport and dispose of excavated material	4d.4	11,135	6.4	30	0.9	0.45	1.5	2.4	80	**5,347**	**534.7**
South and West Parcel	Backfill with rock	4d.5	680	6.4	30	0.9	0.45	1.5	2.4	80	**327**	**32.7**
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	680	6.4	30	0.9	0.45	1.5	2.4	80	**327**	**32.7**
Final Grade	Backfill to final grade	5.1	9,990	6.4	40	0.9	0.45	1.5	2.7	80	**5,460**	**546.0**
Final Grade	Install haul road	5.2	37	6.4	30	0.9	0.45	1.5	2.4	80	**18**	**1.8**
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	383	6.4	30	0.9	0.45	1.5	2.4	80	**184**	**18.4**
South Coast Oil Corporation	Backfill with rock	7.3	66	6.4	30	0.9	0.45	1.5	2.4	80	**32**	**3.2**
South Coast Oil Corporation	Backfill to grade	7.4	33	6.4	30	0.9	0.45	1.5	2.4	80	**16**	**1.6**
Site Restoration	Site Restoration	8.1	6	6.4	25	0.9	0.45	1.5	2.2	80	**2**	**0.2**

Table 25 - [Alternative 6] On-site Haul Road Reentrained Dust

Annual

Phase	Subphase	Phase / Subphase No.	Annual VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/year)	PM2.5 Emissions (lbs/year)
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	2,755	6.4	25	0.9	0.45	1.5	2.2	80	1,219	121.9
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	82	6.4	25	0.9	0.45	1.5	2.2	80	36	3.6
Pit F	Traffic Control and Temporary Fencing	2.2	19	6.4	25	0.9	0.45	1.5	2.2	80	8	0.8
Pit F	Slurry Trench Excavation(waste in bins)	2.4	56	6.4	25	0.9	0.45	1.5	2.2	80	25	2.5
Pit F	Slurry Trench Excavation(waste in bins)	2.4	377	6.4	25	0.9	0.45	1.5	2.2	80	167	16.7
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	365	6.4	25	0.9	0.45	1.5	2.2	80	162	16.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	365	6.4	25	0.9	0.45	1.5	2.2	80	162	16.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	3,069	6.4	50	0.9	0.45	1.5	3.0	80	1,855	185.5
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	365	6.4	25	0.9	0.45	1.5	2.2	80	162	16.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	365	6.4	25	0.9	0.45	1.5	2.2	80	162	16.2
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	56	6.4	25	0.9	0.45	1.5	2.2	80	25	2.5
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	6.4	25	0.9	0.45	1.5	2.2	80	122	12.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	6.4	25	0.9	0.45	1.5	2.2	80	122	12.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	2,317	6.4	50	0.9	0.45	1.5	3.0	80	1,400	140.0
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	6.4	25	0.9	0.45	1.5	2.2	80	122	12.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	6.4	25	0.9	0.45	1.5	2.2	80	122	12.2
North Parcel	Backfill with rock	4a.5	168	6.4	25	0.9	0.45	1.5	2.2	80	74	7.4
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	168	6.4	25	0.9	0.45	1.5	2.2	80	74	7.4
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	37	6.4	25	0.9	0.45	1.5	2.2	80	16	1.6
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	6.4	25	0.9	0.45	1.5	2.2	80	214	21.4
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	6.4	25	0.9	0.45	1.5	2.2	80	214	21.4
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4,071	6.4	50	0.9	0.45	1.5	3.0	80	2,460	246.0
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	6.4	25	0.9	0.45	1.5	2.2	80	214	21.4
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	6.4	25	0.9	0.45	1.5	2.2	80	214	21.4
East Parcel	Backfill with rock	4b.5	101	6.4	25	0.9	0.45	1.5	2.2	80	45	4.5
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	101	6.4	25	0.9	0.45	1.5	2.2	80	45	4.5
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	56	6.4	25	0.9	0.45	1.5	2.2	80	25	2.5
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	6.4	25	0.9	0.45	1.5	2.2	80	205	20.5
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	6.4	25	0.9	0.45	1.5	2.2	80	205	20.5
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	3,883	6.4	50	0.9	0.45	1.5	3.0	80	2,347	234.7
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	6.4	25	0.9	0.45	1.5	2.2	80	205	20.5
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	6.4	25	0.9	0.45	1.5	2.2	80	205	20.5
Central Parcel	Backfill with rock	4c.5	179	6.4	25	0.9	0.45	1.5	2.2	80	79	7.9
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	179	6.4	25	0.9	0.45	1.5	2.2	80	79	7.9
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	56	6.4	25	0.9	0.45	1.5	2.2	80	25	2.5
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	6.4	25	0.9	0.45	1.5	2.2	80	426	42.6
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	6.4	25	0.9	0.45	1.5	2.2	80	426	42.6
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	8,080	6.4	50	0.9	0.45	1.5	3.0	80	4,883	488.3
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	6.4	25	0.9	0.45	1.5	2.2	80	426	42.6
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	6.4	25	0.9	0.45	1.5	2.2	80	426	42.6
South and West Parcel	Backfill with rock	4d.5	268	6.4	25	0.9	0.45	1.5	2.2	80	119	11.9
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	268	6.4	25	0.9	0.45	1.5	2.2	80	119	11.9
Final Grade	Backfill to final grade	5.1	869	6.4	25	0.9	0.45	1.5	2.2	80	384	38.4
Final Grade	Backfill to final grade	5.1	869	6.4	25	0.9	0.45	1.5	2.2	80	384	38.4
Final Grade	Install haul road	5.2	37	6.4	25	0.9	0.45	1.5	2.2	80	16	1.6
Final Grade	Install haul road	5.2	37	6.4	25	0.9	0.45	1.5	2.2	80	16	1.6
Fill to Final Grade	Install detention basins	6.1	82	6.4	25	0.9	0.45	1.5	2.2	80	36	3.6
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	75	6.4	25	0.9	0.45	1.5	2.2	80	33	3.3
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	75	6.4	25	0.9	0.45	1.5	2.2	80	33	3.3
South Coast Oil Corporation	Cut	7.1	30	6.4	25	0.9	0.45	1.5	2.2	80	13	1.3
South Coast Oil Corporation	Cut	7.1	251	6.4	50	0.9	0.45	1.5	3.0	80	151	15.1
South Coast Oil Corporation	Cut	7.1	30	6.4	25	0.9	0.45	1.5	2.2	80	13	1.3
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	34	6.4	25	0.9	0.45	1.5	2.2	80	15	1.5
South Coast Oil Corporation	Backfill with rock	7.3	26	6.4	25	0.9	0.45	1.5	2.2	80	12	1.2
South Coast Oil Corporation	Backfill to grade	7.4	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2

Daily

Phase	Subphase	Phase / Subphase No.	Daily VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/day)	PM2.5 Emissions (lbs/day)
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
Pit F	Transport and Dispose of Impacted Material	2.5	23	6.4	25	0.9	0.45	1.5	2.2	80	10	1.0
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	29	6.4	30	0.9	0.45	1.5	2.4	80	14	1.4
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
North Parcel	Transport and dispose of excavated material	4a.4	29	6.4	30	0.9	0.45	1.5	2.4	80	14	1.4
North Parcel	Backfill with rock	4a.5	7	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	9	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
East Parcel	Transport and dispose of excavated material	4b.4	29	6.4	30	0.9	0.45	1.5	2.4	80	14	1.4
East Parcel	Backfill with rock	4b.5	7	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	9	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1
Central Parcel	Transport and dispose of excavated material	4c.4	29	6.4	30	0.9	0.45	1.5	2.4	80	14	1.4
Central Parcel	Backfill with rock	4c.5	7	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	9	6.4	30	0.9	0.45	1.5	2.4	80	4	0.4
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Transport and dispose of excavated material	4d.4	47	6.4	30	0.9	0.45	1.5	2.4	80	23	2.3
South and West Parcel	Backfill with rock	4d.5	12	6.4	30	0.9	0.45	1.5	2.4	80	6	0.6
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	14	6.4	30	0.9	0.45	1.5	2.4	80	7	0.7
Final Grade	Backfill to final grade	5.1	75	6.4	40	0.9	0.45	1.5	2.7	80	41	4.1
Final Grade	Install haul road	5.2	6	6.4	30	0.9	0.45	1.5	2.4	80	3	0.3
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	47	6.4	30	0.9	0.45	1.5	2.4	80	23	2.3
South Coast Oil Corporation	Backfill with rock	7.3	12	6.4	30	0.9	0.45	1.5	2.4	80	6	0.6
South Coast Oil Corporation	Backfill to grade	7.4	38	6.4	30	0.9	0.45	1.5	2.4	80	18	1.8
Site Restoration	Site Restoration	8.1	2	6.4	25	0.9	0.45	1.5	2.2	80	1	0.1

Table 25 - [Alternative 6] On-site Haul Road Reentrained Dust

Daily

Phase	Subphase	Phase / Subphase No.	Daily VMT	s (%)	W (tons)	a	b	k	EF (lbs/mi)	Mitigation (%)	PM10 Emissions (lbs/day)	PM2.5 Emissions (lbs/day)
On-site Trucks												
Mobilization	Maintain haul roads for duration of project	1.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Pit F	Traffic Control and Temporary Fencing	2.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Pit F	Slurry Trench Excavation(waste in bins)	2.4	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Pit F	Slurry Trench Excavation(waste in bins)	2.4	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with	3.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Backfill with rock	4a.5	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Backfill with rock	4b.5	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Backfill with rock	4c.5	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Backfill with rock	4d.5	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Final Grade	Backfill to final grade	5.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Final Grade	Backfill to final grade	5.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Final Grade	Install haul road	5.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Final Grade	Install haul road	5.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Fill to Final Grade	Install detention basins	6.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South Coast Oil Corporation	Cut	7.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South Coast Oil Corporation	Cut	7.1	31	6.4	50	0.9	0.45	1.5	3.0	80	19	1.9
South Coast Oil Corporation	Cut	7.1	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South Coast Oil Corporation	Backfill with rock	7.3	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2
South Coast Oil Corporation	Backfill to grade	7.4	4	6.4	25	0.9	0.45	1.5	2.2	80	2	0.2

ASCON HRA - Emissions Inventory

Soil Excavation and Handling - Fugitive Dust Calculations

Emission Factor Equation

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

Where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

Source: AP-42 13.2.4-3, Equation (1)

Assumptions

Equation Parameters	Value	Units	Notes
k (dimensionless) - PM10	0.35	0	AP-42, Chapter 13.2.4, Page 4. Nov 2006
k (dimensionless) - PM2.5	0.053	0	AP-42, Chapter 13.2.4, Page 4. Nov 2006
U (mean wind speed)	3.26	mph	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Assumptions			
Silt Content	8.5	%	AP-42, Chapter 11.9, Table 11.9-3. Bulldozer Overburden Silt Content. 0.44-19
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Soil Density	3000	lbs/CY	http://www.calrecycle.ca.gov/SWFAcilities/CDI/Tools/Calculations.htm. Wet Soil
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html
Times Soil is Handled	3	times	Assumes 3x handling. Excavation to truck, stockpile, stockpile to on-road truck. Verify with PN

Phases with Excavation Activities

Phase	Subphase	Phase / Subphase No.	Duration (days)	Average Daily (CY)	Max Daily (CY)	Max Hourly (CY)	Total (CY)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	8	300	400	44.4	2,250
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	208	225	25.0	4,368
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	116	1,800	2,500	277.8	191,090
City Parcel	Cut and Backfill	8.1	6	2,300	2,300	255.6	5,689
City Parcel	Utility Poles	8.2	4	2	2	0.2	8
South Coast Oil Corporation	Cut	9.1	6	2,000	2,200	244.4	9,400

Table 26 - [Alternative 4] Soil Excavation and Handling Fugitive Dust

Emissions Calculation (PM10

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly CY	Hourly (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/hr)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	44.4	67	0.35	3.26	7.9	9.39E-05	61	**7.32E-03**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	25.0	38	0.35	3.26	7.9	9.39E-05	61	**4.12E-03**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	277.8	417	0.35	3.26	7.9	9.39E-05	61	**4.58E-02**
City Parcel	Cut and Backfill	8.1	255.6	383	0.35	3.26	7.9	9.39E-05	61	**4.21E-02**
City Parcel	Utility Poles	8.2	0.2	0	0.35	3.26	7.9	9.39E-05	61	**3.66E-05**
South Coast Oil Corporation	Cut	9.1	244.4	367	0.35	3.26	7.9	9.39E-05	61	**4.03E-02**

Annual

Phase	Subphase	Phase / Subphase No.	Annual CY	Annual (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/year)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	2,250	3,375	0.35	3.26	7.9	9.39E-05	61	**3.71E-01**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	4,368	6,552	0.35	3.26	7.9	9.39E-05	61	**7.20E-01**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	191,090	286,635	0.35	3.26	7.9	9.39E-05	61	**3.15E+01**
City Parcel	Cut and Backfill	8.1	5,689	8,534	0.35	3.26	7.9	9.39E-05	61	**9.37E-01**
City Parcel	Utility Poles	8.2	8	12	0.35	3.26	7.9	9.39E-05	61	**1.32E-03**
South Coast Oil Corporation	Cut	9.1	9,400	14,100	0.35	3.26	7.9	9.39E-05	61	**1.55E+00**

Daily

Phase	Subphase	Phase / Subphase No.	Daily CY	Daily (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/day)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	300	450	0.35	3.26	7.9	9.39E-05	61	**4.94E-02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	208	312	0.35	3.26	7.9	9.39E-05	61	**3.43E-02**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	1,800	2,700	0.35	3.26	7.9	9.39E-05	61	**2.97E-01**
City Parcel	Cut and Backfill	8.1	2,300	3,450	0.35	3.26	7.9	9.39E-05	61	**3.79E-01**
City Parcel	Utility Poles	8.2	2	3	0.35	3.26	7.9	9.39E-05	61	**3.29E-04**
South Coast Oil Corporation	Cut	9.1	2,000	3,000	0.35	3.26	7.9	9.39E-05	61	**3.29E-01**

Notes:
1) USEPA AP-42, Fifth Edition, Volume 1 Chapter 13: Miscellaneous Sources, Equation 13.2.4 (November 2006)
2) USEPA AP-42 Equation 13.2.4-3, Aerodynamic Particle Size Multiplier for k
3) Project Navigator on-site soil sampling data

Emissions Calculation (PM2.5)

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly CY	Hourly (tons)	Equation Parameters k (PM2.5)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/hr)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	44.4	67	0.053	3.26	7.9	1.42E-05	61	**1.11E-03**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	25.0	38	0.053	3.26	7.9	1.42E-05	61	**6.24E-04**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	277.8	417	0.053	3.26	7.9	1.42E-05	61	**6.93E-03**
City Parcel	Cut and Backfill	8.1	255.6	383	0.053	3.26	7.9	1.42E-05	61	**6.37E-03**
City Parcel	Utility Poles	8.2	0.2	0	0.053	3.26	7.9	1.42E-05	61	**5.54E-06**
South Coast Oil Corporation	Cut	9.1	244.4	367	0.053	3.26	7.9	1.42E-05	61	**6.10E-03**

Annual

Phase	Subphase	Phase / Subphase No.	Annual CY	Annual (tons)	Equation Parameters k (PM2.5)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/year)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	2,250	3,375	0.053	3.26	7.9	1.42E-05	61	**5.61E-02**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	4,368	6,552	0.053	3.26	7.9	1.42E-05	61	**1.09E-01**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	191,090	286,635	0.053	3.26	7.9	1.42E-05	61	**4.77E+00**
City Parcel	Cut and Backfill	8.1	5,689	8,534	0.053	3.26	7.9	1.42E-05	61	**1.42E-01**
City Parcel	Utility Poles	8.2	8	12	0.053	3.26	7.9	1.42E-05	61	**2.00E-04**
South Coast Oil Corporation	Cut	9.1	9,400	14,100	0.053	3.26	7.9	1.42E-05	61	**2.34E-01**

Daily

Phase	Subphase	Phase / Subphase No.	Daily CY	Daily (tons)	Equation Parameters k (PM2.5)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/day)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	300	450	0.053	3.26	7.9	1.42E-05	61	**7.48E-03**
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	208	312	0.053	3.26	7.9	1.42E-05	61	**5.19E-03**
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	1,800	2,700	0.053	3.26	7.9	1.42E-05	61	**4.49E-02**
City Parcel	Cut and Backfill	8.1	2,300	3,450	0.053	3.26	7.9	1.42E-05	61	**5.74E-02**
City Parcel	Utility Poles	8.2	2	3	0.053	3.26	7.9	1.42E-05	61	**4.99E-05**
South Coast Oil Corporation	Cut	9.1	2,000	3,000	0.053	3.26	7.9	1.42E-05	61	**4.99E-02**

ASCON HRA - Emissions Inventory

Soil Excavation and Handling - Fugitive Dust Calculations

Emission Factor Equation

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

Where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

Source: AP-42 13.2.4-3, Equation (1)

Assumptions

Equation Parameters	Value	Units	Notes
k (dimensionless) - PM10	0.35	0	AP-42, Chapter 13.2.4, Page 4. Nov 2006
k (dimensionless) - PM2.5	0.053	0	AP-42, Chapter 13.2.4, Page 4. Nov 2006
U (mean wind speed)	3.26	mph	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Assumptions			
Silt Content	8.5	%	Western Governors' Association, Western Regional Air Partnership (WRAP) Fugitive I 0.44-19
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Soil Density	3000	lbs/CY	http://www.calrecycle.ca.gov/SWFAcilities/CDI/Tools/Calculations.htm. Wet Soil
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html
Times Soil is Handled	3	times	Assumes 3x handling. Excavation to truck, stockpile, stockpile to on-road truck.

Phases with Excavation Activities

Phase	Subphase	Phase / Subphase No.	Duration (days)	Average Daily (CY)	Max Daily (CY)	Max Hourly (CY)	Total (CY)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	101	22	500	55.6	2,250
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	98	1,500	2,000	222.2	147,000
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	74	1,500	2,000	222.2	111,000
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	130	1,500	2,000	222.2	195,000
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	124	1,500	2,000	222.2	186,000
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	258	1,500	2,000	222.2	387,000
South Coast Oil Corporation	Cut	7.1	8	2,000	2,200	222.2	16,000

Emissions Calculation (PM10)

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly CY	Hourly (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/hr)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	56	83	0.35	3.26	7.9	9.39E-05	61	**9.15E-03**
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**
South Coast Oil Corporation	Cut	7.1	222	333	0.35	3.26	7.9	9.39E-05	61	**3.66E-02**

Annual

Phase	Subphase	Phase / Subphase No.	Annual CY	Annual (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/year)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	2,250	3,375	0.35	3.26	7.9	9.39E-05	61	**3.71E-01**
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	147,000	220,500	0.35	3.26	7.9	9.39E-05	61	**2.42E+01**
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	111,000	166,500	0.35	3.26	7.9	9.39E-05	61	**1.83E+01**
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	195,000	292,500	0.35	3.26	7.9	9.39E-05	61	**3.21E+01**
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	186,000	279,000	0.35	3.26	7.9	9.39E-05	61	**3.06E+01**
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	387,000	580,500	0.35	3.26	7.9	9.39E-05	61	**6.38E+01**
South Coast Oil Corporation	Cut	7.1	16,000	24,000	0.35	3.26	7.9	9.39E-05	61	**2.64E+00**

Daily

Phase	Subphase	Phase / Subphase No.	Daily CY	Daily (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM10 Emissions (lbs/day)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	22	33	0.35	3.26	7.9	9.39E-05	61	**3.67E-03**
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	1,500	2,250	0.35	3.26	7.9	9.39E-05	61	**2.47E-01**
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	1,500	2,250	0.35	3.26	7.9	9.39E-05	61	**2.47E-01**
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	1,500	2,250	0.35	3.26	7.9	9.39E-05	61	**2.47E-01**
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	1,500	2,250	0.35	3.26	7.9	9.39E-05	61	**2.47E-01**
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	1,500	2,250	0.35	3.26	7.9	9.39E-05	61	**2.47E-01**
South Coast Oil Corporation	Cut	7.1	2,000	3,000	0.35	3.26	7.9	9.39E-05	61	**3.29E-01**

Notes:
1) USEPA AP-42, Fifth Edition, Volume 1 Chapter 13: Miscellaneous Sources, Equation 13.2.4 (November 2006)
2) USEPA AP-42 Equation 13.2.4-3, Aerodynamic Particle Size Multiplier for k
3) Project Navigator on-site soil sampling data

Emissions Calculation (PM2.5)

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly CY	Hourly (tons)	Equation Parameters k (PM2.5)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/hr)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	56	83	0.053	3.26	7.9	1.42E-05	61	1.39E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03
South Coast Oil Corporation	Cut	7.1	222	333	0.053	3.26	7.9	1.42E-05	61	5.54E-03

Annual

Phase	Subphase	Phase / Subphase No.	Annual CY	Annual (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/year)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	2,250	3,375	0.053	3.26	7.9	1.42E-05	61	5.61E-02
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	147,000	220,500	0.053	3.26	7.9	1.42E-05	61	3.67E+00
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	111,000	166,500	0.053	3.26	7.9	1.42E-05	61	2.77E+00
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	195,000	292,500	0.053	3.26	7.9	1.42E-05	61	4.86E+00
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	186,000	279,000	0.053	3.26	7.9	1.42E-05	61	4.64E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	387,000	580,500	0.053	3.26	7.9	1.42E-05	61	9.65E+00
South Coast Oil Corporation	Cut	7.1	16,000	24,000	0.053	3.26	7.9	1.42E-05	61	3.99E-01

Daily

Phase	Subphase	Phase / Subphase No.	Daily CY	Daily (tons)	Equation Parameters k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	PM2.5 Emissions (lbs/day)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	22	33	0.053	3.26	7.9	1.42E-05	61	5.56E-04
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	1,500	2,250	0.053	3.26	7.9	1.42E-05	61	3.74E-02
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	1,500	2,250	0.053	3.26	7.9	1.42E-05	61	3.74E-02
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	1,500	2,250	0.053	3.26	7.9	1.42E-05	61	3.74E-02
Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	1,500	2,250	0.053	3.26	7.9	1.42E-05	61	3.74E-02
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	1,500	2,250	0.053	3.26	7.9	1.42E-05	61	3.74E-02
South Coast Oil Corporation	Cut	7.1	2,000	3,000	0.053	3.26	7.9	1.42E-05	61	4.99E-02

Crystalline Silica Emissions Calculations (Concrete Mixing)

Annual

Phase	Subphase	Phase / Subphase No.	PM10 Emissions - Uncontrolled (lbs/year)	Silica Content (%)	Silica Emissions (lbs/year)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	9.50E-01	28%	2.66E-01
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and	3.1	6.21E+01	28%	1.74E+01
North Parcel	Transport and dispose of Lagoons 3, 4 and	4a.3	4.69E+01	28%	1.31E+01
East Parcel	Excavate to EL 0.00 (performed concurrent	4b.3	8.24E+01	28%	2.31E+01

Table 27 - [Alternative 6] Soil Excavation and Handling Fugitive Dust

Central Parcel	Excavate to EL 0.00 (performed concurrent	4c.3	**7.86E+01**	28%	**2.20E+01**
South and West Parcel	Excavate to EL 0.00 (performed concurrent	4d.3	**1.63E+02**	28%	**4.58E+01**
South Coast Oil Corporation	Cut	7.1	**6.76E+00**	28%	**1.89E+00**

ASCON HRA - Emissions Inventory

Grubbing and Grading Emissions

Emission Factor Equation

Grading

$$EF\ (lbs/vmt) = F \times 0.051\ (S)^{2.0}$$

Bulldozing (Overburden)

$$EF\ (lbs/hr) = F \times 1.0\ (s)^{1.5} / (M)^{1.4}$$

Where:

F = scaling factor (PM10 or PM2.5)
S = mean vehicle speed (mph)
s = surface material silt content (%)
M = surface material moisture content (%)

Source: AP-42 11.9-5. Table 11.9.1 (English Units). October 1998.

Assumptions

Equation Parameters	Value	Units	Notes
F (scaling factor) - Grading, PM10	0.6	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Bulldozing, PM10	0.75	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Grading, PM2.5	0.031	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
F (scaling factor) - Bulldozing, PM2.5	0.105	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
S (mean vehicle speed)	7.1	mph	AP-42 Chapter 11.9-9, Table 11.9-3. Default grader speed.
s (silt content)	6.9	%	AP-42, Chapter 11.9, Table 11.9-3. Bulldozer Overburden Silt Content.
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html
Total Grubbing/Grading Area	914,760	ft2	21 Acres. Provided by Project Navigator.
Pit F Grubbing/Grading Area	13,225	ft2	Approximate Measurement. 115 ft x 115 ft.
Grading Equipment Blade Width	12	ft	Caterpillar 140M Grader Blade Width. CalEEMod default value. http://xml.catmms.com/servlet/ImageServlet?imageId=C617805
Grader Passes Required	2	passes	Assumed. Number of times grader will pass over an area for grubbing/grading.
Max Grading Area Per Day	2	acres	Provided by Project Navigator. Rough grading.

Phases with Grubbing Activities

Phase No.	Phase	Subphase No.	Subphase	Phase / Subphase No.	Duration of Task (days)	Total Grubbing Area (ft^2)	Average Daily Grubbing Area (ft^2)	Average Hourly Grubbing Area (ft^2)	Hours of Operation per Day	
2	Pit F	1	Clear and grub, prepare haul roads, lay-down areas, initial	2.1	30	13,225	441	49	9	Occurs during Pit F,
3	Cut/Fill to Top of Waste	2	Cut/Fill to top of waste	3.2	116	914,760	7,886	876	9	

Emissions Calculations (PM10)

Hourly

Subphase	Phase / Subphase No.	Days	Average Hourly Grubbing Area (ft^2)	Max Hourly Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/hr)	Bulldozing Emissions (lbs/hr)	Total Grubbing Emissions (lbs/hr)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	49	0.00	0.6	7.1	1.5	0.75	6.9	7.9	0.75	61	0.000	0.29	**0.29**
Cut/Fill to top of waste	3.2	116	876	0.01	0.6	7.1	1.5	0.75	6.9	7.9	0.75	61	0.01	0.29	**0.30**

Annual

Subphase	Phase / Subphase No.	Days	Total Grubbing Area (ft^2)	Annual Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/year)	Bulldozing Emissions (lbs/year)	Total Grubbing Emissions (lbs/year)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	13,225	0.42	0.6	7.1	1.5	0.75	6.9	7.9	0.75	61	0.25	79.27	**79.52**
Cut/Fill to top of waste	3.2	116	914,760	28.88	0.6	7.1	1.5	0.75	6.9	7.9	0.75	61	17.37	306.49	**323.87**

Daily

Subphase	Phase / Subphase No.	Days	Max Daily Grubbing Area (ft^2)	Max Daily Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/day)	Bulldozing Emissions (lbs/day)	Total Grubbing Emissions (lbs/day)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	13,225	0.21	0.6	7.1	1.54	0.75	6.9	7.9	0.75	61	0.13	2.64	**2.77**
Cut/Fill to top of waste	3.2	116	87,120	1.38	0.6	7.1	1.54	0.75	6.9	7.9	0.75	61	0.83	2.64	**3.47**

Emissions Calculations (PM2.5)

Hourly

Subphase	Phase / Subphase No.	Days	Average Hourly Grubbing Area (ft2)	Max Hourly Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/hr)	Bulldozing Emissions (lbs/hr)	Total Grubbing Emissions (lbs/hr)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	49	0.00	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	0.000	0.16	**0.16**
Cut/Fill to top of waste	3.2	116	876	0.01	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	0.00	0.16	**0.16**

Annual

Subphase	Phase / Subphase No.	Days	Total Grubbing Area (ft2)	Annual Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/year)	Bulldozing Emissions (lbs/year)	Total Grubbing Emissions (lbs/year)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	13,225	0.42	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	0.03	43.57	**43.60**
Cut/Fill to top of waste	3.2	116	914,760	28.88	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	1.88	168.47	**170.35**

Daily

Subphase	Phase / Subphase No.	Days	Max Daily Grubbing Area (ft2)	Max Daily Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/day)	Bulldozing Emissions (lbs/day)	Total Grubbing Emissions (lbs/day)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	13,225	0.21	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	0.01	1.45	**1.47**
Cut/Fill to top of waste	3.2	116	87,120	1.38	0.031	7.1	0.2	0.105	6.9	7.9	0.41	61	0.09	1.45	**1.54**

ASCON HRA - Emissions Inventory

Grubbing and Grading Emissions

Emission Factor Equation

Grading

PM10 EF (lbs/vmt) = F x 0.051 $(S)^{2.0}$ PM2.5 EF (lbs/vmt) = F x 0.04 $(S)^{2.5}$

Bulldozing (Overburden)

PM10 EF (lbs/hr) = F x 1.0 $(s)^{1.5}$ / $(M)^{1.4}$ PM2.5 EF (lbs/hr) = F x 5.7 $(s)^{1.2}$ / $(M)^{1.3}$

Where:

F = scaling factor (PM10 or PM2.5)
S = mean vehicle speed (mph)
s = surface material silt content (%)
M = surface material moisture content (%)

Source: AP-42 11.9-5. Table 11.9.1 (English Units). October 1998.

Assumptions

Equation Parameters	Value	Units	Notes
F (scaling factor) - Grading, PM10	0.6	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Bulldozing, PM10	0.75	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM10 scaling factor.
F (scaling factor) - Grading, PM2.5	0.031	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
F (scaling factor) - Bulldozing, PM2.5	0.105	-	AP-42 Chapter 11.9-5, Table 11.9-1. PM2.5 scaling factor.
S (mean vehicle speed)	7.1	mph	AP-42 Chapter 11.9-9, Table 11.9-3. Default grader speed.
s (silt content)	6.4	%	Western Governors' Association, Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, Table 6-2. Average silt content for gravel/crushed limestone road surface material.
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html
Total Grubbing/Grading Area	914,760	ft2	21 Acres. Provided by Project Navigator.
Pit F Grubbing/Grading Area	13,225	ft2	Approximate Measurement. 115 ft x 115 ft.
Grading Equipment Blade Width	12	ft	Caterpillar 140M Grader Blade Width. CalEEMod default value. http://xml.catmms.com/servlet/ImageServlet?imageId=C617805
Grader Passes Required	2	passes	Assumed. Number of times grader will pass over an area for grubbing/grading.
Max Grading Area Per Day	2	acres	Provided by Project Navigator. Rough grading.

Phases with Grubbing Activities

Phase No.	Phase	Subphase No.	Subphase	Phase / Subphase No.	Duration of Task (days)	Total Grubbing Area (ft^2)	Average Daily Grubbing Area (ft^2)	Average Hourly Grubbing Area (ft^2)	Hours of Operation per Day
2	Pit F	1	Clear and grub, prepare haul roads, initial grade	2.1	22	914,760	41,580	4,620	9	Occurs during Pit F, but applies to the entire site
4a	North Parcel	1	Clear, grub, and dispose of existing vegetation	4a.1	7	228,690	32,670	3,630	9	
4b	East Parcel	1	Clear, grub, and dispose of existing vegetation	4b.1	5	228,690	45,738	5,082	9	
4c	Central Parcel	1	Clear, grub, and dispose of existing vegetation	4c.1	7	228,690	32,670	3,630	9	
4d	South and West Parcel	1	Clear, grub, and dispose of existing vegetation	4d.1	10	228,690	22,869	2,541	9	

Emissions Calculations (PM10)

Hourly

Subphase	Phase / Subphase No.	Days	Average Hourly Grubbing Area (ft^2)	Max Hourly Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/hr)	Bulldozing Emissions (lbs/hr)	Total Grubbing Emissions (lbs/hr)
Clear and grub, prepare haul roads, initial grade	2.1	22	4,620	0.07	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	0.044	0.26	**0.31**
Clear, grub, and dispose of existing vegetation	4a.1	7	3,630	0.06	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	0.03	0.26	**0.30**
Clear, grub, and dispose of existing vegetation	4b.1	5	5,082	0.08	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	0.05	0.26	**0.31**
Clear, grub, and dispose of existing vegetation	4c.1	7	3,630	0.06	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	0.03	0.26	**0.30**
Clear, grub, and dispose of existing vegetation	4d.1	10	2,541	0.04	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	0.02	0.26	**0.29**

Annual

Subphase	Phase / Subphase No.	Days	Total Grubbing Area (ft^2)	Annual Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/year)	Bulldozing Emissions (lbs/year)	Total Grubbing Emissions (lbs/year)
Clear and grub, prepare haul roads, initial grade	2.1	22	914,760	28.88	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	17.37	51.93	**69.30**
Clear, grub, and dispose of existing vegetation	4a.1	7	228,690	7.22	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	4.34	16.52	**20.86**
Clear, grub, and dispose of existing vegetation	4b.1	5	228,690	7.22	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	4.34	11.80	**16.14**
Clear, grub, and dispose of existing vegetation	4c.1	7	228,690	7.22	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	4.34	16.52	**20.86**
Clear, grub, and dispose of existing vegetation	4d.1	10	228,690	7.22	0.6	7.1	1.5	0.75	6.4	7.9	0.67	61	4.34	23.60	**27.95**

Daily

Subphase	Phase / Subphase No.	Days	Max Daily Grubbing Area (ft^2)	Max Daily Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/day)	Bulldozing Emissions (lbs/day)	Total Grubbing Emissions (lbs/day)
Clear and grub, prepare haul roads, initial grade	2.1	22	13,225	0.21	0.6	7.1	1.54	0.75	6.4	7.9	0.67	61	0.13	2.36	**2.49**
Clear, grub, and dispose of existing vegetation	4a.1	7	87,120	1.38	0.6	7.1	1.54	0.75	6.4	7.9	0.67	61	0.83	2.36	**3.19**
Clear, grub, and dispose of existing vegetation	4b.1	5	87,120	1.38	0.6	7.1	1.54	0.75	6.4	7.9	0.67	61	0.83	2.36	**3.19**
Clear, grub, and dispose of existing vegetation	4c.1	7	87,120	1.38	0.6	7.1	1.54	0.75	6.4	7.9	0.67	61	0.83	2.36	**3.19**
Clear, grub, and dispose of existing vegetation	4d.1	10	87,120	1.38	0.6	7.1	1.54	0.75	6.4	7.9	0.67	61	0.83	2.36	**3.19**

Emissions Calculations (PM2.5)

Hourly

Subphase	Phase / Subphase No.	Days	Average Hourly Grubbing Area (ft2)	Max Hourly Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/hr)	Bulldozing Emissions (lbs/hr)	Total Grubbing Emissions (lbs/hr)
Clear and grub, prepare haul roads, initial grade	2.1	22	4,620	0.07	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.005	0.15	**0.15**
Clear, grub, and dispose of existing vegetation	4a.1	7	3,630	0.06	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.00	0.15	**0.15**
Clear, grub, and dispose of existing vegetation	4b.1	5	5,082	0.08	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.01	0.15	**0.15**
Clear, grub, and dispose of existing vegetation	4c.1	7	3,630	0.06	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.00	0.15	**0.15**
Clear, grub, and dispose of existing vegetation	4d.1	10	2,541	0.04	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.00	0.15	**0.15**

Annual

Subphase	Phase / Subphase No.	Days	Total Grubbing Area (ft2)	Annual Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/year)	Bulldozing Emissions (lbs/year)	Total Grubbing Emissions (lbs/year)
Clear and grub, prepare haul roads, initial grade	2.1	22	914,760	28.88	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	1.88	29.19	**31.07**
Clear, grub, and dispose of existing vegetation	4a.1	7	228,690	7.22	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.47	9.29	**9.76**
Clear, grub, and dispose of existing vegetation	4b.1	5	228,690	7.22	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.47	6.64	**7.10**
Clear, grub, and dispose of existing vegetation	4c.1	7	228,690	7.22	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.47	9.29	**9.76**
Clear, grub, and dispose of existing vegetation	4d.1	10	228,690	7.22	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.47	13.27	**13.74**

Daily

Subphase	Phase / Subphase No.	Days	Max Daily Grubbing Area (ft2)	Max Daily Grader VMT (mi.)	F (scaling factor) - Grading PM10	S (mph)	Grading Emission Factor (lb/VMT)	F (scaling factor) - Bulldozing PM10	s (%)	M (%)	Bulldozing Emission Factor (lbs/hr)	Mitigation (%)	Grading Emissions (lbs/day)	Bulldozing Emissions (lbs/day)	Total Grubbing Emissions (lbs/day)
Clear and grub, prepare haul roads, initial grade	2.1	22	13,225	0.21	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.01	1.33	**1.34**
Clear, grub, and dispose of existing vegetation	4a.1	7	87,120	1.38	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.09	1.33	**1.42**
Clear, grub, and dispose of existing vegetation	4b.1	5	87,120	1.38	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.09	1.33	**1.42**
Clear, grub, and dispose of existing vegetation	4c.1	7	87,120	1.38	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.09	1.33	**1.42**
Clear, grub, and dispose of existing vegetation	4d.1	10	87,120	1.38	0.031	7.1	0.2	0.105	6.4	7.9	0.38	61	0.09	1.33	**1.42**

ASCON HRA - Emissions Inventory

Wind Erosion Emissions

Emission Factor Equation

$$EF\ (g/m^2\text{-}s) = 0.036 \times (1-V)(Um/Ut)^3 F(x) / (3600 \text{ seconds / hour})$$

Where
EF = Emission Factor
V = fraction of vegetative cover
U_m = mean wind speed (m/s)
U_t = Equivalent threshold value of wind speed at 7 m/s (default = 11.32)
F(x) = Function dependent on U_m/U_t derived from Cowherd et. al (1985) (unitless); default = 0.194 (USEPA, 1996)
http://www.epa.gov/superfund/health/conmedia/soil/pdfs/ssg_appd-e.pdf

Unit Conversion Factors

1 acre = 4046.856 square meters

Assumptions

Equation Parameters	Value	Units	Notes
V (vegetative cover)	0	-	Default value. Assumes no vegetation on stockpiles.
U_m (wind speed)	1.46	m/s	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
U_t (equivalent threshold value of wind speed at 7 m/s)	11.32	m/s	Default value
F(x) (Cowherd function)	0.194	-	Default value
PM2.5/PM10 Ratio	21	(%)	SCAQMD PM2.5 LST Methodology: http://www.aqmd.gov/ceqa/handbook/lst/Method_final.pdf
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Exposure Duration (unstabilized)	1	hours	Maximum time after excavation where no soil stabilizing agent is applied or stockpile is covered
Exposure Duration (stabilized)	11	hours	Maximum time after soil is stabilized prior to removal to treatment cell , bin or off-site.
Mitigation	80	(%)	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.

Phases with Excavation Activities (Contaminated Soil)

Phase	Subphase	Phase / Subphase No.	Days	Unstabilized Stockpile Area (acres)	Stabilized Stockpile Area (acres)
Pit F	Clear and grub, prepare haul roads, lay-down areas, i	2.1	30	0.25	0.5
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	21	0	0
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.1	116	0.25	0.5

Emissions Calculations

Hourly

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Hourly Unstabilized Emissions (lbs)	PM10 Hourly Stabilized Emissions (lbs)	PM2.5 Hourly Unstabilized Emissions (lbs)	PM2.5 Hourly Stabilized Emissions (lbs)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Install slurry wall at lagoons 4 and 5	3.1	21	0.0	0	0.0	1.46	11	0.194	4.16E-09	80	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Cut/Fill to top of waste	3.1	116	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06

Annual

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Annual Unstabilized Emissions (lbs)	PM10 Annual Stabilized Emissions (lbs)	PM2.5 Annual Unstabilized Emissions (lbs)	PM2.5 Annual Stabilized Emissions (lbs)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	9.0E-03	3.6E-03	1.9E-03	7.6E-04
Install slurry wall at lagoons 4 and 5	3.1	21	0.0	0	0.0	1.46	11	0.194	4.16E-09	80	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Cut/Fill to top of waste	3.1	116	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.5E-02	1.4E-02	7.3E-03	2.9E-03

Daily

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Daily Unstabilized Emissions (lbs)	PM10 Daily Stabilized Emissions (lbs/hr)	PM2.5 Daily Unstabilized Emissions (lbs)	PM2.5 Daily Stabilized Emissions (lbs/hr)
Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	30	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Install slurry wall at lagoons 4 and 5	3.1	21	0.0	0	0.0	1.46	11	0.194	4.16E-09	80	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Cut/Fill to top of waste	3.1	116	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05

ASCON HRA - Emissions Inventory

Wind Erosion Emissions

Emission Factor Equation

$$EF\ (g/m^2\text{-}s) = 0.036 \times (1-V)(Um/Ut)^3 F(x) / (3600 \text{ seconds / hour})$$

Where
EF = Emission Factor
V = fraction of vegetative cover
U_m = mean wind speed (m/s)
U_t = Equivalent threshold value of wind speed at 7 m/s (default = 11.32)
F(x) = Function dependent on U_m/U_t derived from Cowherd et. al (1985) (unitless); default = 0.194 (USEPA, 1996)
http://www.epa.gov/superfund/health/conmedia/soil/pdfs/ssg_appd-e.pdf

Unit Conversion Factors

1 acre = 4046.856 square meters

Assumptions

Equation Parameters	Value	Units	Notes
V (vegetative cover)	0	-	Default value. Assumes no vegetation on stockpiles.
U_m (wind speed)	1.46	m/s	SCAQMD Costa Mesa Meteorological Monitoring Station (2005-2007), average wind speed from 7AM-6PM
U_t (equivalent threshold value of wind speed at 7 m/s)	11.32	m/s	Default value
F(x) (Cowherd function)	0.194	-	Default value
PM2.5/PM10 Ratio	21	(%)	SCAQMD PM2.5 LST Methodology: http://www.aqmd.gov/ceqa/handbook/lst/Method_final.pdf
Assumptions			
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Exposure Duration (unstabilized)	1	hours	Maximum time after excavation where no soil stabilizing agent is applied or stockpile is covered
Exposure Duration (stabilized)	11	hours	Maximum time after soil is stabilized prior to removal to treatment cell , bin or off-site.
Mitigation	80	(%)	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.

Phases with Excavation Activities (Contaminated Soil)

Phase	Subphase	Phase / Subphase No.	Days	Unstabilized Stockpile Area (acres)	Stabilized Stockpile Area (acres)
Pit F	Slurry Trench Excavation(waste in bins)	2.4	101	0.25	0.5
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (perform	3.1	98	0.25	0.5
North Parcel	Excavate to EL 0.00 (performed concurrently with Ta	4a.3	74	0.25	0.5
East Parcel	Excavate to EL 0.00 (performed concurrently with Ta	4b.3	130	0.25	0.5
Central Parcel	Excavate to EL 0.00 (performed concurrently with Ta	4c.3	124	0.25	0.5
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Ta	4d.3	258	0.25	0.5
South Coast Oil Corporation	Cut	7.1	8	0.25	0.5

Emissions Calculations

Hourly

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Hourly Unstabilized Emissions (lbs)	PM10 Hourly Stabilized Emissions (lbs)	PM2.5 Hourly Unstabilized Emissions (lbs)	PM2.5 Hourly Stabilized Emissions (lbs)
Slurry Trench Excavation(waste in bins)	2.4	101	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Remove lagoon material, lagoons 3, 4 and 5 (performed concurren	3.1	98	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06
Cut	7.1	8	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.3E-05	1.3E-05	7.0E-06	2.8E-06

Annual

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Annual Unstabilized Emissions (lbs)	PM10 Annual Stabilized Emissions (lbs)	PM2.5 Annual Unstabilized Emissions (lbs)	PM2.5 Annual Stabilized Emissions (lbs)
Slurry Trench Excavation(waste in bins)	2.4	101	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-02	1.2E-02	6.4E-03	2.6E-03
Remove lagoon material, lagoons 3, 4 and 5 (performed concurren	3.1	98	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	2.9E-02	1.2E-02	6.2E-03	2.5E-03
Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	2.2E-02	8.9E-03	4.7E-03	1.9E-03
Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.9E-02	1.6E-02	8.2E-03	3.3E-03
Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.7E-02	1.5E-02	7.8E-03	3.1E-03
Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	7.8E-02	3.1E-02	1.6E-02	6.5E-03
Cut	7.1	8	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	2.4E-03	9.6E-04	5.1E-04	2.0E-04

Daily

Subphase	Phase / Subphase No.	Days	Daily Unstabilized Stockpile Area (acres)	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Daily Unstabilized Emissions (lbs)	PM10 Daily Stabilized Emissions (lbs/hr)	PM2.5 Daily Unstabilized Emissions (lbs)	PM2.5 Daily Stabilized Emissions (lbs/hr)
Slurry Trench Excavation(waste in bins)	2.4	101	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Remove lagoon material, lagoons 3, 4 and 5 (performed concurren	3.1	98	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05
Cut	7.1	8	0.3	1	0.0	1.46	11	0.194	4.16E-09	80	3.0E-04	1.2E-04	6.3E-05	2.5E-05

ASCON HRA - Emissions Inventory

On-site Haul Roads - Diesel Exhaust

Emission Factor Equation

Emissions = E x VMT

Where:
E = size-specific emission factor (g/VMT)
VMT = Vehicle Miles Travelled

Source: EMFAC2011 (http://www.arb.ca.gov/emfac/)

Assumptions

Assumptions	Value	Units	Notes
Vehicle Class	T7 Single Construction	-	Assumed EMFAC Vehicle Class. http://www.arb.ca.gov/msei/vehicle-categories.xlsx
Vehicle Fleet Mix Model Year	1971-2016	-	EMFAC2011 default vehicle fleet mix - Orange County, Year 2015
Vehicle Fleet Mix Model Year (Mitigated)	2007-2016	-	2007 and newer trucks
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Northern Haul Route Length	470	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
Southern Haul Route Length	760	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
All Route Length	600	meters	Measured from center of Lagoons 1-2 to the northwest, northeast, and south Verify with PN
Idle Time per Vehicle	25	minutes	Provided by Project Navigator
Idle Time per Vehicle	0.42	hours	Minutes to Hour Conversion (60 minutes: 1 hour)
Northern Haul Route Length (Off-site)	900	meters	
Southern Haul Route Length (Off-site)	550	meters	
Offsite Haul Route Speed (mph)	25	mph	

EMFAC 2011 Emission Factors (T7 Single Construction - Orange County, Year 2015)

	DPM Emission Rate (g/mi)	
Vehicle Speed (mph) / Fleet Mix -->	**Model Year 1971-2016**	**Model Year 2007+**
5	0.68	0.05
10	0.47	0.05
15	0.31	0.04
20	0.19	0.04
25	0.16	0.04

Idling Emissions	DPM Emission Rate (g/hr)	
Fleet Mix	**Model Year 1971-2016**	**Model Year 2007+**
Idle Emissions	0.97	0.11

Source: EMFAC2011 (http://www.arb.ca.gov/emfac/) - Accessed December 2012. Please see EMFAC tabs.
PM10 exhaust emission factors derived fro EMFAC2011 were used to represent diesel particulate matter (DPM). The California Air Resources Board (CARB) has determined that all DPM is 10 microns or smaller (PM10).
http://www.arb.ca.gov/toxics/dieseltac/de-fnds.htm

Phases with Truck Activities

Phase	Subphase		Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Speed (MPH)	Fleet Mix Year	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Off-site Trucks																
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	30	2	5	1	60	10CY Dump	5	1971-2016	North	0.29	0.06	0.6	18
Pit F	Transport and Dispose of Impacted Material		2.5	16	16	16	2	256	Bin Trucks	5	1971-2016	North	0.29	0.52	4.7	75
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	21	21	25	3	441	Concrete Trucks	5	1971-2016	North	0.29	0.7	6.1	129
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	116	17	100	12	1,972	End Dumps	5	2007-2016	North	0.29	0.6	5.0	576
Fill to Final Grade		0	6.1	102	120	200	23	12,240	Bottom dumps	5	1971-2016	North	0.29	3.9	35.0	3,575
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	8	70	80	9	560	End Dumps	5	2007-2016	North	0.29	2.3	20.4	164

On-site Trucks	Subphase		Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Speed (MPH)		On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Mobilization	Maintain haul roads for duration of project		1.1	190	10	10	2	1,900	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	708
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	30	10	10	2	300	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	112
Pit F	Traffic Control and Temporary Fencing		2.2	5	10	10	2	50	3 ton stake-bed truck	5	1971-2016	All	0.37	0.4	3.7	19
Pit F	Slurry Trench Excavation(waste in bins)		2.4	8	1	2	1	8	Fuel Delivery Truck	5	1971-2016	All	0.37	0.0	0.4	3
Pit F	Slurry Trench Excavation(waste in bins)		2.4	8	5	10	2	40	Materials Delivery Truck	5	1971-2016	All	0.37	0.2	1.9	15
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	21	10	10	2	210	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	78
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	21	10	10	2	210	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	78
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	21	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37			
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	21	10	10	2	210	Concrete Dump Trucks	5	1971-2016	All	0.37	0.4	3.7	78
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	116	10	10	2	1,160	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	432
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	116	10	10	2	1,160	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	432
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	116	68	84	10	7,888	CAT 735 off-road dump truck	15	1971-2016	All	0.37			
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile		3.3	110	10	10	2	1,100	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	410
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		0	5.1	60	10	10	2	600	10 CY on-road dump truck	5	1971-2016	All	0.37	0.4	3.7	224
Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		0	5.1	60	10	10	2	600	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	224
Fill to Final Grade		0	6.1	102	10	10	2	1,020	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	380
Surface Water Controls	Cut and Backfill		7.1	22	10	10	2	220	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	82
Surface Water Controls	Install V-Ditches		7.2	20	10	10	2	200	10 CY on-road dump truck	5	1971-2016	All	0.37	0.4	3.7	75
Surface Water Controls	Install V-Ditches		7.2	20	10	10	2	200	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	75
City Parcel	Cut and Backfill		8.1	6	10	10	2	60	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	22
City Parcel	Cut and Backfill		8.1	6	10	10	2	60	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	22
City Parcel	Cut and Backfill		8.1	6	68	84	10	408	CAT 735 off-road dump truck	15	1971-2016	All	0.37			
City Parcel	Utility Poles		8.2	4	10	10	2	40	5 ton truck with auger	5	1971-2016	All	0.37	0.4	3.7	15
City Parcel	Utility Poles		8.2	4	10	10	2	40	10 CY on-road dump truck	5	1971-2016	All	0.37	0.4	3.7	15
South Coast Oil Corporation	Cut		9.1	6	10	10	2	60	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	22
South Coast Oil Corporation	Cut		9.1	6	68	84	10	408	CAT 735 off-road dump truck	15	1971-2016	All	0.37			
South Coast Oil Corporation	Cut		9.1	6	10	10	2	60	Water truck	5	1971-2016	All	0.37	0.4	3.7	22
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	8	10	10	2	80	Water truck	5	1971-2016	All	0.37	0.4	3.7	30

Emissions Calculation

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly VMT	Hourly Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/hr)	Idle Emissions (lbs/hr)	Off-site Emissions (North) (lbs/hr)	Off-site Emissions (South) (lbs/hr)
Off-site Trucks										
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	0.06	1.00	0.682	0.97	9.76E-05	8.92E-04	2.01E-04	1.23E-04
Pit F	Transport and Dispose of Impacted Material	2.5	0.52	2.00	0.682	0.97	7.80E-04	1.78E-03	4.01E-04	2.45E-04
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.68	3.00	0.682	0.97	1.02E-03	2.68E-03	6.02E-04	3.68E-04
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.55	12.00	0.054	0.11	6.51E-05	1.19E-03	5.71E-04	3.49E-04
Fill to Final Grade	0	6.1	3.89	23.00	0.682	0.97	5.85E-03	2.05E-02	4.62E-03	2.82E-03
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	2.27	9.00	0.054	0.11	2.68E-04	8.91E-04	4.28E-04	2.62E-04
On-site Trucks										
Mobilization	Maintain haul roads for duration of project	1.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Pit F	Traffic Control and Temporary Fencing	2.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.0	1	0.682	0.97	6.23E-05	8.92E-04		
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.2	2	0.682	0.97	3.11E-04	1.78E-03		
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.0	0	0.315	0.97	0.00E+00	0.00E+00		
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.2	0.0	10	0.315	0.97	0.00E+00	8.92E-03		
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	3.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Concrete Debris: Consolidate, Reduce and Place	0	5.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Concrete Debris: Consolidate, Reduce and Place	0	5.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Fill to Final Grade	0	6.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Surface Water Controls	Cut and Backfill	7.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Surface Water Controls	Install V-Ditches	7.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
Surface Water Controls	Install V-Ditches	7.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
City Parcel	Cut and Backfill	8.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
City Parcel	Cut and Backfill	8.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
City Parcel	Cut and Backfill	8.1	0.0	10	0.315	0.97	0.00E+00	8.92E-03		
City Parcel	Utility Poles	8.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
City Parcel	Utility Poles	8.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
South Coast Oil Corporation	Cut	9.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
South Coast Oil Corporation	Cut	9.1	0.0	10	0.315	0.97	0.00E+00	8.92E-03		
South Coast Oil Corporation	Cut	9.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03		
South Coast Oil Corporation	Backfill to Top of Final Grade	9.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03		

Annual

Phase	Subphase		Phase / Subphase No.	Annual VMT	Annual Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/yr)	Idle Emissions (lbs/yr)	Off-site Emissions (North) (lbs/yr)	Off-site Emissions (South) (lbs/yr)	
Off-site Trucks												
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	18	60	0.682	0.971	2.63E-02	5.35E-02	1.20E-02	7.36E-03	
Pit F	Transport and Dispose of Impacted Material		2.5	75	256	0.682	0.971	1.12E-01	2.28E-01	5.14E-02	3.14E-02	
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	129	441	0.682	0.971	1.94E-01	3.93E-01	8.85E-02	5.41E-02	
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	576	1972	0.054	0.108	6.80E-02	1.95E-01	9.38E-02	5.73E-02	
Fill to Final Grade		0	6.1	3575	12240	0.682	0.971	5.37E+00	1.09E+01	2.46E+00	1.50E+00	
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	164	560	0.054	0.108	1.93E-02	5.54E-02	2.66E-02	1.63E-02	
On-site Trucks												
Mobilization	Maintain haul roads for duration of project		1.1	708	1900	0.682	0.971	1.06E+00	1.69E+00			
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	112	300	0.682	0.971	1.68E-01	2.68E-01			
Pit F	Traffic Control and Temporary Fencing		2.2	19	50	0.682	0.971	2.80E-02	4.46E-02			
Pit F	Slurry Trench Excavation(waste in bins)		2.4	3	8	0.682	0.971	4.48E-03	7.14E-03			
Pit F	Slurry Trench Excavation(waste in bins)		2.4	15	40	0.682	0.971	2.24E-02	3.57E-02			1.76E+01
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	78	210	0.682	0.971	1.18E-01	1.87E-01			2.17E+01
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	78	210	0.682	0.971	1.18E-01	1.87E-01			3.93E+01
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	0	0	0.315	0.971	0.00E+00	0.00E+00			
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	78	210	0.682	0.971	1.18E-01	1.87E-01			
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	432	1160	0.682	0.971	6.50E-01	1.03E+00			
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	432	1160	0.682	0.971	6.50E-01	1.03E+00			
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	0	7888	0.315	0.971	0.00E+00	7.04E+00			
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile		3.3	410	1100	0.682	0.971	6.16E-01	9.81E-01			
Concrete Debris: Consolidate, Reduce and Place		0	5.1	224	600	0.682	0.971	3.36E-01	5.35E-01			
Concrete Debris: Consolidate, Reduce and Place		0	5.1	224	600	0.682	0.971	3.36E-01	5.35E-01			
Fill to Final Grade		0	6.1	380	1020	0.682	0.971	5.72E-01	9.10E-01			
Surface Water Controls	Cut and Backfill		7.1	82	220	0.682	0.971	1.23E-01	1.96E-01			
Surface Water Controls	Install V-Ditches		7.2	75	200	0.682	0.971	1.12E-01	1.78E-01			
Surface Water Controls	Install V-Ditches		7.2	75	200	0.682	0.971	1.12E-01	1.78E-01			
City Parcel	Cut and Backfill		8.1	22	60	0.682	0.971	3.36E-02	5.35E-02			
City Parcel	Cut and Backfill		8.1	22	60	0.682	0.971	3.36E-02	5.35E-02			
City Parcel	Cut and Backfill		8.1	0	408	0.315	0.971	0.00E+00	3.64E-01			
City Parcel	Utility Poles		8.2	15	40	0.682	0.971	2.24E-02	3.57E-02			
City Parcel	Utility Poles		8.2	15	40	0.682	0.971	2.24E-02	3.57E-02			
South Coast Oil Corporation	Cut		9.1	22	60	0.682	0.971	3.36E-02	5.35E-02			
South Coast Oil Corporation	Cut		9.1	0	408	0.315	0.971	0.00E+00	3.64E-01			
South Coast Oil Corporation	Cut		9.1	22	60	0.682	0.971	3.36E-02	5.35E-02			
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	30	80	0.682	0.971	4.48E-02	7.14E-02			

Daily

Phase	Subphase		Phase / Subphase No.	Daily VMT	Daily Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/hr)	Idle Emissions (lbs/hr)	Off-site Emissions (North) (lbs/hr)	Off-site Emissions (South) (lbs/hr)
Off-site Trucks											
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	1	5	0.682	0.971	8.78E-04	4.46E-03	1.00E-03	6.13E-04
Pit F	Transport and Dispose of Impacted Material		2.5	5	16	0.682	0.971	7.02E-03	1.43E-02	3.21E-03	1.96E-03
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	6	25	0.682	0.971	9.22E-03	2.23E-02	5.02E-03	3.07E-03
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	5	100	0.054	0.108	5.86E-04	9.90E-03	4.75E-03	2.91E-03
Fill to Final Grade		0	6.1	35	200	0.682	0.971	5.27E-02	1.78E-01	4.01E-02	2.45E-02
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	20	80	0.054	0.108	2.41E-03	7.92E-03	3.80E-03	2.32E-03

On-site Trucks

Phase	Subphase		Phase / Subphase No.	Daily VMT	Daily Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/hr)	Idle Emissions (lbs/hr)
Mobilization	Maintain haul roads for duration of project		1.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade		2.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Traffic Control and Temporary Fencing		2.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Slurry Trench Excavation(waste in bins)		2.4	0	2	0.682	0.971	5.60E-04	1.78E-03
Pit F	Slurry Trench Excavation(waste in bins)		2.4	2	10	0.682	0.971	2.80E-03	8.92E-03
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	0	0	0.315	0.971	0.00E+00	0.00E+00
Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.2	0	84	0.315	0.971	0.00E+00	7.49E-02
Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile		3.3	4	10	0.682	0.971	5.60E-03	8.92E-03
Concrete Debris: Consolidate, Reduce and Place		0	5.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Concrete Debris: Consolidate, Reduce and Place		0	5.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Fill to Final Grade		0	6.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Surface Water Controls	Cut and Backfill		7.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Surface Water Controls	Install V-Ditches		7.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Surface Water Controls	Install V-Ditches		7.2	4	10	0.682	0.971	5.60E-03	8.92E-03
City Parcel	Cut and Backfill		8.1	4	10	0.682	0.971	5.60E-03	8.92E-03
City Parcel	Cut and Backfill		8.1	4	10	0.682	0.971	5.60E-03	8.92E-03
City Parcel	Cut and Backfill		8.1	0	84	0.315	0.971	0.00E+00	7.49E-02
City Parcel	Utility Poles		8.2	4	10	0.682	0.971	5.60E-03	8.92E-03
City Parcel	Utility Poles		8.2	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Cut		9.1	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Cut		9.1	0	84	0.315	0.971	0.00E+00	7.49E-02
South Coast Oil Corporation	Cut		9.1	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Backfill to Top of Final Grade		9.2	4	10	0.682	0.971	5.60E-03	8.92E-03

ASCON HRA - Emissions Inventory

On-site Haul Roads - Diesel Exhaust

Emission Factor Equation

Emissions = E x VMT

Where:
E = size-specific emission factor (g/VMT)
VMT = Vehicle Miles Travelled

Source: EMFAC2011 (http://www.arb.ca.gov/emfac/)

Assumptions

Assumptions	Value	Units	Notes
Vehicle Class	T7 Single Construction	-	Assumed EMFAC Vehicle Class. http://www.arb.ca.gov/msei/vehicle-categories.xlsx
Vehicle Fleet Mix Model Year	1971-2016	-	EMFAC2011 default vehicle fleet mix - Orange County, Year 2015
Vehicle Fleet Mix Model Year (Mitigated)	2007-2016	-	2007 and newer trucks
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Northern Haul Route Length	470	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
Southern Haul Route Length	760	meters	Measured in dispersion modeling. USGS Aerial Photo. One way distance + 50 meters for manuvering
All Route Length	600	meters	Measured from Lagoon 1-2 to northwest corner, northeast corner and southw Verify with PN
Idle Time per Vehicle	25	minutes	Total idle time. 5 minutes at entrance, 5 minutes during loading, 5 minutes wheel wash/exit
Idle Time per Vehicle	0.416666667	hours	Minutes to Hour Conversion (60 minutes: 1 hour)
Northern Haul Route Length (Off-site)	900		
Southern Haul Route Length (Off-site)	550		
Offsite Haul Route Speed (mph)	25		

EMFAC 2011 Emission Factors (T7 Single Construction - Orange County, Year 2015)

	DPM Emission Rate (g/mi)	
Vehicle Speed (mph) / Fleet Mix -->	**Model Year 1971-2016**	**Model Year 2007+**
5	0.68	0.05
10	0.47	0.05
15	0.31	0.04
20	0.19	0.04
25	0.16	0.04

Idling Emissions	DPM Emission Rate (g/hr)	
Fleet Mix	**Model Year 1971-2016**	**Model Year 2007+**
Idle Emissions	0.97	0.11

Source: EMFAC2011 (http://www.arb.ca.gov/emfac/) - Accessed December 2012. Please see EMFAC tabs.
PM10 exhaust emission factors derived fro EMFAC2011 were used to represent diesel particulate matter (DPM). The California Air Resources Board (CARB) has determined that all DPM is 10 microns or smaller (PM10).
http://www.arb.ca.gov/toxics/dieseltac/de-fnds.htm

Phases with Truck Activities

Phase	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Speed (MPH)	Fleet Mix Year	On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Off-site Trucks															
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	22	6	8	1	132	10CY Dump	5	1971-2016	North	0.29	0.19	1.8	39
Pit F	Transport and Dispose of Impacted Material	2.5	100	3	80	9	300	Bin Trucks	5	1971-2016	North	0.29	0.10	0.9	88
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	114	90	100	12	10,260	End Dumps	5	1971-2016	North	0.29	2.9	26.3	2,996
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	7	6	8	1	42	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	12
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	15	6	8	1	90	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	26
North Parcel	Transport and dispose of excavated material	4a.4	75	90	100	12	6,750	End dumps	5	1971-2016	North	0.29	2.9	26.3	1,971
North Parcel	Backfill with rock	4a.5	45	20	25	3	900	End Dumps	5	1971-2016	North	0.29	0.6	5.8	263
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	45	20	30	4	900	End Dumps	5	1971-2016	North	0.29	0.6	5.8	263
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	5	6	8	1	30	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	9
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	10	6	8	1	60	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	18
East Parcel	Transport and dispose of excavated material	4b.4	141	90	100	12	12,690	End Dumps	5	1971-2016	North	0.29	2.9	26.3	3,706
East Parcel	Backfill with rock	4b.5	27	20	25	3	540	End Dumps	5	1971-2016	North	0.29	0.6	5.8	158
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	27	20	30	4	540	End Dumps	5	1971-2016	North	0.29	0.6	5.8	158
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	7	6	8	1	42	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	12
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	15	6	8	1	90	10CY Dump	5	1971-2016	North	0.29	0.2	1.8	26
Central Parcel	Transport and dispose of excavated material	4c.4	125	90	100	12	11,250	End Dumps	5	1971-2016	North	0.29	2.9	26.3	3,286
Central Parcel	Backfill with rock	4c.5	48	20	25	3	960	End Dumps	5	1971-2016	North	0.29	0.6	5.8	280
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	48	20	30	4	960	End Dumps	5	1971-2016	North	0.29	0.6	5.8	280
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	10	6	8	1	60	10CY Dump	5	1971-2016	South	0.47	0.3	2.8	28
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	15	6	8	1	90	10CY Dump	5	1971-2016	South	0.47	0.3	2.8	43
South and West Parcel	Transport and dispose of excavated material	4d.4	262	90	100	12	23,580	End Dumps	5	1971-2016	South	0.47	4.7	42.5	11,135
South and West Parcel	Backfill with rock	4d.5	72	20	25	3	1,440	End Dumps	5	1971-2016	South	0.47	1.0	9.4	680
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	72	20	30	4	1,440	End Dumps	5	1971-2016	South	0.47	1.0	9.4	680
Final Grade	Backfill to final grade	5.1	233	115	200	23	26,795	Bottom dumps	5	2007-2016	All	0.37	4.8	42.9	9,990
Final Grade	Install haul road	5.2	10	10	15	2	100	End Dumps	5	1971-2016	All	0.37	0.4	3.7	37
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	9	90	100	12	810	End Dumps	5	1971-2016	South	0.47	4.7	42.5	383
South Coast Oil Corporation	Backfill with rock	7.3	7	20	25	3	140	End Dumps	5	1971-2016	South	0.47	1.0	9.4	66
South Coast Oil Corporation	Backfill to grade	7.4	1	70	80	9	70	End Dumps	5	1971-2016	South	0.47	3.7	33.1	33
Site Restoration	Site Restoration	8.1	5	3	5	1	15	Flat Bed	5	1971-2016	All	0.37	0.1	1.1	6

Table 33 - [Alternative 6] On-site Haul Road Diesel Exhaust

On-site Trucks	Subphase	Phase / Subphase No.	Duration of Task (days)	Avg Daily (Trips)	Max Daily (Trips)	Hourly (Trips)	Annual (Trips)	Truck Type	Average Speed (MPH)		On-site Haul Route Path	Haul Route Length (mi)	Hourly VMT	Daily VMT	Annual VMT
Mobilization	Maintain haul roads for duration of project	1.1	739	10	10	2	7,390	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	2,755
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	22	10	10	2	220	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	82
Pit F	Traffic Control and Temporary Fencing	2.2	5	10	10	2	50	3 ton stake-bed truck	5	1971-2016	All	0.37	0.4	3.7	19
Pit F	Slurry Trench Excavation(waste in bins)	2.4	15	10	10	2	150	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	56
Pit F	Slurry Trench Excavation(waste in bins)	2.4	101	10	10	2	1,010	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	377
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	10	10	2	980	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	10	10	2	980	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	10	10	2	980	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	365
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	10	10	2	980	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	365
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	15	10	10	2	150	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	56
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	276
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	74	10	10	2	740	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	276
North Parcel	Backfill with rock	4a.5	45	10	10	2	450	Water truck	5	1971-2016	All	0.37	0.4	3.7	168
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	45	10	10	2	450	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	168
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	10	10	10	2	100	Water truck	5	1971-2016	All	0.37	0.4	3.7	37
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	485
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	130	10	10	2	1,300	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	485
East Parcel	Backfill with rock	4b.5	27	10	10	2	270	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	101
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	27	10	10	2	270	Water truck	5	1971-2016	All	0.37	0.4	3.7	101
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	15	10	10	2	150	Water Truck	5	1971-2016	All	0.37	0.4	3.7	56
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	462
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	124	10	10	2	1,240	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	462
Central Parcel	Backfill with rock	4c.5	48	10	10	2	480	Water truck	5	1971-2016	All	0.37	0.4	3.7	179
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	48	10	10	2	480	Water truck	5	1971-2016	All	0.37	0.4	3.7	179
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	15	10	10	2	150	Water Truck	5	1971-2016	All	0.37	0.4	3.7	56
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Water Truck 4000 Gal	5	1971-2016	All	0.37	0.4	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Fuel Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	962
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	258	10	10	2	2,580	Materials Delivery Truck	5	1971-2016	All	0.37	0.4	3.7	962
South and West Parcel	Backfill with rock	4d.5	72	10	10	2	720	Water truck	5	1971-2016	All	0.37	0.4	3.7	268
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	72	10	10	2	720	Water truck	5	1971-2016	All	0.37	0.4	3.7	268
Final Grade	Backfill to final grade	5.1	233	10	10	2	2,330	Water truck	5	1971-2016	All	0.37	0.4	3.7	869
Final Grade	Backfill to final grade	5.1	233	10	10	2	2,330	Water truck	5	1971-2016	All	0.37	0.4	3.7	869
Final Grade	Install haul road	5.2	10	10	10	2	100	Water truck	5	1971-2016	All	0.37	0.4	3.7	37
Final Grade	Install haul road	5.2	10	10	10	2	100	Water truck	5	1971-2016	All	0.37	0.4	3.7	37
Fill to Final Grade	Install detention basins	6.1	22	10	10	2	220	Water truck	5	1971-2016	All	0.37	0.4	3.7	82
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	20	10	10	2	200	10 CY on-road dump truck	5	1971-2016	All	0.37	0.4	3.7	75
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	20	10	10	2	200	Water truck	5	1971-2016	All	0.37	0.4	3.7	75
South Coast Oil Corporation	Cut	7.1	8	10	10	2	80	3 ton stake-bed truck for ODEX and foam	5	1971-2016	All	0.37	0.4	3.7	30
South Coast Oil Corporation	Cut	7.1	8	0	0	0	0	CAT 735 off-road dump truck	15	1971-2016	All	0.37	0.0	0.0	0
South Coast Oil Corporation	Cut	7.1	8	10	10	2	80	Water truck	5	1971-2016	All	0.37	0.4	3.7	30
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	9	10	10	2	90	Water truck	5	1971-2016	All	0.37	0.4	3.7	34
South Coast Oil Corporation	Backfill with rock	7.3	7	10	10	2	70	Water truck	5	1971-2016	All	0.37	0.4	3.7	26
South Coast Oil Corporation	Backfill to grade	7.4	1	10	10	2	10	Water truck	5	1971-2016	All	0.37	0.4	3.7	4

Emissions Calculation

Hourly

Phase	Subphase	Phase / Subphase No.	Hourly VMT	Hourly Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/hr)	Idle Emissions (lbs/hr)	Off-site Emissions (North) (lbs/hr)	Off-site Emissions (South) (lbs/hr)
Off-site Trucks										
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
Pit F	Transport and Dispose of Impacted Material	2.5	0.10	9.00	0.682	0.97	1.46E-04	8.03E-03	1.81E-03	1.10E-03
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	2.92	12.00	0.682	0.97	4.39E-03	1.07E-02	2.41E-03	1.47E-03
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
North Parcel	Transport and dispose of excavated material	4a.4	2.92	12.00	0.682	0.97	4.39E-03	1.07E-02	2.41E-03	1.47E-03
North Parcel	Backfill with rock	4a.5	0.65	3.00	0.682	0.97	9.76E-04	2.68E-03	6.02E-04	3.68E-04
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	0.65	4.00	0.682	0.97	9.76E-04	3.57E-03	8.03E-04	4.91E-04
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
East Parcel	Transport and dispose of excavated material	4b.4	2.92	12.00	0.682	0.97	4.39E-03	1.07E-02	2.41E-03	1.47E-03
East Parcel	Backfill with rock	4b.5	0.65	3.00	0.682	0.97	9.76E-04	2.68E-03	6.02E-04	3.68E-04
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	0.65	4.00	0.682	0.97	9.76E-04	3.57E-03	8.03E-04	4.91E-04
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	0.19	1.00	0.682	0.97	2.93E-04	8.92E-04	2.01E-04	1.23E-04
Central Parcel	Transport and dispose of excavated material	4c.4	2.92	12.00	0.682	0.97	4.39E-03	1.07E-02	2.41E-03	1.47E-03
Central Parcel	Backfill with rock	4c.5	0.65	3.00	0.682	0.97	9.76E-04	2.68E-03	6.02E-04	3.68E-04
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	0.65	4.00	0.682	0.97	9.76E-04	3.57E-03	8.03E-04	4.91E-04
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	0.31	1.00	0.682	0.97	4.73E-04	8.92E-04	2.01E-04	1.23E-04
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	0.31	1.00	0.682	0.97	4.73E-04	8.92E-04	2.01E-04	1.23E-04
South and West Parcel	Transport and dispose of excavated material	4d.4	4.72	12.00	0.682	0.97	7.10E-03	1.07E-02	2.41E-03	1.47E-03
South and West Parcel	Backfill with rock	4d.5	1.05	3.00	0.682	0.97	1.58E-03	2.68E-03	6.02E-04	3.68E-04
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	1.05	4.00	0.682	0.97	1.58E-03	3.57E-03	8.03E-04	4.91E-04
Final Grade	Backfill to final grade	5.1	4.76	23.00	0.054	0.11	5.63E-04	2.28E-03	1.09E-03	6.68E-04
Final Grade	Install haul road	5.2	0.41	2.00	0.682	0.97	6.23E-04	1.78E-03	4.01E-04	2.45E-04
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	4.72	12.00	0.682	0.97	7.10E-03	1.07E-02	2.41E-03	1.47E-03
South Coast Oil Corporation	Backfill with rock	7.3	1.05	3.00	0.682	0.97	1.58E-03	2.68E-03	6.02E-04	3.68E-04
South Coast Oil Corporation	Backfill to grade	7.4	3.67	9.00	0.682	0.97	5.52E-03	8.03E-03	1.81E-03	1.10E-03
Site Restoration	Site Restoration	8.1	0.12	1.00	0.682	0.97	1.87E-04	8.92E-04	2.01E-04	1.23E-04

Hourly

On-site Trucks

Mobilization	Maintain haul roads for duration of project	1.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Pit F	Traffic Control and Temporary Fencing	2.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Pit F	Slurry Trench Excavation(waste in bins)	2.4	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0.0	0	0.315	0.97	0.00E+00	0.00E+00
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.0	0	0.315	0.97	0.00E+00	0.00E+00
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Backfill with rock	4a.5	0.4	2	0.682	0.97	6.23E-04	1.78E-03
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.0	0	0.315	0.97	0.00E+00	0.00E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Backfill with rock	4b.5	0.4	2	0.682	0.97	6.23E-04	1.78E-03
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.0	0	0.315	0.97	0.00E+00	0.00E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Backfill with rock	4c.5	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.0	0	0.315	0.97	0.00E+00	0.00E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Backfill with rock	4d.5	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Final Grade	Backfill to final grade	5.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Final Grade	Backfill to final grade	5.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Final Grade	Install haul road	5.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Final Grade	Install haul road	5.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Fill to Final Grade	Install detention basins	6.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South Coast Oil Corporation	Cut	7.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South Coast Oil Corporation	Cut	7.1	0.0	0	0.315	0.97	0.00E+00	0.00E+00
South Coast Oil Corporation	Cut	7.1	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South Coast Oil Corporation	Backfill with rock	7.3	0.4	2	0.682	0.97	6.23E-04	1.78E-03
South Coast Oil Corporation	Backfill to grade	7.4	0.4	2	0.682	0.97	6.23E-04	1.78E-03

Annual

Phase	Subphase	Phase / Subphase No.	Annual VMT	Annual Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/yr)	Idle Emissions (lbs/yr)	Off-site Emissions (North) (lbs/yr)	Off-site Emissions (South) (lbs/yr)
Off-site Trucks										
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	39	132	0.682	0.971	5.79E-02	1.18E-01	2.65E-02	1.62E-02
Pit F	Transport and Dispose of Impacted Material	2.5	88	300	0.682	0.971	1.32E-01	2.68E-01	6.02E-02	3.68E-02
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	2996	10260	0.682	0.971	4.50E+00	9.15E+00	2.06E+00	1.26E+00
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	12	42	0.682	0.971	1.84E-02	3.75E-02	8.43E-03	5.15E-03
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	26	90	0.682	0.971	3.95E-02	8.03E-02	1.81E-02	1.10E-02
North Parcel	Transport and dispose of excavated material	4a.4	1971	6750	0.682	0.971	2.96E+00	6.02E+00	1.35E+00	8.28E-01
North Parcel	Backfill with rock	4a.5	263	900	0.682	0.971	3.95E-01	8.03E-01	1.81E-01	1.10E-01
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	263	900	0.682	0.971	3.95E-01	8.03E-01	1.81E-01	1.10E-01
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	9	30	0.682	0.971	1.32E-02	2.68E-02	6.02E-03	3.68E-03
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	18	60	0.682	0.971	2.63E-02	5.35E-02	1.20E-02	7.36E-03
East Parcel	Transport and dispose of excavated material	4b.4	3706	12690	0.682	0.971	5.57E+00	1.13E+01	2.55E+00	1.56E+00
East Parcel	Backfill with rock	4b.5	158	540	0.682	0.971	2.37E-01	4.82E-01	1.08E-01	6.62E-02
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	158	540	0.682	0.971	2.37E-01	4.82E-01	1.08E-01	6.62E-02
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	12	42	0.682	0.971	1.84E-02	3.75E-02	8.43E-03	5.15E-03
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	26	90	0.682	0.971	3.95E-02	8.03E-02	1.81E-02	1.10E-02
Central Parcel	Transport and dispose of excavated material	4c.4	3286	11250	0.682	0.971	4.94E+00	1.00E+01	2.26E+00	1.38E+00
Central Parcel	Backfill with rock	4c.5	280	960	0.682	0.971	4.21E-01	8.56E-01	1.93E-01	1.18E-01
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	280	960	0.682	0.971	4.21E-01	8.56E-01	1.93E-01	1.18E-01
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	28	60	0.682	0.971	4.26E-02	5.35E-02	1.20E-02	7.36E-03
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	43	90	0.682	0.971	6.39E-02	8.03E-02	1.81E-02	1.10E-02
South and West Parcel	Transport and dispose of excavated material	4d.4	11135	23580	0.682	0.971	1.67E+01	2.10E+01	4.73E+00	2.89E+00
South and West Parcel	Backfill with rock	4d.5	680	1440	0.682	0.971	1.02E+00	1.28E+00	2.89E-01	1.77E-01
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	680	1440	0.682	0.971	1.02E+00	1.28E+00	2.89E-01	1.77E-01
Final Grade	Backfill to final grade	5.1	9990	26795	0.054	0.108	1.18E+00	2.65E+00	1.27E+00	7.79E-01
Final Grade	Install haul road	5.2	37	100	0.682	0.971	5.60E-02	8.92E-02	2.01E-02	1.23E-02
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	383	810	0.682	0.971	5.75E-01	7.23E-01	1.63E-01	9.93E-02
South Coast Oil Corporation	Backfill with rock	7.3	66	140	0.682	0.971	9.94E-02	1.25E-01	2.81E-02	1.72E-02
South Coast Oil Corporation	Backfill to grade	7.4	33	70	0.682	0.971	4.97E-02	6.24E-02	1.40E-02	8.59E-03
Site Restoration	Site Restoration	8.1	6	15	0.682	0.971	8.41E-03	1.34E-02	3.01E-03	1.84E-03

Annual

On-site Trucks

Mobilization	Maintain haul roads for duration of project	1.1	2755	7390	0.682	0.971	4.14E+00	6.59E+00
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	82	220	0.682	0.971	1.23E-01	1.96E-01
Pit F	Traffic Control and Temporary Fencing	2.2	19	50	0.682	0.971	2.80E-02	4.46E-02
Pit F	Slurry Trench Excavation(waste in bins)	2.4	56	150	0.682	0.971	8.41E-02	1.34E-01
Pit F	Slurry Trench Excavation(waste in bins)	2.4	377	1010	0.682	0.971	5.66E-01	9.01E-01
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	365	980	0.682	0.971	5.49E-01	8.74E-01
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	365	980	0.682	0.971	5.49E-01	8.74E-01
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0	0	0.315	0.971	0.00E+00	0.00E+00
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	365	980	0.682	0.971	5.49E-01	8.74E-01
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	365	980	0.682	0.971	5.49E-01	8.74E-01
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	56	150	0.682	0.971	8.41E-02	1.34E-01
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	740	0.682	0.971	4.15E-01	6.60E-01
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	740	0.682	0.971	4.15E-01	6.60E-01
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0	0	0.315	0.971	0.00E+00	0.00E+00
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	740	0.682	0.971	4.15E-01	6.60E-01
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	276	740	0.682	0.971	4.15E-01	6.60E-01
North Parcel	Backfill with rock	4a.5	168	450	0.682	0.971	2.52E-01	4.01E-01
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	168	450	0.682	0.971	2.52E-01	4.01E-01
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	37	100	0.682	0.971	5.60E-02	8.92E-02
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	1300	0.682	0.971	7.29E-01	1.16E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	1300	0.682	0.971	7.29E-01	1.16E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0	0	0.315	0.971	0.00E+00	0.00E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	1300	0.682	0.971	7.29E-01	1.16E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	485	1300	0.682	0.971	7.29E-01	1.16E+00
East Parcel	Backfill with rock	4b.5	101	270	0.682	0.971	1.51E-01	2.41E-01
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	101	270	0.682	0.971	1.51E-01	2.41E-01
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	56	150	0.682	0.971	8.41E-02	1.34E-01
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	1240	0.682	0.971	6.95E-01	1.11E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	1240	0.682	0.971	6.95E-01	1.11E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0	0	0.315	0.971	0.00E+00	0.00E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	1240	0.682	0.971	6.95E-01	1.11E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	462	1240	0.682	0.971	6.95E-01	1.11E+00
Central Parcel	Backfill with rock	4c.5	179	480	0.682	0.971	2.69E-01	4.28E-01
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	179	480	0.682	0.971	2.69E-01	4.28E-01
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	56	150	0.682	0.971	8.41E-02	1.34E-01
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	2580	0.682	0.971	1.45E+00	2.30E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	2580	0.682	0.971	1.45E+00	2.30E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0	0	0.315	0.971	0.00E+00	0.00E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	2580	0.682	0.971	1.45E+00	2.30E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	962	2580	0.682	0.971	1.45E+00	2.30E+00
South and West Parcel	Backfill with rock	4d.5	268	720	0.682	0.971	4.03E-01	6.42E-01
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	268	720	0.682	0.971	4.03E-01	6.42E-01
Final Grade	Backfill to final grade	5.1	869	2330	0.682	0.971	1.31E+00	2.08E+00
Final Grade	Backfill to final grade	5.1	869	2330	0.682	0.971	1.31E+00	2.08E+00
Final Grade	Install haul road	5.2	37	100	0.682	0.971	5.60E-02	8.92E-02
Final Grade	Install haul road	5.2	37	100	0.682	0.971	5.60E-02	8.92E-02
Fill to Final Grade	Install detention basins	6.1	82	220	0.682	0.971	1.23E-01	1.96E-01
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	75	200	0.682	0.971	1.12E-01	1.78E-01
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	75	200	0.682	0.971	1.12E-01	1.78E-01
South Coast Oil Corporation	Cut	7.1	30	80	0.682	0.971	4.48E-02	7.14E-02
South Coast Oil Corporation	Cut	7.1	0	0	0.315	0.971	0.00E+00	0.00E+00
South Coast Oil Corporation	Cut	7.1	30	80	0.682	0.971	4.48E-02	7.14E-02
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	34	90	0.682	0.971	5.04E-02	8.03E-02
South Coast Oil Corporation	Backfill with rock	7.3	26	70	0.682	0.971	3.92E-02	6.24E-02
South Coast Oil Corporation	Backfill to grade	7.4	4	10	0.682	0.971	5.60E-03	8.92E-03

Daily

Phase	Subphase	Phase / Subphase No.	Daily VMT	Daily Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/day)	Idle Emissions (lbs/day)	Off-site Emissions (North) (lbs/day)	Off-site Emissions (South) (lbs/day)
Off-site Trucks										
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
Pit F	Transport and Dispose of Impacted Material	2.5	1	80	0.682	0.971	1.32E-03	7.14E-02	1.61E-02	9.81E-03
Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	3.2	26	100	0.682	0.971	3.95E-02	8.92E-02	2.01E-02	1.23E-02
North Parcel	Clear, grub, and dispose of existing vegetation	4a.1	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
North Parcel	Transport and dispose of excavated material	4a.4	26	100	0.682	0.971	3.95E-02	8.92E-02	2.01E-02	1.23E-02
North Parcel	Backfill with rock	4a.5	6	25	0.682	0.971	8.78E-03	2.23E-02	5.02E-03	3.07E-03
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	6	30	0.682	0.971	8.78E-03	2.68E-02	6.02E-03	3.68E-03
East Parcel	Clear, grub, and dispose of existing vegetation	4b.1	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
East Parcel	Transport and dispose of excavated material	4b.4	26	100	0.682	0.971	3.95E-02	8.92E-02	2.01E-02	1.23E-02
East Parcel	Backfill with rock	4b.5	6	25	0.682	0.971	8.78E-03	2.23E-02	5.02E-03	3.07E-03
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	6	30	0.682	0.971	8.78E-03	2.68E-02	6.02E-03	3.68E-03
Central Parcel	Clear, grub, and dispose of existing vegetation	4c.1	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	2	8	0.682	0.971	2.63E-03	7.14E-03	1.61E-03	9.81E-04
Central Parcel	Transport and dispose of excavated material	4c.4	26	100	0.682	0.971	3.95E-02	8.92E-02	2.01E-02	1.23E-02
Central Parcel	Backfill with rock	4c.5	6	25	0.682	0.971	8.78E-03	2.23E-02	5.02E-03	3.07E-03
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	6	30	0.682	0.971	8.78E-03	2.68E-02	6.02E-03	3.68E-03
South and West Parcel	Clear, grub, and dispose of existing vegetation	4d.1	3	8	0.682	0.971	4.26E-03	7.14E-03	1.61E-03	9.81E-04
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	3	8	0.682	0.971	4.26E-03	7.14E-03	1.61E-03	9.81E-04
South and West Parcel	Transport and dispose of excavated material	4d.4	43	100	0.682	0.971	6.39E-02	8.92E-02	2.01E-02	1.23E-02
South and West Parcel	Backfill with rock	4d.5	9	25	0.682	0.971	1.42E-02	2.23E-02	5.02E-03	3.07E-03
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	9	30	0.682	0.971	1.42E-02	2.68E-02	6.02E-03	3.68E-03
Final Grade	Backfill to final grade	5.1	43	200	0.054	0.108	5.06E-03	1.98E-02	9.51E-03	5.81E-03
Final Grade	Install haul road	5.2	4	15	0.682	0.971	5.60E-03	1.34E-02	3.01E-03	1.84E-03
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	43	100	0.682	0.971	6.39E-02	8.92E-02	2.01E-02	1.23E-02
South Coast Oil Corporation	Backfill with rock	7.3	9	25	0.682	0.971	1.42E-02	2.23E-02	5.02E-03	3.07E-03
South Coast Oil Corporation	Backfill to grade	7.4	33	80	0.682	0.971	4.97E-02	7.14E-02	1.61E-02	9.81E-03
Site Restoration	Site Restoration	8.1	1	5	0.682	0.971	1.68E-03	4.46E-03	1.00E-03	6.13E-04

Daily

On-site Trucks

Phase	Subphase	Phase / Subphase No.	Daily VMT	Daily Trips	Running EF (g/mi)	Idle EF (g/hr)	Running Emissions (lbs/hr)	Idle Emissions (lbs/day)
Mobilization	Maintain haul roads for duration of project	1.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Clear and grub, prepare haul roads, initial grade	2.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Traffic Control and Temporary Fencing	2.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Slurry Trench Excavation(waste in bins)	2.4	4	10	0.682	0.971	5.60E-03	8.92E-03
Pit F	Slurry Trench Excavation(waste in bins)	2.4	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0	0	0.315	0.971	0.00E+00	0.00E+00
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	0	0	0.315	0.971	0.00E+00	0.00E+00
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4a.3	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Backfill with rock	4a.5	4	10	0.682	0.971	5.60E-03	8.92E-03
North Parcel	Backfill with soil (performed concurrently with Task 5)	4a.6	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	0	0	0.315	0.971	0.00E+00	0.00E+00
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4b.3	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Backfill with rock	4b.5	4	10	0.682	0.971	5.60E-03	8.92E-03
East Parcel	Backfill with soil (performed concurrently with Task 5)	4b.6	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	0	0	0.315	0.971	0.00E+00	0.00E+00
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4c.3	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Backfill with rock	4c.5	4	10	0.682	0.971	5.60E-03	8.92E-03
Central Parcel	Backfill with soil (performed concurrently with Task 5)	4c.6	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	0	0	0.315	0.971	0.00E+00	0.00E+00
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	4d.3	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Backfill with rock	4d.5	4	10	0.682	0.971	5.60E-03	8.92E-03
South and West Parcel	Backfill with soil (performed concurrently with Task 5)	4d.6	4	10	0.682	0.971	5.60E-03	8.92E-03
Final Grade	Backfill to final grade	5.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Final Grade	Backfill to final grade	5.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Final Grade	Install haul road	5.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Final Grade	Install haul road	5.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Fill to Final Grade	Install detention basins	6.1	4	10	0.682	0.971	5.60E-03	8.92E-03
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	4	10	0.682	0.971	5.60E-03	8.92E-03
Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	6.2	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Cut	7.1	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Cut	7.1	0	0	0.315	0.971	0.00E+00	0.00E+00
South Coast Oil Corporation	Cut	7.1	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Transport and dispose of excavated material	7.2	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Backfill with rock	7.3	4	10	0.682	0.971	5.60E-03	8.92E-03
South Coast Oil Corporation	Backfill to grade	7.4	4	10	0.682	0.971	5.60E-03	8.92E-03

ASCON HRA - Emissions Inventory

On-site Equipment Emissions

1 mile = 1 609.344 meter

Emission Factor Equation

Emissions (Offroad Construction Equipment) = E x bhp-hr
Where:
E = size-specific emission factor (g/bhp-hr)

Source: EMFAC2011

Assumptions

Assumptions	Value	Units	Notes
Equipment Engine Tier	3	-	Refers to EPA emission standards (Tier 1-4) for Offroad equipment
Diesel Particulate Filter Reduction	0	%	CARB Level 3 certifieid diesel particulate filter (DPF)
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Hours per Day (Worst case)	11	hours	Hours of Operation 7AM-6PM
Haul Route Length	600	meters	Measured from center of Lagoons 1-2 to the northwest, northeast, and southwest corners. Average distance.

OFF-ROAD ENGINE EMISSION RATES

SCAQMD TABLE II-B
TIERS 1, 2, 3 & 4 OFF-ROAD ENGINE
EMISSION STANDARDS

Engine		Tier 1 (g/bhp-hr)			Tier 2 (g/bhp-hr)			Tier 3 (g/bhp-hr)			Tier 4 (g/bhp-hr)			
Size (hp)	Max hp	NOx	ROG	PM	NOx	ROG	PM	NOx	ROG	PM	NOx (interim[1])	NOx (final[2])	ROG	PM
75 - 99	99	6.9			5.32	0.28	0.3	3.325	0.175	0.3	2.5	0.3	0.14	0.015
100 - 174	174	6.9			4.655	0.245	0.22	2.85	0.15	0.22	2.5	0.3	0.14	0.015
175 - 299	299	6.9	1	0.4	4.655	0.245	0.15	2.85	0.15	0.15	1.5	0.3	0.14	0.015
300 - 600	600	6.9	1	0.4	4.56	0.24	0.15	2.85	0.15	0.15	1.5	0.3	0.14	0.015

[1] Interim Limit Ends on 12-31-2014
[2] Final Limit Begins on 1-1-2015

USEPA TABLE I - EPA Tier 1-3 Nonroad Diesel Engine Emission Standards (g/bhp-hr)

Engine Power		Tier	CO
(25 ≤ hp < 50)	50	1	4.9
(25 ≤ hp < 50)	50	2	4.9
(50 ≤ hp < 100)	100	1	-
(50 ≤ hp < 100)	100	2	3.7
(50 ≤ hp < 100)	100	3	3.7
(100 ≤ hp < 175)	175	1	-
(100 ≤ hp < 175)	175	2	3.7
(100 ≤ hp < 175)	175	3	3.7
(175 ≤ hp < 300)	300	1	8.5
(175 ≤ hp < 300)	300	2	2.6
(175 ≤ hp < 300)	300	3	2.6
(300 ≤ hp < 600)	600	1	8.5
(300 ≤ hp < 600)	600	2	2.6
(300 ≤ hp < 600)	600	3	2.6

Tiers 1, 2,3 &4 Off-Road Engine Emission Standards

HP Range	Tier	Nox	ROG	PM
75 - 99	1	6.9	1.19	0.552
100 - 174	1	6.9	0.82	0.304
175 - 299	1	6.9	1	0.4
300 - 600	1	6.9	1	0.4
75 - 99	2	5.32	0.28	0.3
100 - 174	2	4.655	0.245	0.22
175 - 299	2	4.655	0.245	0.15
300 - 600	2	4.56	0.24	0.15
75 - 99	3	3.325	0.175	0.3
100 - 174	3	2.85	0.15	0.22
175 - 299	3	2.85	0.15	0.15
300 - 600	3	2.85	0.15	0.15
75 - 99	4	2.5	0.14	0.015
100 - 174	4	2.5	0.14	0.015
175 - 299	4	1.5	0.14	0.015
300 - 600	4	1.5	0.14	0.015

Note: Based on SCAQMD Table II-B Tiers 1, 2,3 &4 Off-Road Engine Emission Standards

Equipment List by Phase

									Emission Factors (g/bhp-hr)							
Phase	Equipment	hp/size	CalEEMod Category	Load Factor	Output (bhp)	Engine Size Class	Engine Size Class (CO)	Engine Tier	ROG	CO	Nox	CO2[1]	PM10	PM2.5	SOx
1.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
1.1	CAT 140 Grader	183	Graders	0.61	111.63	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
2.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
2.1	CAT 434 Backhoe	149	Tractors/Loaders/Backhoes	0.55	81.95	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
2.1	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
2.2	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
2.3	40 ton crane model JLG400S	48	Cranes	0.43	20.64	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325	568.3	0.300	0.300	1.005
2.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
2.4	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
2.4	CAT 434 Backhoe w/forks	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
2.4	CAT XQ400 Portable Generator, Engine Model C15	563	Generator Sets	0.74	416.62	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
2.4	CAT 311 Excavator	118	Excavators	0.57	67.26	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
2.4	DV15I 1000 gpm pump; slurry operation	94	Pumps	0.74	69.56	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
3.1	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.1	CAT 345 L Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.1	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
3.1	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325	568.3	0.300	0.300	0.005
3.1	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325	568.3	0.300	0.300	0.005
3.1	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(25 ≤ hp < 50)	3	0.15	0.0	2.85	568.3	0.150	0.150	0.005
3.2	CAT 345 L excavator	380	Excavators	0.57	216.6	300 - 600	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.2	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.2	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(300 ≤ hp < 600)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
3.2	Rusmar foam applicator	0		0	0	75 - 99	(300 ≤ hp < 600)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
3.2	ODEX applicator	0		0	0	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
3.2	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
3.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(25 ≤ hp < 50)	3	0.15	0.0	2.85	568.3	0.220	0.220	0.005
3.2	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(25 ≤ hp < 50)	3	0.15	0.0	2.85	568.3	0.150	0.150	0.005
3.3	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
3.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(175 ≤ hp < 300)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
3.3	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
4.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(50 ≤ hp < 100)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
4.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(175 ≤ hp < 300)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
5.1	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
6.1	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(50 ≤ hp < 100)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
6.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.220	0.220	0.005
7.1	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
7.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
7.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
8.1	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
8.1	Rusmar foam applicator	0		0	0	75 - 99	(175 ≤ hp < 300)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
8.1	ODEX applicator	0		0	0	75 - 99	(175 ≤ hp < 300)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
8.1	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
8.2	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325	568.3	0.300	0.300	0.005
9.1	CAT 345 L excavator	380	Excavators	0.57	216.6	300 - 600	(25 ≤ hp < 50)	3	0.15	0.0	2.85	568.3	0.150	0.150	0.005
9.1	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(50 ≤ hp < 100)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
9.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(300 ≤ hp < 600)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
9.1	Rusmar foam applicator	0		0	0	75 - 99	(300 ≤ hp < 600)	3	0.175	2.6	3.325	568.3	0.300	0.300	0.005
9.1	ODEX applicator	0		0	0	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005
9.1	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005
9.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(25 ≤ hp < 50)	3	0.15	0.0	2.85	568.3	0.220	0.220	0.005
9.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.220	0.220	0.005
9.2	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(100 ≤ hp < 175)	3	0.15	3.7	2.85	568.3	0.150	0.150	0.005
10.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(100 ≤ hp < 175)	3	0.175	3.7	3.325	568.3	0.300	0.300	0.005

NOTES:
[1] Emission factor for CO2 obtained from Table 3.4, OFFROAD Equipment Emission Factors, *CalEEMod Appendix D - Default Data Tables*.

Emissions Calculation by Equipment (Hourly, Yearly, Daily)

				Emission Factors (g/bhp-hr)							Hourly Emissions (lb)							Annual Emissions (lb)										Daily Emissions (lb)									
																			Hours per										Max Hours per									
Phase	Equipment	Output (bhp)	Engine Tier	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	Phase Duration (days)	Day	bhp-hr	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	Day	bhp-hr	ROG	CO	Nox	CO2	PM10	PM2.5	SOx
1.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.02	0.44	0.39	66.85	0.04	0.04	0.00	190	9	480.15	35.2	744.2	668.8	114312.2	60.3	60.3	1.0	10	533.5	0.2	4.4	3.9	668.5	0.4	0.4	0.0
1.1	CAT 140 Grader	111.63	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.04	0.64	0.70	139.88	0.04	0.04	0.00	190	8	893.04	56.1	972.7	1066.2	212611.4	56.1	56.1	1.8	8	893.04	0.3	5.1	5.6	1119.0	0.3	0.3	0.0
2.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.72	0.56	110.89	0.04	0.04	0.00	30	9	796.5	7.9	194.9	150.2	29941.2	11.6	11.6	0.3	10	885	0.3	7.2	5.6	1108.9	0.4	0.4	0.0
2.1	CAT 434 Backhoe	81.95	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.67	0.51	102.69	0.04	0.04	0.00	30	9	737.55	7.3	180.5	139.0	27725.2	10.7	10.7	0.2	10	819.5	0.3	6.7	5.1	1026.9	0.4	0.4	0.0
2.1	CAT 980 Loader	241.45	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.08	1.38	1.52	302.54	0.08	0.08	0.00	30	9	2173.05	21.6	373.7	409.7	81687.0	21.6	21.6	0.7	10	2414.5	0.8	13.8	15.2	3025.4	0.8	0.8	0.0
2.2	CAT 980 Loader	241.45	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.08	1.38	1.52	302.54	0.08	0.08	0.00	5	9	2173.05	3.6	62.3	68.3	13614.5	3.6	3.6	0.1	10	2414.5	0.8	13.8	15.2	3025.4	0.8	0.8	0.0
2.3	40 ton crane model JLG400S	20.64	3	0.175	0.0	3.325	568.3	0.3	0.3	1.005	0.01	0.00	0.15	25.86	0.01	0.01	0.05	15	8	165.12	1.0	0.0	18.2	3103.5	1.6	1.6	5.5	8	165.12	0.1	0.0	1.2	206.9	0.1	0.1	0.4
2.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.02	0.44	0.39	66.85	0.04	0.04	0.00	15	9	480.15	2.8	58.8	52.8	9024.6	4.8	4.8	0.1	10	533.5	0.2	4.4	3.9	668.5	0.4	0.4	0.0
2.4	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.07	1.24	1.36	271.41	0.07	0.07	0.00	8	9	1949.4	5.2	89.4	98.0	19541.3	5.2	5.2	0.2	10	2166	0.7	12.4	13.6	2714.1	0.7	0.7	0.0
2.4	CAT 434 Backhoe w/forks	53.35	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.02	0.44	0.39	66.85	0.04	0.04	0.00	8	9	480.15	1.5	31.3	28.2	4813.1	2.5	2.5	0.0	10	533.5	0.2	4.4	3.9	668.5	0.4	0.4	0.0
2.4	CAT XQ400 Portable Generator, Engine Model C15	416.62	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.14	2.39	2.62	522.04	0.14	0.14	0.00	8	9	3749.58	9.9	172.0	188.5	37586.7	9.9	9.9	0.3	10	4166.2	1.4	23.9	26.2	5220.4	1.4	1.4	0.0
2.4	CAT 311 Excavator	67.26	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.02	0.55	0.42	84.28	0.03	0.03	0.00	8	9	605.34	1.6	39.5	30.4	6068.1	2.3	2.3	0.1	10	672.6	0.2	5.5	4.2	842.8	0.3	0.3	0.0
2.4	DV15I 1000 gpm pump; slurry operation	69.56	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.03	0.57	0.51	87.16	0.05	0.05	0.00	8	9	626.04	1.9	40.9	36.7	6275.6	3.3	3.3	0.1	10	695.6	0.3	5.7	5.1	871.6	0.5	0.5	0.0
3.1	CAT 330 excavator	124.26	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.04	0.71	0.78	155.70	0.04	0.04	0.00	21	9	1118.34	7.8	134.6	147.6	29427.6	7.8	7.8	0.3	10	1242.6	0.4	7.1	7.8	1557.0	0.4	0.4	0.0
3.1	CAT 345 L Excavator	216.6	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.07	1.24	1.36	271.41	0.07	0.07	0.00	21	9	1949.4	13.5	234.7	257.2	51295.9	13.5	13.5	0.4	10	2166	0.7	12.4	13.6	2714.1	0.7	0.7	0.0
3.1	CAT 980 Loader	241.45	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.08	1.38	1.52	302.54	0.08	0.08	0.00	21	9	2173.05	15.1	261.6	286.8	57180.9	15.1	15.1	0.5	10	2414.5	0.8	13.8	15.2	3025.4	0.8	0.8	0.0
3.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.02	0.44	0.39	66.85	0.04	0.04	0.00	21	9	480.15	3.9	82.3	73.9	12634.5	6.7	6.7	0.1	10	533.5	0.2	4.4	3.9	668.5	0.4	0.4	0.0
3.1	Rusmar foam applicator	0	3	0.175	0.0	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	ODEX applicator	0	3	0.175	0.0	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	CAT 330 excavator	124.26	3	0.15	0.0	2.85	568.3	0.15	0.15	0.005	0.04	0.00	0.78	155.70	0.04	0.04	0.00	116	9	1118.34	42.9	0.0	815.2	162552.6	42.9	42.9	1.4	10	1242.6	0.4	0.0	7.8	1557.0	0.4	0.4	0.0
3.2	CAT 345 L excavator	216.6	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.07	1.24	1.36	271.41	0.07	0.07	0.00	116	9	1949.4	74.8	1296.3	1421.0	283348.6	74.8	74.8	2.4	10	2166	0.7	12.4	13.6	2714.1	0.7	0.7	0.0
3.2	CAT 980 Loader	241.45	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.08	1.38	1.52	302.54	0.08	0.08	0.00	116	9	2173.05	83.4	1445.1	1584.0	315856.5	83.4	83.4	2.7	10	2414.5	0.8	13.8	15.2	3025.4	0.8	0.8	0.0
3.2	CAT 434 Backhoe	53.35	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.02	0.31	0.39	66.85	0.04	0.04	0.00	116	9	480.15	21.5	319.3	408.3	69790.6	36.8	36.8	0.6	10	533.5	0.2	3.1	3.9	668.5	0.4	0.4	0.0
3.2	Rusmar foam applicator	0	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	116	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	ODEX applicator	0	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	116	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	116	9	2231.55	85.6	1484.0	1626.6	324359.5	85.6	85.6	2.8	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
3.2	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	116	9	2231.55	85.6	1484.0	1626.6	324359.5	85.6	85.6	2.8	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
3.2	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	116	9	2231.55	85.6	1484.0	1626.6	324359.5	85.6	85.6	2.8	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
3.2	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	116	9	2231.55	85.6	1484.0	1626.6	324359.5	85.6	85.6	2.8	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
3.2	CAT D6 dozer	88.5	3	0.15	0.0	2.85	568.3	0.22	0.22	0.005	0.03	0.00	0.56	110.89	0.04	0.04	0.00	116	9	796.5	30.6	0.0	580.6	115772.6	44.8	44.8	1.0	10	885	0.3	0.0	5.6	1108.9	0.4	0.4	0.0
3.2	CAT 563 compactor	84.71	3	0.15	0.0	2.85	568.3	0.15	0.15	0.005	0.03	0.00	0.53	106.14	0.03	0.03	0.00	116	9	762.39	29.2	0.0	555.7	110814.7	29.2	29.2	0.9	10	847.1	0.3	0.0	5.3	1061.4	0.3	0.3	0.0
3.3	CAT D6 dozer	88.5	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.72	0.56	110.89	0.04	0.04	0.00	110	9	796.5	29.0	714.8	550.6	109784.4	42.5	42.5	0.9	10	885	0.3	7.2	5.6	1108.9	0.4	0.4	0.0
3.3	CAT 434 Backhoe	53.35	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.02	0.31	0.39	66.85	0.04	0.04	0.00	110	9	480.15	20.4	302.8	387.2	66180.7	34.9	34.9	0.6	10	533.5	0.2	3.1	3.9	668.5	0.4	0.4	0.0
3.3	CAT 563 compactor	84.71	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.03	0.69	0.53	106.14	0.03	0.03	0.00	110	9	762.39	27.7	684.2	527.0	105082.9	27.7	27.7	0.9	10	847.1	0.3	6.9	5.3	1061.4	0.3	0.3	0.0
4.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.72	0.56	110.89	0.04	0.04	0.00	136	9	796.5	35.8	883.7	680.7	135733.4	52.5	52.5	1.2	10	885	0.3	7.2	5.6	1108.9	0.4	0.4	0.0
4.1	CAT 434 Backhoe	53.35	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.02	0.31	0.39	66.85	0.04	0.04	0.00	136	9	480.15	25.2	374.3	478.7	81823.5	43.2	43.2	0.7	10	533.5	0.2	3.1	3.9	668.5	0.4	0.4	0.0
5.1	CAT 330 excavator	124.26	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.04	1.01	0.78	155.70	0.04	0.04	0.00	60	9	1118.34	22.2	547.4	421.7	84078.9	22.2	22.2	0.7	10	1242.6	0.4	10.1	7.8	1557.0	0.4	0.4	0.0
6.1	CAT 563 compactor	84.71	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.03	0.69	0.53	106.14	0.03	0.03	0.00	102	9	762.39	25.7	634.4	488.7	97440.5	25.7	25.7	0.8	10	847.1	0.3	6.9	5.3	1061.4	0.3	0.3	0.0
6.1	CAT D6 dozer	88.5	3	0.15	2.6	2.85	568.3	0.22	0.22	0.005	0.03	0.51	0.56	110.89	0.04	0.04	0.00	102	9	796.5	26.9	465.7	510.5	101800.1	39.4	39.4	0.9	10	885	0.3	5.1	5.6	1108.9	0.4	0.4	0.0
7.1	CAT 563 compactor	84.71	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.03	0.49	0.53	106.14	0.03	0.03	0.00	22	9	762.39	5.5	96.2	105.4	21016.6	5.5	5.5	0.2	10	847.1	0.3	4.9	5.3	1061.4	0.3	0.3	0.0
7.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.72	0.56	110.89	0.04	0.04	0.00	22	9	796.5	5.8	143.0	110.1	21956.9	8.5	8.5	0.2	10	885	0.3	7.2	5.6	1108.9	0.4	0.4	0.0
7.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	568.3	0.15	0.15	0.005	0.04	0.71	0.78	155.70	0.04	0.04	0.00	20	9	1118.34	7.4	128.2	140.6	28026.3	7.4	7.4	0.2	10	1242.6	0.4	7.1	7.8	1557.0	0.4	0.4	0.0
8.1	CAT 330 excavator	124.26	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.04	1.01	0.78	155.70	0.04	0.04	0.00	6	9	1118.34	2.2	54.7	42.2	8407.9	2.2	2.2	0.1	10	1242.6	0.4	10.1	7.8	1557.0	0.4	0.4	0.0
8.1	Rusmar foam applicator	0	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	ODEX applicator	0	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	6	9	2231.55	4.4	76.8	84.1	16777.2	4.4	4.4	0.1	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
8.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	6	9	2231.55	4.4	76.8	84.1	16777.2	4.4	4.4	0.1	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
8.1	CAT 434 Backhoe	53.35	3	0.175	0.0	3.325	568.3	0.3	0.3	0.005	0.02	0.00	0.39	66.85	0.04	0.04	0.00	6	9	480.15	1.1	0.0	21.1	3609.9	1.9	1.9	0.0	10	533.5	0.2	0.0	3.9	668.5	0.4	0.4	0.0
9.1	CAT 345 L excavator	216.6	3	0.15	0	2.85	568.3	0.15	0.15	0.005	0.07	0.00	1.36	271.41	0.07	0.07	0.00	6	9	1949.4	3.9	0.0	73.5	14656.0	3.9	3.9	0.1	10	2166	0.7	0.0	13.6	2714.1	0.7	0.7	0.0
9.1	CAT 980 Loader	241.45	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.08	1.97	1.52	302.54	0.08	0.08	0.00	6	9	2173.05	4.3	106.4	81.9	16337.4	4.3	4.3	0.1	10	2414.5	0.8	19.7	15.2	3025.4	0.8	0.8	0.0
9.1	CAT 434 Backhoe	53.35	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.02	0.31	0.39	66.85	0.04	0.04	0.00	6	9	480.15	1.1	16.5	21.1	3609.9	1.9	1.9	0.0	10	533.5	0.2	3.1	3.9	668.5	0.4	0.4	0.0
9.1	Rusmar foam applicator	0	3	0.175	2.6	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	ODEX applicator	0	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	6	9	2231.55	4.4	76.8	84.1	16777.2	4.4	4.4	0.1	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
9.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	6	9	2231.55	4.4	76.8	84.1	16777.2	4.4	4.4	0.1	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
9.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	568.3	0.150	0.150	0.005	0.08	1.42	1.56	310.69	0.08	0.08	0.00	6	9	2231.55	4.4	76.8	84.1	16777.2	4.4	4.4	0.1	10	2479.5	0.8	14.2	15.6	3106.9	0.8	0.8	0.0
9.1	CAT D6 dozer	88.5	3	0.15	0	2.85	568.3	0.22	0.22	0.005	0.03	0.00	0.56	110.89	0.04	0.04	0.00	6	9	796.5	1.6	0.0	30.0	5988.2	2.3	2.3	0.1	10	885	0.3	0.0	5.6	1108.9	0.4	0.4	0.0
9.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	568.3	0.22	0.22	0.005	0.03	0.72	0.56	110.89	0.04	0.04	0.00	8	9	796.5	2.1	52.0	40.0	7984.3	3.1	3.1	0.1	10	885	0.3	7.2	5.6	1108.9	0.4	0.4	0.0
9.2	CAT 563 compactor	84.71	3	0.15	3.7	2.85	568.3	0.15	0.15	0.005	0.03	0.69	0.53	106.14	0.03	0.03	0.00	8	9	762.39	2.0	49.8	38.3	7642.4	2.0	2.0	0.1	10	847.1	0.3	6.9	5.3	1061.4	0.3	0.3	0.0
10.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	568.3	0.3	0.3	0.005	0.02	0.44	0.39	66.85	0.04	0.04	0.00	10	9	480.15	1.9	39.2	35.2	6016.4	3.2	3.2	0.1	10	533.5	0.2	4.4	3.9	668.5	0.4	0.4	0.0

Emissions by Phase

Hourly (lb/hr)

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	0.058	1.075	1.093	206.725	0.072	0.072	0.002
2.1	0.136	2.775	2.588	516.124	0.163	0.163	0.004
2.2	0.080	1.384	1.517	302.545	0.080	0.080	0.003
2.3	0.029	0.435	0.542	92.712	0.049	0.049	0.046
2.4	0.279	5.181	5.303	1031.734	0.323	0.323	0.009
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.1	0.213	3.773	4.050	796.502	0.228	0.228	0.007
3.2	0.598	8.617	11.371	2256.297	0.627	0.627	0.019
3.3	0.078	1.719	1.480	283.887	0.106	0.106	0.002
3.4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4.1	0.050	1.028	0.947	177.743	0.078	0.078	0.002
5.1	0.041	1.014	0.781	155.702	0.041	0.041	0.001
6.1	0.057	1.198	1.088	217.038	0.071	0.071	0.002
7.1	0.057	1.208	1.088	217.038	0.071	0.071	0.002
7.2	0.041	0.712	0.781	155.702	0.041	0.041	0.001
8.1	0.226	3.857	4.288	843.929	0.240	0.240	0.007
8.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9.1	0.529	7.961	10.058	1994.451	0.558	0.558	0.017
9.2	0.057	1.413	1.088	217.038	0.071	0.071	0.002
10.1	0.021	0.435	0.391	66.849	0.035	0.035	0.001

Annual (lb)

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	91.32	1716.95	1735.05	326923.62	116.46	116.46	2.80
2.1	36.78	749.17	698.85	139353.42	43.88	43.88	1.19
2.2	3.59	62.29	68.28	13614.50	3.59	3.59	0.12
2.3	3.73	58.76	70.96	12128.16	6.40	6.40	5.56
2.4	20.09	373.07	381.80	74284.83	23.28	23.28	0.64
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.1	40.29	713.18	765.51	150538.90	43.07	43.07	1.29
3.2	624.81	8996.53	11871.43	2355573.65	654.42	654.42	20.19
3.3	77.09	1701.70	1464.76	281047.99	105.17	105.17	2.41
3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.1	61.02	1258.06	1159.43	217556.88	95.74	95.74	1.86
5.1	22.19	547.41	421.65	84078.93	22.19	22.19	0.72
6.1	52.59	1100.14	999.18	199240.54	65.13	65.13	1.71
7.1	11.34	239.11	215.51	42973.45	14.05	14.05	0.37
7.2	7.40	128.22	140.55	28026.31	7.40	7.40	0.24
8.1	12.19	208.25	231.56	45572.19	12.98	12.98	0.39
8.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.1	28.59	429.91	543.13	107700.33	30.12	30.12	0.92
9.2	4.12	101.74	78.37	15626.71	5.11	5.11	0.13
10.1	1.85	39.17	35.20	6016.43	3.18	3.18	0.05

Daily

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	0.501	9.472	9.523	1787.500	0.648	0.648	0.015
2.1	1.362	27.747	25.883	5161.238	1.625	1.625	0.044
2.2	0.799	13.842	15.172	3025.445	0.799	0.799	0.026
2.3	0.270	4.352	5.122	875.393	0.462	0.462	0.372
2.4	2.791	51.815	53.028	10317.338	3.234	3.234	0.088
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.1	2.132	37.734	40.503	7965.021	2.279	2.279	0.068
3.2	5.985	86.174	113.711	22562.966	6.268	6.268	0.193
3.3	0.779	17.189	14.796	2838.869	1.062	1.062	0.024
3.4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4.1	0.499	10.278	9.472	1777.425	0.782	0.782	0.015
5.1	0.411	10.137	7.808	1557.017	0.411	0.411	0.013
6.1	0.573	11.984	10.884	2170.376	0.709	0.709	0.019
7.1	0.573	12.076	10.884	2170.376	0.709	0.709	0.019
7.2	0.411	7.123	7.808	1557.017	0.411	0.411	0.013
8.1	2.257	38.566	42.881	8439.294	2.404	2.404	0.072
8.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9.1	5.294	79.613	100.580	19944.506	5.577	5.577	0.171
9.2	0.573	14.131	10.884	2170.376	0.709	0.709	0.019
10.1	0.206	4.352	3.911	668.492	0.353	0.353	0.006

Summary (DO NOT PRINT)

Phase / Subphase No.	PM10 Emissions (lbs/hr)	PM10 Emissions (lbs/year)	PM10 Emissions (lbs/day)	Source
1.1	7.2E-02	1.2E+02	6.5E-01	Equipment Emissions
2.1	1.6E-01	4.4E+01	1.6E+00	Equipment Emissions
2.2	8.0E-02	3.6E+00	8.0E-01	Equipment Emissions
2.3	4.9E-02	6.4E+00	4.6E-01	Equipment Emissions
2.4	3.2E-01	2.3E+01	3.2E+00	Equipment Emissions
2.5	0.0E+00	0.0E+00	0.0E+00	Equipment Emissions
3.1	2.3E-01	4.3E+01	2.3E+00	Equipment Emissions
3.2	6.3E-01	6.5E+02	6.3E+00	Equipment Emissions
3.3	1.1E-01	1.1E+02	1.1E+00	Equipment Emissions
3.4	0.0E+00	0.0E+00	0.0E+00	Equipment Emissions
4.1	7.8E-02	9.6E+01	7.8E-01	Equipment Emissions
5.1	4.1E-02	2.2E+01	4.1E-01	Equipment Emissions
6.1	7.1E-02	6.5E+01	7.1E-01	Equipment Emissions
7.1	7.1E-02	1.4E+01	7.1E-01	Equipment Emissions
7.2	4.1E-02	7.4E+00	4.1E-01	Equipment Emissions
8.1	2.4E-01	1.3E+01	2.4E+00	Equipment Emissions
8.2	0.0E+00	0.0E+00	0.0E+00	Equipment Emissions
9.1	5.6E-01	3.0E+01	5.6E+00	Equipment Emissions
9.2	7.1E-02	5.1E+00	7.1E-01	Equipment Emissions
10.1	3.5E-02	3.2E+00	3.5E-01	Equipment Emissions

ASCON HRA - Emissions Inventory

On-site Equipment Emissions

1 mile = 1 609.344 meter

Emission Factor Equation

Emissions (Offroad Construction Equipment) = E x bhp-hr

Where:

E = size-specific emission factor (g/bhp-hr)

Source: EMFAC2011

Assumptions

Assumptions	Value	Units	Notes
Equipment Engine Tier	3	-	Refers to EPA emission standards (Tier 1-4) for Offroad equipment
Diesel Particulate Filter Reduction	0	%	CARB Level 3 certifieid diesel particulate filter (DPF)
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Hours per Day (Worst case)	11	hours	Hours of Operation 7AM-6PM
Haul Route Length	600	meters	Measured from Lagoon 1-2 to northwest corner, northeast corner and southwest corner.

OFF-ROAD ENGINE EMISSION RATES

USEPA TABLE I - EPA Tier 1-3 Nonroad Diesel Engine Emission Standards (g/bhp-hr)

Engine Power		Tier	CO
(25 ≤ hp < 50)	50	1	4.9
(25 ≤ hp < 50)	50	2	4.9
(50 ≤ hp < 100)	100	1	-
(50 ≤ hp < 100)	100	2	3.7
(50 ≤ hp < 100)	100	3	3.7
(100 ≤ hp < 175)	175	1	-
(100 ≤ hp < 175)	175	2	3.7
(100 ≤ hp < 175)	175	3	3.7
(175 ≤ hp < 300)	300	1	8.5
(175 ≤ hp < 300)	300	2	2.6
(175 ≤ hp < 300)	300	3	2.6
(300 ≤ hp < 600)	600	1	8.5
(300 ≤ hp < 600)	600	2	2.6
(300 ≤ hp < 600)	600	3	2.6

Tiers 1, 2,3 &4 Off-Road Engine Emission Standards

HP Range	Tier	Nox	ROG	PM
75 - 99	1	6.9	1.19	0.552
100 - 174	1	6.9	0.82	0.304
175 - 299	1	6.9	1	0.4
300 - 600	1	6.9	1	0.4
75 - 99	2	5.32	0.28	0.3
100 - 174	2	4.655	0.245	0.22
175 - 299	2	4.655	0.245	0.15
300 - 600	2	4.56	0.24	0.15
75 - 99	3	3.325	0.175	0.3
100 - 174	3	2.85	0.15	0.22
175 - 299	3	2.85	0.15	0.15
300 - 600	3	2.85	0.15	0.15
75 - 99	4	2.5	0.14	0.015
100 - 174	4	2.5	0.14	0.015
175 - 299	4	1.5	0.14	0.015
300 - 600	4	1.5	0.14	0.015

Note: Based on SCAQMD Table II-B Tiers 1, 2,3 &4 Off-Road Engine Emission Standards

Equipment List by Phase

								Emission Factors (g/bhp-hr)							
Phase	Equipment	hp/size	CalEEMod Category	Load Factor	Output (bhp)	Engine Size Class	Engine Size Class (CO)	Engine Tier	ROG	CO	Nox	CO2	PM10	PM2.5	SOx
1.1	CAT 930 Loader	149	Tractors/Loaders/Backhoes	0.55	81.95	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
1.1	CAT 140 Grader	183	Graders	0.61	111.63	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
2.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
2.1	CAT 930 Loader	149	Tractors/Loaders/Backhoes	0.55	81.95	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
2.1	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
2.2	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
2.3	40 ton crane model JLG400S	48	Cranes	0.43	20.64	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	1.005
2.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
2.4	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
2.4	CAT 434 Backhoe w/forks	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
2.4	CAT XQ400 Portable Generator, Engine Model C15	563	Generator Sets	0.74	416.62	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
2.4	CAT 311 Excavator	118	Excavators	0.57	67.26	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
2.4	DV15I 1000 gpm pump; slurry operation	94	Pumps	0.74	69.56	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
3.1	CAT 345 L Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
3.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
3.1	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
3.1	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
3.1	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
3.1	CAT D6 Dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
3.2	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4a.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4a.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4a.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4a.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4a.3	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4a.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4a.3	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4a.3	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4a.3	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4a.4	CAT 980 Loader	439	Rubber Tired Loaders	0.54	237.06	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4a.6	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4a.6	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4b.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4b.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4b.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4b.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4b.3	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4b.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4b.3	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4b.3	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4b.3	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4b.4	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4b.6	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4c.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4c.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4c.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4c.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4c.3	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4c.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4c.3	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4c.3	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4c.3	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4c.4	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4c.6	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4d.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4d.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4d.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
4d.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
4d.3	CAT 345 Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4d.3	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
4d.3	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4d.3	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
4d.3	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4d.4	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
4d.6	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
5.1	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
5.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
5.2	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
5.2	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
6.1	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
6.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
6.2	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.1	CAT 345 L Excavator	380	Excavators	0.57	216.6	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.1	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005
7.1	Rusmar foam applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
7.1	ODEX applicator	0		0	0	75 - 99	(25 ≤ hp < 50)	3	0.175	0.0	3.325		0.300	0.300	0.005
7.1	CAT 735 off-road dump truck	435	Off-Highway Trucks	0.57	247.95	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.1	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
7.2	CAT 980 Loader	439	Tractors/Loaders/Backhoes	0.55	241.45	300 - 600	(300 ≤ hp < 600)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.3	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.3	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
7.4	CAT 330 excavator	218	Excavators	0.57	124.26	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
7.4	CAT D6 dozer	150	Rubber Tired Dozers	0.59	88.5	100 - 174	(100 ≤ hp < 175)	3	0.15	3.7	2.85		0.220	0.220	0.005
7.4	CAT 563 compactor	197	Plate Compactors	0.43	84.71	175 - 299	(175 ≤ hp < 300)	3	0.15	2.6	2.85		0.150	0.150	0.005
8.1	CAT 434 Backhoe	97	Tractors/Loaders/Backhoes	0.55	53.35	75 - 99	(50 ≤ hp < 100)	3	0.175	3.7	3.325		0.300	0.300	0.005

Emissions Calculation by Equipment (Hourly, Yearly, Daily)

				Emission Factors (g/bhp-hr)							Hourly Emissions (lb)							Annual Emissions (lb)										Daily Emissions (lb)								
Phase	Equipment	Output (bhp)	Engine Tier	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	Phase Duration (days)	Hours per Day	bhp-hr	ROG	CO	Nox	CO2	PM10	PM2.5	SOx	Max Hours per Day	bhp-hr	ROG	CO	Nox	CO2	PM10	PM2.5	SOx
1.1	CAT 930 Loader	81.95	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.67	0.51	0.00	0.04	0.04	0.00	739	9	737.55	89.0	2196.2	1691.7	0.0	264.4	130.6	2.9	10	819.5	0.3	6.7	5.1	0.0	0.4	0.4	0.0
1.1	CAT 140 Grader	111.63	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.64	0.70	0.00	0.04	0.04	0.00	739	8	893.04	107.8	1868.6	2048.3	0.0	218.3	107.8	3.5	8	893.04	0.3	5.1	5.6	0.0	0.3	0.3	0.0
2.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	22	9	796.5	5.8	143.0	110.1	0.0	8.5	8.5	0.2	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
2.1	CAT 930 Loader	81.95	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.67	0.51	0.00	0.04	0.04	0.00	22	9	737.55	5.4	132.4	102.0	0.0	7.9	7.9	0.2	10	819.5	0.3	6.7	5.1	0.0	0.4	0.4	0.0
2.1	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	22	9	2173.05	15.8	274.1	300.4	0.0	15.8	15.8	0.5	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
2.2	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	5	9	2173.05	3.6	62.3	68.3	0.0	3.6	3.6	0.1	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
2.3	40 ton crane model JLG400S	20.64	3	0.175	0.0	3.325	0	0.3	0.3	1.005	0.01	0.00	0.15	0.00	0.01	0.01	0.05	15	8	165.12	1.0	0.0	18.2	0.0	1.6	1.6	5.5	8	165.12	0.1	0.0	1.2	0.0	0.1	0.1	0.4
2.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	15	9	480.15	2.8	58.8	52.8	0.0	4.8	4.8	0.1	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
2.4	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	101	9	1949.4	65.1	1128.7	1237.2	0.0	65.1	65.1	2.1	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
2.4	CAT 434 Backhoe w/forks	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	101	9	480.15	18.7	395.6	355.5	0.0	32.1	32.1	0.5	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
2.4	CAT XQ400 Portable Generator, Engine Model C15	416.62	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.14	2.39	2.62	0.00	0.14	0.14	0.00	101	9	3749.58	125.3	2171.0	2379.8	0.0	125.3	125.3	4.1	10	4166.2	1.4	23.9	26.2	0.0	1.4	1.4	0.0
2.4	CAT 311 Excavator	67.26	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.02	0.55	0.42	0.00	0.03	0.03	0.00	101	9	605.34	20.2	498.8	384.2	0.0	29.7	29.7	0.7	10	672.6	0.2	5.5	4.2	0.0	0.3	0.3	0.0
2.4	DV15I 1000 gpm pump; slurry operation	69.56	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.03	0.57	0.51	0.00	0.05	0.05	0.00	101	9	626.04	24.4	515.8	463.6	0.0	41.8	41.8	0.7	10	695.6	0.3	5.7	5.1	0.0	0.5	0.5	0.0
3.1	CAT 345 L Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	98	9	1949.4	63.2	1095.2	1200.5	0.0	63.2	63.2	2.1	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
3.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	98	9	480.15	18.2	383.9	345.0	0.0	31.1	31.1	0.5	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
3.1	Rusmar foam applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	ODEX applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	98	9	2231.55	72.3	1253.7	1374.2	0.0	72.3	72.3	2.3	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
3.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	98	9	2231.55	72.3	1253.7	1374.2	0.0	72.3	72.3	2.3	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
3.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	98	9	2231.55	72.3	1253.7	1374.2	0.0	72.3	72.3	2.3	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
3.1	CAT D6 Dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	98	9	796.5	25.8	636.8	490.5	0.0	37.9	37.9	0.8	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
3.2	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	114	9	2173.05	81.9	1420.1	1556.7	0.0	81.9	81.9	2.7	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
4a.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	7	9	796.5	1.8	45.5	35.0	0.0	2.7	2.7	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4a.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	7	9	480.15	1.3	27.4	24.6	0.0	2.2	2.2	0.0	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4a.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	15	9	1118.34	5.5	96.2	105.4	0.0	5.5	5.5	0.2	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
4a.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	15	9	796.5	4.0	97.5	75.1	0.0	5.8	5.8	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4a.3	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	74	9	1949.4	47.7	827.0	906.5	0.0	47.7	47.7	1.5	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
4a.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	74	9	480.15	13.7	289.9	260.5	0.0	23.5	23.5	0.4	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4a.3	Rusmar foam applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4a.3	ODEX applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4a.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	74	9	2231.55	54.6	946.7	1037.7	0.0	54.6	54.6	1.8	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4a.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	74	9	2231.55	54.6	946.7	1037.7	0.0	54.6	54.6	1.8	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4a.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	74	9	2231.55	54.6	946.7	1037.7	0.0	54.6	54.6	1.8	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4a.4	CAT 980 Loader	237.06	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.36	1.49	0.00	0.08	0.08	0.00	75	9	2133.54	52.9	917.3	1005.5	0.0	52.9	52.9	1.7	10	2370.6	0.8	13.6	14.9	0.0	0.8	0.8	0.0
4a.6	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	45	9	796.5	11.9	292.4	225.2	0.0	17.4	17.4	0.4	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4a.6	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	45	9	762.39	11.3	196.7	215.6	0.0	11.3	11.3	0.4	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
4b.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	5	9	796.5	1.3	32.5	25.0	0.0	1.9	1.9	0.0	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4b.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	5	9	480.15	0.9	19.6	17.6	0.0	1.6	1.6	0.0	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4b.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	10	9	1118.34	3.7	64.1	70.3	0.0	3.7	3.7	0.1	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
4b.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	10	9	796.5	2.6	65.0	50.1	0.0	3.9	3.9	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4b.3	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	130	9	1949.4	83.8	1452.8	1592.5	0.0	83.8	83.8	2.7	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
4b.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	130	9	480.15	24.1	509.2	457.6	0.0	41.3	41.3	0.7	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4b.3	Rusmar foam applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4b.3	ODEX applicator	0	3	0.175	0.0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4b.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	130	9	2231.55	95.9	1663.1	1823.0	0.0	95.9	95.9	3.1	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4b.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	130	9	2231.55	95.9	1663.1	1823.0	0.0	95.9	95.9	3.1	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4b.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	130	9	2231.55	95.9	1663.1	1823.0	0.0	95.9	95.9	3.1	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4b.4	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	141	9	2173.05	101.3	1756.5	1925.4	0.0	101.3	101.3	3.3	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
4b.6	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	27	9	762.39	6.8	118.0	129.4	0.0	6.8	6.8	0.2	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
4c.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	7	9	796.5	1.8	45.5	35.0	0.0	2.7	2.7	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4c.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	7	9	480.15	1.3	27.4	24.6	0.0	2.2	2.2	0.0	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4c.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	15	9	1118.34	5.5	96.2	105.4	0.0	5.5	5.5	0.2	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
4c.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	15	9	796.5	4.0	97.5	75.1	0.0	5.8	5.8	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4c.3	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	124	9	1949.4	79.9	1385.7	1519.0	0.0	79.9	79.9	2.6	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
4c.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	124	9	480.15	23.0	485.7	436.5	0.0	39.4	39.4	0.6	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4c.3	Rusmar foam applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4c.3	ODEX applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4c.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	124	9	2231.55	91.5	1586.3	1738.8	0.0	91.5	91.5	3.0	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4c.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	124	9	2231.55	91.5	1586.3	1738.8	0.0	91.5	91.5	3.0	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4c.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	124	9	2231.55	91.5	1586.3	1738.8	0.0	91.5	91.5	3.0	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4c.4	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	125	9	2173.05	89.8	1557.2	1706.9	0.0	89.8	89.8	2.9	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
4c.6	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	48	9	762.39	12.1	209.8	230.0	0.0	12.1	12.1	0.4	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
4d.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	10	9	796.5	2.6	65.0	50.1	0.0	3.9	3.9	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4d.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	10	9	480.15	1.9	39.2	35.2	0.0	3.2	3.2	0.1	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4d.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	15	9	1118.34	5.5	96.2	105.4	0.0	5.5	5.5	0.2	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
4d.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	15	9	796.5	4.0	97.5	75.1	0.0	5.8	5.8	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
4d.3	CAT 345 Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	258	9	1949.4	166.3	2883.2	3160.5	0.0	166.3	166.3	5.4	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
4d.3	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	258	9	480.15	47.8	1010.6	908.2	0.0	81.9	81.9	1.3	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
4d.3	Rusmar foam applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	258	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4d.3	ODEX applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	258	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4d.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	258	9	2231.55	190.4	3300.5	3617.9	0.0	190.4	190.4	6.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4d.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	258	9	2231.55	190.4	3300.5	3617.9	0.0	190.4	190.4	6.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4d.3	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	258	9	2231.55	190.4	3300.5	3617.9	0.0	190.4	190.4	6.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
4d.4	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	262	9	2173.05	188.3	3263.8	3577.7	0.0	188.3	188.3	6.1	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
4d.6	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	72	9	762.39	18.2	314.7	344.9	0.0	18.2	18.2	0.6	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
5.1	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	233	9	762.39	58.8	1018.3	1116.3	0.0	58.8	58.8	1.9	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
5.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	233	9	796.5	61.4	1514.0	1166.2	0.0	90.0	90.0	2.0	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
5.2	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	10	9	762.39	2.5	43.7	47.9	0.0	2.5	2.5	0.1	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
5.2	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	10	9	796.5	2.6	65.0	50.1	0.0	3.9	3.9	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
6.1	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	22	9	762.39	5.5	96.2	105.4	0.0	5.5	5.5	0.2	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
6.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	22	9	796.5	5.8	143.0	110.1	0.0	8.5	8.5	0.2	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
6.2	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	20	9	1118.34	7.4	128.2	140.6	0.0	7.4	7.4	0.2	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
7.1	CAT 345 L Excavator	216.6	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.07	1.24	1.36	0.00	0.07	0.07	0.00	8	9	1949.4	5.2	89.4	98.0	0.0	5.2	5.2	0.2	10	2166	0.7	12.4	13.6	0.0	0.7	0.7	0.0
7.1	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	8	9	2173.05	5.7	99.7	109.2	0.0	5.7	5.7	0.2	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
7.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	8	9	480.15	1.5	31.3	28.2	0.0	2.5	2.5	0.0	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0
7.1	Rusmar foam applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	ODEX applicator	0	3	0.175	0	3.325	0	0.3	0.3	0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	8	9	2231.55	5.9	102.3	112.2	0.0	5.9	5.9	0.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
7.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	8	9	2231.55	5.9	102.3	112.2	0.0	5.9	5.9	0.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
7.1	CAT 735 off-road dump truck	247.95	3	0.15	2.6	2.85	0	0.150	0.150	0.005	0.08	1.42	1.56	0.00	0.08	0.08	0.00	8	9	2231.55	5.9	102.3	112.2	0.0	5.9	5.9	0.2	10	2479.5	0.8	14.2	15.6	0.0	0.8	0.8	0.0
7.1	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	8	9	796.5	2.1	52.0	40.0	0.0	3.1	3.1	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
7.2	CAT 980 Loader	241.45	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.08	1.38	1.52	0.00	0.08	0.08	0.00	9	9	2173.05	6.5	112.1	122.9	0.0	6.5	6.5	0.2	10	2414.5	0.8	13.8	15.2	0.0	0.8	0.8	0.0
7.3	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	7	9	1118.34	2.6	44.9	49.2	0.0	2.6	2.6	0.1	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
7.3	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	7	9	796.5	1.8	45.5	35.0	0.0	2.7	2.7	0.1	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
7.4	CAT 330 excavator	124.26	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.04	0.71	0.78	0.00	0.04	0.04	0.00	1	9	1118.34	0.4	6.4	7.0	0.0	0.4	0.4	0.0	10	1242.6	0.4	7.1	7.8	0.0	0.4	0.4	0.0
7.4	CAT D6 dozer	88.5	3	0.15	3.7	2.85	0	0.22	0.22	0.005	0.03	0.72	0.56	0.00	0.04	0.04	0.00	1	9	796.5	0.3	6.5	5.0	0.0	0.4	0.4	0.0	10	885	0.3	7.2	5.6	0.0	0.4	0.4	0.0
7.4	CAT 563 compactor	84.71	3	0.15	2.6	2.85	0	0.15	0.15	0.005	0.03	0.49	0.53	0.00	0.03	0.03	0.00	1	9	762.39	0.3	4.4	4.8	0.0	0.3	0.3	0.0	10	847.1	0.3	4.9	5.3	0.0	0.3	0.3	0.0
8.1	CAT 434 Backhoe	53.35	3	0.175	3.7	3.325	0	0.3	0.3	0.005	0.02	0.44	0.39	0.00	0.04	0.04	0.00	5	9	480.15	0.9	19.6	17.6	0.0	1.6	1.6	0.0	10	533.5	0.2	4.4	3.9	0.0	0.4	0.4	0.0

Emissions by Phase

Hourly (lb/hr)

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	0.064	1.308	1.216	0.000	0.077	0.077	0.002
2.1	0.136	2.775	2.588	0.000	0.163	0.163	0.004
2.2	0.080	1.384	1.517	0.000	0.080	0.080	0.003
2.3	0.029	0.435	0.542	0.000	0.049	0.049	0.046
2.4	0.279	5.181	5.303	0.000	0.323	0.323	0.009
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.1	0.368	6.663	6.983	0.000	0.396	0.396	0.012
3.2	0.080	1.384	1.517	0.000	0.080	0.080	0.003
4a.1	0.050	1.157	0.947	0.000	0.078	0.078	0.002
4a.2	0.070	1.434	1.337	0.000	0.084	0.084	0.002
4a.3	0.338	5.941	6.426	0.000	0.353	0.353	0.011
4a.4	0.078	1.359	1.490	0.000	0.078	0.078	0.003
4a.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4a.6	0.057	1.208	1.088	0.000	0.071	0.071	0.002
4b.1	0.050	1.157	0.947	0.000	0.078	0.078	0.002
4b.2	0.070	1.434	1.337	0.000	0.084	0.084	0.002
4b.3	0.338	5.941	6.426	0.000	0.353	0.353	0.011
4b.4	0.080	1.384	1.517	0.000	0.080	0.080	0.003
4b.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4b.6	0.028	0.486	0.532	0.000	0.028	0.028	0.001
4c.1	0.050	1.157	0.947	0.000	0.078	0.078	0.002
4c.2	0.070	1.434	1.337	0.000	0.084	0.084	0.002
4c.3	0.338	5.941	6.426	0.000	0.353	0.353	0.011
4c.4	0.080	1.384	1.517	0.000	0.080	0.080	0.003
4c.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4c.6	0.028	0.486	0.532	0.000	0.028	0.028	0.001
4d.1	0.050	1.157	0.947	0.000	0.078	0.078	0.002
4d.2	0.070	1.434	1.337	0.000	0.084	0.084	0.002
4d.3	0.338	5.941	6.426	0.000	0.353	0.353	0.011
4d.4	0.080	1.384	1.517	0.000	0.080	0.080	0.003
4d.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4d.6	0.028	0.486	0.532	0.000	0.028	0.028	0.001
5.1	0.057	1.208	1.088	0.000	0.071	0.071	0.002
5.2	0.057	1.208	1.088	0.000	0.071	0.071	0.002
6.1	0.057	1.208	1.088	0.000	0.071	0.071	0.002
6.2	0.041	0.712	0.781	0.000	0.041	0.041	0.001
7.1	0.447	8.047	8.500	0.000	0.476	0.476	0.014
7.2	0.080	1.384	1.517	0.000	0.080	0.080	0.003
7.3	0.070	1.434	1.337	0.000	0.084	0.084	0.002
7.4	0.098	1.920	1.869	0.000	0.112	0.112	0.003
8.1	0.021	0.435	0.391	0.000	0.035	0.035	0.001

Annual (lb)

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	196.84	4064.82	3739.96	0.00	482.66	238.39	6.39
2.1	26.97	549.39	512.49	0.00	32.18	32.18	0.88
2.2	3.59	62.29	68.28	0.00	3.59	3.59	0.12
2.3	3.73	58.76	70.96	0.00	6.40	6.40	5.56
2.4	253.70	4709.95	4820.27	0.00	293.93	293.93	8.04
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.1	324.14	5876.92	6158.67	0.00	349.16	349.16	10.44
3.2	81.93	1420.14	1556.70	0.00	81.93	81.93	2.66
4a.1	3.14	72.90	59.68	0.00	4.93	4.93	0.10
4a.2	9.50	193.63	180.49	0.00	11.34	11.34	0.31
4a.3	225.27	3956.83	4280.04	0.00	235.06	235.06	7.25
4a.4	52.92	917.32	1005.52	0.00	52.92	52.92	1.72
4a.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4a.6	23.20	489.08	440.82	0.00	28.73	28.73	0.75
4b.1	2.24	52.07	42.63	0.00	3.52	3.52	0.07
4b.2	6.33	129.09	120.33	0.00	7.56	7.56	0.21
4b.3	395.74	6951.19	7519.00	0.00	412.94	412.94	12.74
4b.4	101.34	1756.49	1925.39	0.00	101.34	101.34	3.29
4b.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4b.6	6.81	118.00	129.35	0.00	6.81	6.81	0.22
4c.1	3.14	72.90	59.68	0.00	4.93	4.93	0.10
4c.2	9.50	193.63	180.49	0.00	11.34	11.34	0.31
4c.3	377.47	6630.36	7171.97	0.00	393.88	393.88	12.15
4c.4	89.84	1557.18	1706.90	0.00	89.84	89.84	2.92
4c.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4c.6	12.10	209.79	229.96	0.00	12.10	12.10	0.39
4d.1	4.49	104.15	85.25	0.00	7.04	7.04	0.14
4d.2	9.50	193.63	180.49	0.00	11.34	11.34	0.31
4d.3	785.38	13795.43	14922.31	0.00	819.53	819.53	25.28
4d.4	188.30	3263.84	3577.67	0.00	188.30	188.30	6.11
4d.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4d.6	18.15	314.68	344.94	0.00	18.15	18.15	0.59
5.1	120.13	2532.34	2282.45	0.00	148.77	148.77	3.90
5.2	5.16	108.68	97.96	0.00	6.39	6.39	0.17
6.1	11.34	239.11	215.51	0.00	14.05	14.05	0.37
6.2	7.40	128.22	140.55	0.00	7.40	7.40	0.24
7.1	32.21	579.41	611.99	0.00	34.25	34.25	1.04
7.2	6.47	112.12	122.90	0.00	6.47	6.47	0.21
7.3	4.43	90.36	84.23	0.00	5.29	5.29	0.14
7.4	0.89	17.28	16.82	0.00	1.01	1.01	0.03
8.1	0.93	19.59	17.60	0.00	1.59	1.59	0.03

Daily

Phase	ROG	CO	NOx	CO2	PM10	PM2.5	SOx
1.1	0.566	11.805	10.761	0.000	0.693	0.693	0.018
2.1	1.362	27.747	25.883	0.000	1.625	1.625	0.044
2.2	0.799	13.842	15.172	0.000	0.799	0.799	0.026
2.3	0.270	4.352	5.122	0.000	0.462	0.462	0.372
2.4	2.791	51.815	53.028	0.000	3.234	3.234	0.088
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.1	3.675	66.632	69.826	0.000	3.959	3.959	0.118
3.2	0.799	13.842	15.172	0.000	0.799	0.799	0.026
4a.1	0.499	11.572	9.472	0.000	0.782	0.782	0.015
4a.2	0.704	14.343	13.370	0.000	0.840	0.840	0.023
4a.3	3.382	59.412	64.265	0.000	3.529	3.529	0.109
4a.4	0.784	13.590	14.897	0.000	0.784	0.784	0.025
4a.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4a.6	0.573	12.076	10.884	0.000	0.709	0.709	0.019
4b.1	0.499	11.572	9.472	0.000	0.782	0.782	0.015
4b.2	0.704	14.343	13.370	0.000	0.840	0.840	0.023
4b.3	3.382	59.412	64.265	0.000	3.529	3.529	0.109
4b.4	0.799	13.842	15.172	0.000	0.799	0.799	0.026
4b.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4b.6	0.280	4.856	5.323	0.000	0.280	0.280	0.009
4c.1	0.499	11.572	9.472	0.000	0.782	0.782	0.015
4c.2	0.704	14.343	13.370	0.000	0.840	0.840	0.023
4c.3	3.382	59.412	64.265	0.000	3.529	3.529	0.109
4c.4	0.799	13.842	15.172	0.000	0.799	0.799	0.026
4c.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4c.6	0.280	4.856	5.323	0.000	0.280	0.280	0.009
4d.1	0.499	11.572	9.472	0.000	0.782	0.782	0.015
4d.2	0.704	14.343	13.370	0.000	0.840	0.840	0.023
4d.3	3.382	59.412	64.265	0.000	3.529	3.529	0.109
4d.4	0.799	13.842	15.172	0.000	0.799	0.799	0.026
4d.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4d.6	0.280	4.856	5.323	0.000	0.280	0.280	0.009
5.1	0.573	12.076	10.884	0.000	0.709	0.709	0.019
5.2	0.573	12.076	10.884	0.000	0.709	0.709	0.019
6.1	0.573	12.076	10.884	0.000	0.709	0.709	0.019
6.2	0.411	7.123	7.808	0.000	0.411	0.411	0.013
7.1	4.474	80.473	84.999	0.000	4.757	4.757	0.144
7.2	0.799	13.842	15.172	0.000	0.799	0.799	0.026
7.3	0.704	14.343	13.370	0.000	0.840	0.840	0.023
7.4	0.984	19.199	18.693	0.000	1.120	1.120	0.032
8.1	0.206	4.352	3.911	0.000	0.353	0.353	0.006

ASCON HRA - Emissions Inventory

Concrete Breaking Emissions

Emission Factor Equation

Emissions (lbs PM10) = 0.00042 x Concrete Volume (ft^3)
Emissions (lbs.PM2.5) = 0.58 x PM10 emissions

Where:
Concrete Volume = Volume of concrete broken

Source: SCAQMD CEQA Handbook, Table A9-9-H. Estimating Emissions from Building Wrecking. 1993.
Source: California Emission Inventory and Reporting System (CEIDARS) Particulate Matter Speciation Profiles. California Air Resources Board. Accessed March 2013. http://www.arb.ca.gov/ei/speciate/pmsizevv10001xx20120920.zip.

Assumptions

Assumptions

Total Amount of Concrete On-site	30000	CY	Provided by Project Navigator.
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html

Phases with Grubbing Activities

Phase No.	Phase	Subphase No.	Subphase	Phase / Subphase No.	Duration of Task (days)	Total Concrete Volume (ft^3)	Average Daily Concrete Breaking Volume (ft^3)	Hourly Concrete Breaking Volume (ft^3)	Hours of Operation per Day
5	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill	1	0	5.1	60	810,000	13,500	1,500	9

Emissions Calculations

Hourly

Subphase	Phase / Subphase No.	Days	Max Hourly Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/hr)	Concrete Breaking Emissions (lbs PM2.5/hr)
Concrete Debris: Consolidate, Reduce a	5.1	60	1,500	61	0.246	0.14

Annual

Subphase	Phase / Subphase No.	Days	Annual Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/year)	Concrete Breaking Emissions (lbs PM2.5/year)
Concrete Debris: Consolidate, Reduce a	5.1	60	810,000	61	132.678	76.95

Daily

Subphase	Phase / Subphase No.	Days	Daily Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/day)	Concrete Breaking Emissions (lbs PM2.5/day)
Concrete Debris: Consolidate, Reduce a	5.1	60	13,500	61	2.211	1.28

ASCON HRA - Emissions Inventory

Concrete Breaking Emissions

Emission Factor Equation

Emissions (lbs PM10) = 0.00042 x Concrete Volume (ft^3)
Emissions (lbs.PM2.5) = 0.58 x PM10 emissions

Where:
Concrete Volume = Volume of concrete broken

Source: SCAQMD CEQA Handbook, Table A9-9-H. Estimating Emissions from Building Wrecking. 1993.
Source: California Emission Inventory and Reporting System (CEIDARS) Particulate Matter Speciation Profiles. California Air Resources Board. Accessed March 2013. http://www.arb.ca.gov/ei/speciate/pmsizevv10001xx20120920.zip.

Assumptions

Assumptions

Total Amount of Concrete On-site	30000	CY	Provided by Project Navigator.
Hours per Day	9	hours	Hours of Operation 7AM-4PM
Mitigation (% Reduction)	61	(%)	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html

Phases with Grubbing Activities

Phase No.	Phase	Subphase No.	Subphase	Phase / Subphase No.	Duration of Task (days)	Total Concrete Volume (ft^3)	Average Daily Concrete Breaking Volume (ft^3)	Maximum HourlyConcrete Breaking Volume (ft^3)	Hours of Operation per Day
4a	North Parcel	2	Consolidate concrete rubble (performed concurrently with Task 3)	4a.2	15	202,500	13,500	1,500	9
4b	East Parcel	2	Consolidate concrete rubble (performed concurrently with Task 3)	4b.2	10	202,500	20,250	2,250	9
4c	Central Parcel	2	Consolidate concrete rubble (performed concurrently with Task 3)	4c.2	15	202,500	13,500	1,500	9
4d	South and West Parcel	2	Consolidate concrete rubble (performed concurrently with Task 3)	4d.2	15	202,500	13,500	1,500	9

Emissions Calculations

Hourly

Subphase	Phase / Subphase No.	Days	Max Hourly Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/hr)	Concrete Breaking Emissions (lbs PM2.5/hr)
North Parcel	4a.2	15	1,500	61	0.246	0.14
East Parcel	4b.2	10	2,250	61	0.369	0.21
Central Parcel	4c.2	15	1,500	61	0.246	0.14
South and West Parcel	4d.2	15	1,500	61	0.246	0.14

Annual

Subphase	Phase / Subphase No.	Days	Annual Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/year)	Concrete Breaking Emissions (lbs PM2.5/year)
North Parcel	4a.2	15	202,500	61	33.170	19.24
East Parcel	4b.2	10	202,500	61	33.170	19.24
Central Parcel	4c.2	15	202,500	61	33.170	19.24
South and West Parcel	4d.2	15	202,500	61	33.170	19.24
						0

Daily

Subphase	Phase / Subphase No.	Days	Daily Concrete Breaking Volume (ft^3)	Mitigation (%)	Concrete Breaking Emissions (lbs PM10/day)	Concrete Breaking Emissions (lbs PM2.5/day)
North Parcel	4a.2	15	13,500	61	2.211	1.28
East Parcel	4b.2	10	20,250	61	3.317	1.92
Central Parcel	4c.2	15	13,500	61	2.211	1.28
South and West Parcel	4d.2	15	13,500	61	2.211	1.28

ASCON HRA - Emissions Inventory

On-site Haul Roads - Reentrained Dust (Benzidine Contaminated Area)

1 square meter = 10.763 910 417 square foot
1 mile = 1 609.344 meter

Assumptions

Parameter	Value	Units	Notes
Area of Disturbance	9632.1	m2	Based on location of detected sampling locations, bounded by non-detected sampling locations. Area measured using Lakes AERMOD View.
Depth of Excavation	15	ft	Maximum sampling depth provided in database.
Volume of Excavation	57,599	CY	
Total Phase Excavation Duration	116	days	Phase 3.2, Cut/fill to top of waste. Please see Excavation sheet for assumptions.
Truck Travel Length	300	m	One corner of area of disturbance to the other. Round trip.
Truck Travel Length	0.186	mi	Conversion to miles.

Emissions Calculation

Parameter	Value	Units	Notes
Excavation Fugitive Dust			
Total cubic yards soil of Excavation	57,599	CY	Based on depth and area of benzidine contaminated area.
Total tons soil of Excavation	86,399	tons	Based on 3000 lbs/CY. Please see Excavation sheet.
EF (lbs/ton)	9.39E-05	lbs/ton	Please see Excavation sheet.
Mitigation (%)	61	(%)	Assumes watering 3x daily. Please see Excavation sheet.
Total PM10 Emissions	**3.1628**	lbs	
Water and Foam Truck Emissions			
Average Daily Trips	20	trips	10 water trucks + 10 foam trucks per day. Please see Onsite Road (Dust) sheet
Total VMT	432	miles	# of trucks x distance travelled x days of activity
Road Dust Emission Factor (lb/mi)	2.2	lb/mi	Please see Onsite Road (Dust) sheet
Total Emissions	**191**	lbs	Assumes 80% control for watering and soil stabilizers
On-site Haul Truck Emissions (Off-road Articulated Trucks)			
Average Daily Trips	68	trips	Please see Onsite Road (Dust) sheet
Total VMT	1470	miles	# of trucks x distance travelled x days of activity
Road Dust Emission Factor (lb/mi)	3.0	lb/mi	Please see Onsite Road (Dust) sheet
Total Emissions	**889**	lbs	Assumes 80% control for watering and soil stabilizers
Total Fugitive Dust Emissions	**1083**	lbs	
Benzidine Concentration (UCL) in Soil	17	mg/kg	Please see UCL / Max Concentration calculations
Total Benzidine Emissions (lbs)	**1.841E-02**	lbs	Input this value into HARP. Only for BENZ_1 Source.

ASCON HRA - Emissions Inventory

On-site Haul Roads - Reentrained Dust (Benzidine Contaminated Area)

1 square meter = 10.763 910 417 square foot
1 mile = 1 609.344 meter

This tab calculates fugitive dust emissions resulting from excavation of the benzidine contaminated area. These emissions are a subset of the overall emissions calculations and should not be considered separately.

Sources of fugitive dust during excavation of this area are road dust from trucks and soil handling.

Assumptions

Parameter	Value	Units	Notes
Area of Disturbance	9632.1	m2	Based on location of detected sampling locations, bounded by non-detected sampling locations. Area measured using Lakes AERMOD View.
Depth of Excavation	22.5	ft	Maximum sampling depth provided in database, +50% to account for Alt 6 excavation quantities.
Volume of Excavation	86,399	CY	
Total Phase Excavation Duration	74	days	Phase 4A, North Parcel. Please see Excavation sheet for assumptions.
Truck Travel Length	300	m	One corner of area of disturbance to the other. Round trip.
Truck Travel Length	0.186	mi	Conversion to miles.

Emissions Calculation

Parameter	Value	Units	Notes
Excavation Fugitive Dust			
Total cubic yards soil of Excavation	86,399	CY	Based on depth and area of benzidine contaminated area.
Total tons soil of Excavation	129,599	tons	Based on 3000 lbs/CY. Please see Excavation sheet.
EF (lbs/ton)	9.39E-05	lbs/ton	Please see Excavation sheet.
Mitigation (%)	61	(%)	Assumes watering 3x daily. Please see Excavation sheet.
Total PM10 Emissions	**4.7443**	lbs	
Water and Foam Truck Emissions			
Average Daily Trips	20	trips	10 water trucks + 10 foam trucks per day. Please see Onsite Road (Dust) sheet
Total VMT	276	miles	# of trucks x distance travelled x days of activity
Road Dust Emission Factor (lb/mi)	2.2	lb/mi	Please see Onsite Road (Dust) sheet
Total Emissions	**122**	lbs	Assumes 80% control for watering and soil stabilizers
Haul Truck Emissions			
Average Daily Trips	84	trips	Please see Onsite Road (Dust) sheet
Total VMT	1159	miles	# of trucks x distance travelled x days of activity
Road Dust Emission Factor (lb/mi)	3.0	lb/mi	Please see Onsite Road (Dust) sheet
Total Emissions	**700**	lbs	Assumes 80% control for watering and soil stabilizers
Total Fugitive Dust Emissions	**827**	lbs	
Benzidine Concentration (UCL) in Soil	99	mg/kg	Please see UCL / Max Concentration calculations
Total Benzidine Emissions (lbs)	**8.187E-02**	lbs	

ASCON Health Risk Assessment

EMSOFT Model: Summary of Soil Parameters, Physical Constants, and Layer Properties

Table 40

Soil Parameters: Loam	Fraction Organic Carbon (dimensionless)	0.002
	Porosity (dimensionless)	0.399
	Water Content (dimensionless)	0.148
	Bulk Density (g/cm^3)	1.59
Physical Constants	Porewater Flux (cm/day)	0
	Boundary Layer Thickness (cm)	0.5
Layer Properties	Cover Thickness[a] (cm)	0
	Layer Thickness[b] (cm)	914.4

[a] *Contamination is assumed to begin at the surface during the soil removal activities.*

[b] *It is estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately five to 25 feet. As aconservative assessment, a layer thickness of 30 feet was assigned to the model.*

Sources: USEPA, User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings, (2004); USEPA, EMSOFT User's Guide: Update to EMSOFT User's Guide, (2002).

EMSOFT Model: Summary of Volatilization Factors - Alternative 4, Non-Pit F

Table 41

Compound	CAS Number	Volatilization Factors			
		Short-Term 0.1 Day Average (mg/cm^2-day)	Short-Term 1 Day Average (mg/cm^2-day)	Interim-Term 16 Day Average* (mg/cm^2-day)	Long-Term 164 Day Average* (mg/cm^2-day)
Non-Pit F					
Ethylbenzene	100-41-4	3.92E-02	1.25E-02	3.14E-03	9.83E-04
Styrene	100-42-5	2.24E-03	7.25E-04	1.82E-04	5.70E-05
n-Propylbenzene	103-65-1	2.18E-02	6.99E-03	1.75E-03	5.48E-04
n-Butylbenzene	104-51-8	1.98E-03	6.38E-04	1.60E-04	5.00E-05
P-XYLENE	106-42-3	2.50E-03	8.01E-04	2.01E-04	6.28E-05
1,2-Dibromoethane	106-93-4	1.11E-04	3.58E-05	9.02E-06	2.82E-06
M-XYLENE	108-38-3	2.66E-02	8.52E-03	2.14E-03	6.68E-04
1,3,5-Trimethylbenzene	108-67-8	7.58E-03	2.45E-03	6.17E-04	1.93E-04
Toluene	108-88-3	1.68E-02	5.38E-03	1.35E-03	4.21E-04
Chlorobenzene	108-90-7	7.83E-05	2.51E-05	6.29E-06	1.97E-06
Anthracene	120-12-7	1.61E-04	9.77E-05	3.46E-05	1.19E-05
1,2,4-Trichlorobenzene	120-82-1	5.26E-06	1.77E-06	4.52E-07	1.42E-07
Tetrachloroethene	127-18-4	7.25E-04	2.31E-04	5.79E-05	1.81E-05
Pyrene	129-00-0	2.14E-06	1.88E-06	1.20E-06	5.64E-07
XYLENES (TOTAL)	1330-20-7	1.31E-01	4.23E-02	1.06E-02	3.32E-03
(1-METHYLPROPYL)BENZENE	135-98-8	2.51E-03	8.42E-04	2.15E-04	6.73E-05
m,p-Xylenes	179601-23-1	3.28E-02	1.05E-02	2.63E-03	8.23E-04
2-Hexanone	591-78-6	4.62E-05	1.50E-05	3.79E-06	1.19E-06
2-PROPANONE	67-64-1	9.50E-04	3.10E-04	7.82E-05	2.45E-05
Benzene	71-43-2	5.65E-03	1.80E-03	4.51E-04	1.41E-04
Methylene Chloride	75-09-2	5.06E-04	1.61E-04	4.04E-05	1.26E-05
1,1-Dichloroethene	75-35-4	6.70E-04	2.13E-04	5.34E-05	1.61E-05
Trichlorofluoromethane	75-69-4	7.88E-03	2.51E-03	6.28E-04	1.93E-04
2-Butanone	78-93-3	1.80E-04	5.89E-05	1.49E-05	4.65E-06
1,1,2,2-Tetrachloroethane	79-34-5	4.63E-05	1.50E-05	3.78E-06	1.18E-06
Acenaphthene	83-32-9	1.64E-03	6.86E-04	1.91E-04	6.11E-05
Phenanthrene	85-01-8	9.93E-03	6.01E-03	2.13E-03	7.29E-04
Fluorene	86-73-7	4.27E-04	2.25E-04	7.11E-05	2.36E-05
1,2,3-Trichlorobenzene	87-61-6	5.98E-06	2.03E-06	5.19E-07	1.63E-07
Naphthalene	91-20-3	4.94E-03	1.69E-03	4.34E-04	1.36E-04
2-Methylnaphthalene	91-57-6	1.49E-02	5.22E-03	1.35E-03	4.25E-04
o-Xylene	95-47-6	6.10E-03	1.96E-03	4.90E-04	1.53E-04
1,2-Dichlorobenzene	95-50-1	5.82E-03	1.88E-03	4.74E-04	1.48E-04
1,2,4-Trimethylbenzene	95-63-6	2.26E-02	7.30E-03	1.84E-03	5.74E-04
1,2-Dibromo-3-Chloropropane	96-12-8	4.76E-05	1.57E-05	3.99E-06	1.25E-06
1-METHYLETHYLBENZENE	98-82-8	7.38E-02	2.35E-02	5.88E-03	1.70E-03

Source: PCR Services Corporation, 2013

* Inerim- and Long-term average factors are used to assess emissions from areas that would be covered by the cap and not yet backfilled/capped using volitalization factors based on the number of days between the start of the appropriate phases (i.e., On-site haul road associated with Phase 2 [approximately 16 days]; Phase 3.2 and the completion date of Phase 6 [approximately 164 days]).

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Henry's Law Properties

1	3	4	5	6	7	8	9			
CAS Number	**Chemical**	**Henry's Law at Reference Temperature H_R @ 25°C (atm-m^3/mol)**	**Normal Boiling Point T_B (K)**	**Normal Boiling Point t_b (°C)**	**Critical Temperature T_C (K)**	**Vapor Pressure at Reference Temperature VP @ 25°C (mmHg)**	**Enthalpy of Vaporization at T_B $\Delta H_{V,B}$ @ T_B (cal/mol)**	**$\Delta H_{V,B}$ Reference**	**Data Source**	**Notes**
100-41-4	Ethylbenzene	7.86E-03	409.34	136.19	617.2	9.58E+00	8,501	1	A,B	
100-42-5	Styrene	2.74E-03	418.31	145.16	636	6.24E+00	8,737	1	A,B	
103-65-1	n-Propylbenzene	1.07E-02	432.2	159.05	630	3.42E+00	9,123	1	A,D,E,F	
104-51-8	n-Butylbenzene	1.31E-02	456.46	183.31	660.5	1.06E+00	9,290	1	A,E,F	
106-42-3	p-Xylene	7.64E-03	411.52	138.37	616.2	8.89E+00	8,525	1	A,B	
106-93-4	1,2-Dibromoethane	7.41E-04	404.6	131.45	583	1.10E+01	8,310	1	A,C,F	
108-38-3	m-Xylene	7.32E-03	412.27	139.12	617.05	8.51E+00	8,523	1	A,B	
108-67-8	1,3,5-Trimethylbenzene	5.87E-03	437.89	164.74	637.25	2.48E+00	9,321	1	A,E,F	
108-88-3	Toluene	6.62E-03	383.78	110.63	591.79	2.82E+01	7,930	1	A,B	
108-90-7	Chlorobenzene	3.69E-03	404.87	131.72	632.4	1.21E+01	8,410	1	A,B	
120-12-7	Anthracene	6.51E-05	615.18	342.03	873	2.55E-05	13,121	3	B	
120-82-1	1,2,4-Trichlorobenzene	1.42E-03	486.15	213	725	3.36E-01	10,471	1	A,B	
127-18-4	Tetrachloroethylene	1.84E-02	394.4	121.25	620.2	1.84E+01	8,288	1	A,B	
129-00-0	Pyrene	1.10E-05	667.95	394.8	936	4.25E-06	14,370	1	A,B	
1330-20-7	Xylene	6.60E-03	413.15	140	619.73	8.00E+00	8,527	4	C,G	
135-98-8	(1-METHYLPROPYL)BENZENE	1.39E-02	446.5	173.35	679	1.75E+00	88,730	1	A,D,F	Also sec-Butylbenzene
179601-23-1	m,p-Xylenes	7.32E-03	412.27	139.12	617.05	8.51E+00	8,523	1	A,B	Assumed same properties as m-Xylene (CAS # 108-38-3)
591-78-6	2-Hexanone	9.32E-05	276.71	127.6	587.05	1.16E+01	8,694	4	D,E,F	Also Methyl n-butyl ketone
67-64-1	Acetone	3.87E-05	329.2	56.05	508.1	2.27E+02	6,955	1	A,B	
71-43-2	Benzene	5.54E-03	353.24	80.09	562.16	9.50E+01	7,342	1	A,B	
75-09-2	Methylene chloride	2.18E-03	313	39.85	510	3.70E+02	6,706	1	A,B	
75-15-0	Carbon disulfide	3.02E-02	319	45.85	552	3.40E+02	6,391	1	A,B	
75-35-4	1,1-Dichloroethylene	2.60E-02	304.75	31.6	576.05	5.99E+02	6,247	1	A,B	
75-69-4	Trichlorofluoromethane	9.68E-02	296.7	23.55	471	8.00E+02	5,999	1	A,C,F	
78-93-3	2-Butanone	5.58E-05	352.5	79.35	536.78	9.10E+01	7,481	1	A,C,F	Also Methyl ethyl ketone (MEK)
79-34-5	1,1,2,2-Tetrachloroethane	3.44E-04	419.6	146.45	661.15	5.17E+00	8,996	1	A,B	
83-32-9	Acenaphthene	1.55E-04	550.54	277.39	803.15	3.75E-03	12,155	1	A,B	
85-01-8	Phenanthrene	2.30E-05	613.15	340	869.15	1.10E-04	13,304	4	C,F	
86-73-7	Fluorene	6.34E-05	570.44	297.29	870	6.21E-04	12,666	1	A,B	
87-61-6	1,2,3-Trichlorobenzene	1.25E-03	491.65	218.5	737.48	2.10E-01	10,481	6	E,G	
91-20-3	Naphthalene	4.82E-04	491.14	217.99	748.4	8.89E-02	10,373	1	A,B	
91-57-6	2-Methylnaphthalene	5.17E-04	514.26	241.11	761	5.50E-02	12,600	1	A,C,F	
95-47-6	o-Xylene	5.18E-03	417.6	144.45	630.3	6.60E+00	8,661	1	A,B	
95-50-1	1,2-Dichlorobenzene	1.90E-03	453.57	180.42	705	1.36E+00	9,700	1	A,B	
95-63-6	1,2,4-Trimethylbenzene	6.14E-03	442.3	169.15	649.17	2.10E+00	9,369	1	A,D,F	
96-12-8	1,2-Dibromo-3-Chloropropane	1.50E-04	473.15	200	709.73	5.80E-01	9,961	6	C,G	
98-82-8	1-METHYLETHYLBENZENE	1.16E+00	425.56	152.41	631.10	4.50E+00	10,335	1	A,C,G	Also Cumene

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Henry's Law Properties

Data Sources:

A. DTSC, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm. Accessed February 2013.
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$\Delta H_{V,B}$ Reference:

1. DTSC, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm. Accessed February 2013.
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The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Equations:

$$K_{H,S} = \frac{exp\left[-\frac{\Delta H_{v,TS}}{R_c}\left(\frac{1}{T_S}-\frac{1}{T_R}\right)\right]H_R}{RT_S}$$ (Clausius-Clapeyron Relationship)

$$\Delta H_{v,TS} = \Delta H_{v,b}\left[\frac{(1-T_S/T_C)}{(1-T_B/T_C)}\right]^n$$

$$T_S = 4.646 + 0.986T_A$$

Source: USEPA, *EMSOFT User's Guide* , September 2002. Equations 23, 24, and 25.

Where:
$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;
T_S = Average soil temperature, K;
T_R = Henry's Law constant reference temperature, K;
H_R = Henry's Law constant at the reference temperature, atm-m^3/mol;
R_C = Gas constant (= 1.9872 cal/mol-K);
R = Gas constant (= 8.205 × 10^{-5} atm-m3/mol-K).

$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;
$\Delta H_{v,B}$ = Enthalpy of vaporization at the normal boiling point, cal/mol;
T_S = Average soil temperature, K;
T_C = Critical temperature, K;
T_B = Normal boiling point, K;
n = Exponent, unitless;
T_A = Mean monthly air temperature for one or more years, °F.

Calculation of Henry's Law at the Average Surface Temperature (Clausius-Clapeyron relationship)

1	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CAS Number	Chemical	Henry's Law at Average Soil Temperature (AST)[A] $K_{H,S}$ @ AST (dimensionless)	Enthalpy of Vaporization at the AST[B] $\Delta H_{V,TS}$ (cal/mol)	Enthalpy of Vaporization at the Normal Boiling Point[C] $\Delta H_{V,B}$ (cal/mol)	Critical Temp.[C] T_C (°K)	Normal Boiling Point[C] T_B (°K)	Ratio T_B/T_C	Exponent[D] n (unitless)	AST[E] T_S (°K)	Mean Monthly Air Temp.[F] T_A (°F)	Henry's Law Reference Temperature (RT) T_R (°K)	Henry's Law at the RT[G] H_R (atm-m^3/mol)	Gas Constant[H] R_C (cal/mol-°K)	Gas Constant[H] R (atm-m^3/mol-°K)
100-41-4	Ethylbenzene	2.28E-01	10,055	8,501	617.2	409.34	0.66	0.3748	291.9	61.9	298.15	7.86E-03	1.9872	8.21E-05
100-42-5	Styrene	7.86E-02	10,354	8,737	636	418.31	0.66	0.3707	291.9	61.9	298.15	2.74E-03	1.9872	8.21E-05
103-65-1	n-Propylbenzene	2.96E-01	11,255	9,123	630	432.2	0.69	0.3917	291.9	61.9	298.15	1.07E-02	1.9872	8.21E-05
104-51-8	n-Butylbenzene	3.58E-01	11,738	9,290	660.5	456.46	0.69	0.3954	291.9	61.9	298.15	1.31E-02	1.9872	8.21E-05
106-42-3	p-Xylene	2.21E-01	10,146	8,525	616.2	411.52	0.67	0.3782	291.9	61.9	298.15	7.64E-03	1.9872	8.21E-05
106-93-4	1,2-Dibromoethane	2.14E-02	10,096	8,310	583	404.6	0.69	0.3976	291.9	61.9	298.15	7.41E-04	1.9872	8.21E-05
108-38-3	m-Xylene	2.11E-01	10,153	8,523	617.05	412.27	0.67	0.3784	291.9	61.9	298.15	7.32E-03	1.9872	8.21E-05
108-67-8	1,3,5-Trimethylbenzene	1.61E-01	11,565	9,321	637.25	437.89	0.69	0.3925	291.9	61.9	298.15	5.87E-03	1.9872	8.21E-05
108-88-3	Toluene	1.99E-01	9,060	7,930	591.79	383.78	0.65	0.3639	291.9	61.9	298.15	6.62E-03	1.9872	8.21E-05
108-90-7	Chlorobenzene	1.08E-01	9,715	8,410	632.4	404.87	0.64	0.3578	291.9	61.9	298.15	3.69E-03	1.9872	8.21E-05
120-12-7	Anthracene	1.40E-03	18,242	13,121	873	615.18	0.70	0.4055	291.9	61.9	298.15	6.51E-05	1.9872	8.21E-05
120-82-1	1,2,4-Trichlorobenzene	3.67E-02	13,130	10,471	725	486.15	0.67	0.3802	291.9	61.9	298.15	1.42E-03	1.9872	8.21E-05
127-18-4	Tetrachloroethylene	5.43E-01	9,465	8,288	620.2	394.4	0.64	0.3546	291.9	61.9	298.15	1.84E-02	1.9872	8.21E-05
129-00-0	Pyrene	2.17E-04	20,586	14,370	936	667.95	0.71	0.4100	291.9	61.9	298.15	1.10E-05	1.9872	8.21E-05
1330-20-7	Xylene	1.91E-01	10,150	8,527	619.725	413.15	0.67	0.3773	291.9	61.9	298.15	6.60E-03	1.9872	8.21E-05
135-98-8	(1-METHYLPROPYL)BENZENE	1.17E-02	107,187	88,730	679	446.5	0.66	0.3706	291.9	61.9	298.15	1.39E-02	1.9872	8.21E-05
179601-23-1	m,p-Xylenes	2.11E-01	10,153	8,523	617.05	412.27	0.67	0.3784	291.9	61.9	298.15	7.32E-03	1.9872	8.21E-05
591-78-6	2-Hexanone	2.85E-03	8,564	8,694	587.05	276.71	0.47	0.3000	291.9	61.9	298.15	9.32E-05	1.9872	8.21E-05
67-64-1	Acetone	1.23E-03	7,451	6,955	508.1	329.2	0.65	0.3634	291.9	61.9	298.15	3.87E-05	1.9872	8.21E-05
71-43-2	Benzene	1.73E-01	8,033	7,342	562.16	353.24	0.63	0.3490	291.9	61.9	298.15	5.54E-03	1.9872	8.21E-05
75-09-2	Methylene chloride	7.09E-02	6,941	6,706	510	313	0.61	0.3382	291.9	61.9	298.15	2.18E-03	1.9872	8.21E-05
75-15-0	Carbon disulfide	9.92E-01	6,614	6,391	552	319	0.58	0.3116	291.9	61.9	298.15	3.02E-02	1.9872	8.21E-05
75-35-4	1,1-Dichloroethylene	8.63E-01	6,335	6,247	576.05	304.75	0.53	0.3000	291.9	61.9	298.15	2.60E-02	1.9872	8.21E-05
75-69-4	Trichlorofluoromethane	3.24E+00	6,057	5,999	471	296.7	0.63	0.3502	291.9	61.9	298.15	9.68E-02	1.9872	8.21E-05
78-93-3	2-Butanone	1.72E-03	8,311	7,481	536.78	352.5	0.66	0.3700	291.9	61.9	298.15	5.58E-05	1.9872	8.21E-05
79-34-5	1,1,2,2-Tetrachloroethane	9.83E-03	10,453	8,996	661.15	419.6	0.63	0.3536	291.9	61.9	298.15	3.44E-04	1.9872	8.21E-05
83-32-9	Acenaphthene	3.61E-03	16,016	12,155	803.15	550.54	0.69	0.3913	291.9	61.9	298.15	1.55E-04	1.9872	8.21E-05
85-01-8	Phenanthrene	4.90E-04	18,508	13,304	869.15	613.15	0.71	0.4060	291.9	61.9	298.15	2.30E-05	1.9872	8.21E-05
86-73-7	Fluorene	1.47E-03	16,146	12,666	870	570.44	0.66	0.3692	291.9	61.9	298.15	6.34E-05	1.9872	8.21E-05

Calculation of Henry's Law at the Average Surface Temperature (Clausius-Clapeyron relationship)

1	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CAS Number	Chemical	Henry's Law at Average Soil Temperature (AST)[A] $K_{H,S}$ @ AST (dimensionless)	Enthalpy of Vaporization at the AST[B] $\Delta H_{V,TS}$ (cal/mol)	Enthalpy of Vaporization at the Normal Boiling Point[C] $\Delta H_{V,B}$ (cal/mol)	Critical Temp.[C] T_C (°K)	Normal Boiling Point[C] T_B (°K)	Ratio T_B/T_C	Exponent[D] n (unitless)	AST[E] T_S (°K)	Mean Monthly Air Temp.[F] T_A (°F)	Henry's Law Reference Temperature (RT) T_R (°K)	Henry's Law at the RT[G] H_R (atm-m^3/mol)	Gas Constant[H] R_C (cal/mol-°K)	Gas Constant[H] R (atm-m^3/mol-°K)
87-61-6	1,2,3-Trichlorobenzene	3.24E-02	13,118	10,481	737.475	491.65	0.67	0.3773	291.9	61.9	298.15	1.25E-03	1.9872	8.21E-05
91-20-3	Naphthalene	1.26E-02	12,823	10,373	748.4	491.14	0.66	0.3696	291.9	61.9	298.15	4.82E-04	1.9872	8.21E-05
91-57-6	2-Methylnaphthalene	1.20E-02	16,127	12,600	761	514.26	0.68	0.3841	291.9	61.9	298.15	5.17E-04	1.9872	8.21E-05
95-47-6	o-Xylene	1.49E-01	10,305	8,661	630.3	417.6	0.66	0.3743	291.9	61.9	298.15	5.18E-03	1.9872	8.21E-05
95-50-1	1,2-Dichlorobenzene	5.19E-02	11,599	9,700	705	453.57	0.64	0.3601	291.9	61.9	298.15	1.90E-03	1.9872	8.21E-05
95-63-6	1,2,4-Trimethylbenzene	1.68E-01	11,583	9,369	649.17	442.3	0.68	0.3882	291.9	61.9	298.15	6.14E-03	1.9872	8.21E-05
96-12-8	1,2-Dibromo-3-Chloropropane	4.00E-03	12,346	9,961	709.725	473.15	0.67	0.3773	291.9	61.9	298.15	1.50E-04	1.9872	8.21E-05
98-82-8	1-METHYLETHYLBENZENE	3.06E+01	12,522	10,335	631.1	425.56	0.67	0.3830	291.9	61.9	298.15	1.16E+00	1.9872	8.21E-05

Sources:

A. Calculated value. USEPA, EMSOFT User's Guide, Equation 23, Page 25, September 2002.

B. Calculated value. USEPA, EMSOFT User's Guide, Equation 24, Page 25, September 2002.

C. USEPA, EMSOFT User's Guide, Table 3-1, Pages 32-34, September 2002.

D. Calculated value. USEPA, EMSOFT User's Guide, Table 3-1, Page 27, September 2002.

E. Calculated value. USEPA, EMSOFT User's Guide, Equation 25, Page 26, September 2002.

F. Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California (COOP ID 046175), NCDC 1981-2010 Monthly Normals. Available: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6175. Accessed 12/3/2012.

G. USEPA, EMSOFT User's Guide, Table 3-3, Pages 32-34, September 2002.

H. USEPA, EMSOFT User's Guide, Page 25, September 2002.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Chemical Input Properties for EMSOFT Model

1	3	4	5	6	7	8	9				
CAS Number	**Chemical**	**Organic Carbon Partition Coefficient K_{OC} (L/kg)**	**Air Diffusion Coefficient D'_A (cm^2/s)**	**Aqueous Diffusion Coefficient D'_W (cm^2/s)**	**Water Solubility (mg/L)**	**Henry's Law at Reference Temperature $K_{H,R}$ @ 25°C (dimensionless)**	**Henry's Law at Average Soil Temperature $K_{H,S}$ @ AST (dimensionless)**	**Data Source**	**Notes**	**Molecular Weight**	**Log K_{OW}**
100-41-4	Ethylbenzene	3.63E+02	7.50E-02	7.80E-06	1.69E+02	3.22E-01	2.28E-01	A			
100-42-5	Styrene	7.76E+02	7.10E-02	8.00E-06	3.10E+02	1.12E-01	7.86E-02	A			
103-65-1	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	2.96E-01	A	Molecular Weight (MW):	120.19	
104-51-8	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	3.58E-01	A	Molecular Weight (MW):	134.22	
106-42-3	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	2.21E-01	A			
106-93-4	1,2-Dibromoethane	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	2.14E-02	A	Molecular Weight (MW):	173.8	
108-38-3	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	2.11E-01	A			
108-67-8	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	1.61E-01	A			
108-88-3	Toluene	1.82E+02	8.70E-02	8.60E-06	5.26E+02	2.72E-01	1.99E-01	A			
108-90-7	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	1.08E-01	A			
120-12-7	Anthracene	2.95E+04	3.24E-02	7.74E-06	4.34E-02	2.67E-03	1.40E-03	B			
120-82-1	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	3.67E-02	A			
127-18-4	Tetrachloroethylene	1.55E+02	7.20E-02	8.20E-06	2.00E+02	7.53E-01	5.43E-01	A			
129-00-0	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	2.17E-04	A			
1330-20-7	Xylene	1.40E+03	8.47E-02	9.81E-06	1.10E+02	2.70E-01	1.91E-01	C,E,F	MW and Log K_{OW}:	106.2	3.2
135-98-8	(1-METHYLPROPYL)BENZENE	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.17E-02	A	Also sec-Butylbenzene; MW and Log K_{OW}:	134.22	4.57
179601-23-1	m,p-Xylenes	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	2.11E-01	A	Assumed same properties as m-Xylene (CAS # 108-38-3)		
591-78-6	2-Hexanone	2.27E+01	8.81E-02	1.02E-05	1.75E+04	3.81E-03	2.85E-03	D,E,F,G	Also Methyl n-butyl ketone; MW and Log K_{OW}:	100.16	1.38
67-64-1	Acetone	5.75E-01	1.24E-01	1.14E-05	1.00E+06	1.59E-03	1.23E-03	A			
71-43-2	Benzene	5.89E+01	8.80E-02	9.80E-06	1.79E+03	2.27E-01	1.73E-01	A			
75-09-2	Methylene chloride	1.17E+01	1.01E-01	1.17E-05	1.30E+04	8.96E-02	7.09E-02	A			
75-15-0	Carbon disulfide	4.57E+01	1.04E-01	1.00E-05	1.19E+03	1.24E+00	9.92E-01	A			
75-35-4	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	8.63E-01	A			
75-69-4	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	3.24E+00	A			
78-93-3	2-Butanone	2.30E+00	8.08E-02	9.80E-06	2.23E+05	2.29E-03	1.72E-03	A	Also Methyl ethyl ketone (MEK)		
79-34-5	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	9.83E-03	A			
83-32-9	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	3.61E-03	A			
85-01-8	Phenanthrene	1.88E+04	6.00E-02	6.95E-06	1.10E+00	9.40E-04	4.90E-04	C,D,E	Molecular Weight (MW):	178.22	
86-73-7	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	1.47E-03	A			
87-61-6	1,2,3-Trichlorobenzene	4.03E+03	5.93E-02	6.86E-06	1.80E+01	5.11E-02	3.24E-02	D,E	Molecular Weight (MW):	181.46	
91-20-3	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	1.26E-02	A			
91-57-6	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	1.20E-02	A	Molecular Weight (MW):	142.21	
95-47-6	o-Xylene	3.63E+02	8.70E-02	1.00E-05	1.78E+02	2.12E-01	1.49E-01	A			
95-50-1	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	5.19E-02	A			
95-63-6	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	1.68E-01	A	Molecular Weight (MW):	120.21	

Chemical Input Properties for EMSOFT Model

1	3	4	5	6	7	8	9				
CAS Number	**Chemical**	**Organic Carbon Partition Coefficient K_{OC} (L/kg)**	**Air Diffusion Coefficient D'_A (cm^2/s)**	**Aqueous Diffusion Coefficient D'_W (cm^2/s)**	**Water Solubility (mg/L)**	**Henry's Law at Reference Temperature $K_{H,R}$ @ 25°C (dimensionless)**	**Henry's Law at Average Soil Temperature $K_{H,S}$ @ AST (dimensionless)**	**Data Source**	**Notes**	**Molecular Weight**	**Log K_{OW}**
96-12-8	1,2-Dibromo-3-Chloropropane	1.02E+02	4.97E-02	5.75E-06	1.20E+03	6.13E-03	4.00E-03	C,D,E	Molecular Weight (MW):	236.36	
98-82-8	1-METHYLETHYLBENZENE	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	3.06E+01	A	Also Cumene		

Data Sources:

A. DTSC, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm. Accessed February 2013.

B. USEPA, *Soil Screening Guidance: User's Guide* , Second Edition, Attachment C: Chemical Properties for SSL Development, July 1996.

C. USEPA, *Superfund Chemical Data Matrix* , Appendix A - Chemical Data, Factor Values and Benchmarks for Chemical Substances, March 31, 2012.

D. Syracuse Research Corporation, CHEMFATE Chemical Search, http://www.srcinc.com/what-we-do/databaseforms.aspx?id=381. n.d. Accessed February 2013.

E. USEPA, Water9, Version 3.0, Air Emissions Models for Waste and Wastewater, June 2006. For diffusivity in air and water, if values were not available in USEPA Water9, Version 3.0 (2006), diffusivity factors were calculated using procedures set forth by: USEPA, Mercury Study Report to Congress, Volume III: Fate and Transport of Mercury in the Environment, EPA-452/R-97-005, December 1997.

$D'_A = 1.9 / (MW)^{2/3}$

$D'_W = 22\times10^{-5} / (MW)^{2/3}$

F. USEPA, Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Volume 2, Appendix A, September 2005. For certain compounds, K_{OC} was calculated from K_{OW} values using the equation:

$K_{OC} = 10^{(0.00028 + (0.983 \times \log K_{OW}))}$.

G. Syracuse Research Corporation, PhysProp Database, http://www.syrres.com/what-we-do/databaseforms.aspx?id=386. n.d. Accessed February 2013.

H. USEPA, Estimation Assessment Tools and Models, Estimation Program Interface (EPI) Suite, via ChemSpider online search, http://www.chemspider.com. Accessed February 2013.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Soil and Layer Input Properties for EMSOFT Model

	1	2	3	4	5	6	7	8	9	10	11
	Calculation Options			**Soil Properties**				**Physical Constants**		**Layer Properties**	
	Time Period for Averaging and Printing Flux and Soil Concentration Results* (days)	**Depth (D1) for Averaging Soil Concentration Results (cm)**	**Depth (D2) for Printing Soil Concentration Results (cm)**	**Fraction Organic Carbon[A,B] (dimensionless)**	**Fraction Porosity[A,B] (dimensionless)**	**Fraction Water Content[A,B] (dimensionless)**	**Bulk Density[A,B] (g/cm^3)**	**Porewater Flux (– = up, + = down)[C] (cm/day)**	**Boundary Layer Thickness[D] (cm)**	**Cover Thickness[E] (cm)**	**Layer Thickness[F] (cm)**
Sitewide (USEPA Screening Values for Loam)	[0.1 / 1 / 164] [16 / 101]	1	1	0.002	0.399	0.148	1.59	0.00	0.5	0	914.4

Note:

* Averaging periods were selected based on the estimated exposure duration of contaminated soil during implementation of the remedial action.

0.1 days: shortest duration supported by the EMSOFT model and used the represent the maximum hourly flux.

1 day: used to represent the maximum daily flux.

164 days: used to represent the flux from the stabilized surface (pit area at Lagoons 1 and 2) prior to backfilling and cap construction (Alternative 4 only); number of days between the start of Phase 3.2 and the completion date of Phase 6 (Alternative 4 only).

16 days: used to represent the flux from the new roadway surface (Alternative 4 only)

101 days: used to represent the flux from the new roadway surface (Alternative 6 only)

Data Sources:

A. USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings* , Table 11 – Guidance for Selection of Soil Type, (2004) 37. The soil parameters are based on a soil texture classification of "loam."

B. USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).

C. USEPA, *EMSOFT User's Guide* , Page 38, September 2002. "If no data are available, it would be conservative for the purpose of calculating long-term volatilization rates and soil concentrations to assume a porewater flux of zero."

D. USEPA, *EMSOFT User's Guide* , Page 43, September 2002. "A default boundary layer thickness that may be used in EMSOFT when no other data are available is 0.5 cm."

E. Assumes contamination begins at the surface.

F. The combined thickness of solid debris and waste materials throughout the site ranges from approximately five to 30 feet. This analysis uses 30 feet (914.4 cm) throughout the site.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	4	5	6	7	8	9	10	11
		Chemical Data							
		Organic Carbon Partition Coefficient	Henry's Law at Average Soil Temperature (AST)	Air Diffusion Coefficient		Aqueous Diffusion Coefficient		Halflife	Number of Layers of Contamination
		K_{OC}	$K_{H,S}$ @ AST	D'_A	D_A	D'_W	D_W	$t_{1/2}$	n
CAS Number	Chemical	(L/kg)	(dimensionless)	(cm^2/s)	(cm^2/day)	(cm^2/s)	(cm^2/day)	(days)	(dimensionless)
100-41-4	Ethylbenzene	3.63E+02	2.28E-01	7.50E-02	6.48E+03	7.80E-06	6.74E-01	1,000,000	1
100-42-5	Styrene	7.76E+02	7.86E-02	7.10E-02	6.13E+03	8.00E-06	6.91E-01	1,000,000	1
103-65-1	n-Propylbenzene	5.62E+02	2.96E-01	6.01E-02	5.19E+03	7.83E-06	6.77E-01	1,000,000	1
104-51-8	n-Butylbenzene	1.11E+03	3.58E-01	5.70E-02	4.92E+03	8.12E-06	7.02E-01	1,000,000	1
106-42-3	P-XYLENE	3.89E+02	2.21E-01	7.69E-02	6.64E+03	8.44E-06	7.29E-01	1,000,000	1
106-93-4	1,2-Dibromoethane	2.50E+01	2.14E-02	2.17E-02	1.87E+03	1.19E-05	1.03E+00	1,000,000	1
108-38-3	M-XYLENE	4.07E+02	2.11E-01	7.00E-02	6.05E+03	7.80E-06	6.74E-01	1,000,000	1
108-67-8	1,3,5-Trimethylbenzene	1.35E+03	1.61E-01	6.02E-02	5.20E+03	8.67E-06	7.49E-01	1,000,000	1
108-88-3	Toluene	1.82E+02	1.99E-01	8.70E-02	7.52E+03	8.60E-06	7.43E-01	1,000,000	1
108-90-7	Chlorobenzene	2.19E+02	1.08E-01	7.30E-02	6.31E+03	8.70E-06	7.52E-01	1,000,000	1
120-12-7	Anthracene	2.95E+04	1.40E-03	3.24E-02	2.80E+03	7.74E-06	6.69E-01	1,000,000	1
120-82-1	1,2,4-Trichlorobenzene	1.78E+03	3.67E-02	3.00E-02	2.59E+03	8.23E-06	7.11E-01	1,000,000	1
127-18-4	Tetrachloroethene	1.55E+02	5.43E-01	7.20E-02	6.22E+03	8.20E-06	7.08E-01	1,000,000	1
129-00-0	Pyrene	1.05E+05	2.17E-04	2.72E-02	2.35E+03	7.24E-06	6.26E-01	1,000,000	1
1330-20-7	XYLENES (TOTAL)	1.40E+03	1.91E-01	8.47E-02	7.32E+03	9.81E-06	8.48E-01	1,000,000	1
135-98-8	(1-METHYLPROPYL)BENZENE	9.66E+02	1.17E-02	5.70E-02	4.92E+03	8.12E-06	7.02E-01	1,000,000	1
179601-23-1	m,p-Xylenes	4.07E+02	2.11E-01	7.00E-02	6.05E+03	7.80E-06	6.74E-01	1,000,000	1
591-78-6	2-Hexanone	2.27E+01	2.85E-03	8.81E-02	7.61E+03	1.02E-05	8.81E-01	1,000,000	1
67-64-1	2-PROPANONE	5.75E-01	1.23E-03	1.24E-01	1.07E+04	1.14E-05	9.85E-01	1,000,000	1
71-43-2	Benzene	5.89E+01	1.73E-01	8.80E-02	7.60E+03	9.80E-06	8.47E-01	1,000,000	1
75-09-2	Methylene Chloride	1.17E+01	7.09E-02	1.01E-01	8.73E+03	1.17E-05	1.01E+00	1,000,000	1
75-35-4	1,1-Dichloroethene	5.89E+01	8.63E-01	9.00E-02	7.78E+03	1.04E-05	8.99E-01	1,000,000	1
75-69-4	Trichlorofluoromethane	4.97E+02	3.24E+00	8.70E-02	7.52E+03	9.70E-06	8.38E-01	1,000,000	1
78-93-3	2-Butanone	2.30E+00	1.72E-03	8.08E-02	6.98E+03	9.80E-06	8.47E-01	1,000,000	1
79-34-5	1,1,2,2-Tetrachloroethane	9.33E+01	9.83E-03	7.10E-02	6.13E+03	7.90E-06	6.83E-01	1,000,000	1
83-32-9	Acenaphthene	7.08E+03	3.61E-03	4.21E-02	3.64E+03	7.69E-06	6.64E-01	1,000,000	1
85-01-8	Phenanthrene	1.88E+04	4.90E-04	6.00E-02	5.18E+03	6.95E-06	6.00E-01	1,000,000	1
86-73-7	Fluorene	1.38E+04	1.47E-03	3.63E-02	3.14E+03	7.88E-06	6.81E-01	1,000,000	1
87-61-6	1,2,3-Trichlorobenzene	4.03E+03	3.24E-02	5.93E-02	5.12E+03	6.86E-06	5.93E-01	1,000,000	1
91-20-3	Naphthalene	2.00E+03	1.26E-02	5.90E-02	5.10E+03	7.50E-06	6.48E-01	1,000,000	1
91-57-6	2-Methylnaphthalene	2.81E+03	1.20E-02	5.22E-02	4.51E+03	7.75E-06	6.70E-01	1,000,000	1
95-47-6	o-Xylene	3.63E+02	1.49E-01	8.70E-02	7.52E+03	1.00E-05	8.64E-01	1,000,000	1
95-50-1	1,2-Dichlorobenzene	6.17E+02	5.19E-02	6.90E-02	5.96E+03	7.90E-06	6.83E-01	1,000,000	1
95-63-6	1,2,4-Trimethylbenzene	1.35E+03	1.68E-01	6.06E-02	5.24E+03	7.92E-06	6.84E-01	1,000,000	1
96-12-8	1,2-Dibromo-3-Chloropropane	1.02E+02	4.00E-03	4.97E-02	4.29E+03	5.75E-06	4.97E-01	1,000,000	1
98-82-8	1-METHYLETHYLBENZENE	4.89E+02	3.06E+01	6.50E-02	5.62E+03	7.10E-06	6.13E-01	1,000,000	1

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	12	13	14	15	16	17	18	19	20
		Calculation Options			Soil Properties				Physical Constraints	
CAS Number	Chemical	Depth (D2) for Printing Soil Concentration Results (days)	Time Period for Averaging and Printing Flux and Soil Concentration Results (days)	Depth (D1) for Averaging Soil Concentration Results (cm)	Fraction Organic Carbon (dimensionless)	Fraction Porosity (dimensionless)	Fraction Water Content (dimensionless)	Bulk Density (g/cm^3)	Porewater Flux (– = up, + = down) (cm/day)	Boundary Layer Thickness (cm)
100-41-4	Ethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
100-42-5	Styrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
103-65-1	n-Propylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
104-51-8	n-Butylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-42-3	P-XYLENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-93-4	1,2-Dibromoethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-38-3	M-XYLENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-67-8	1,3,5-Trimethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-88-3	Toluene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-90-7	Chlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
120-12-7	Anthracene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
120-82-1	1,2,4-Trichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
127-18-4	Tetrachloroethene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
129-00-0	Pyrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
1330-20-7	XYLENES (TOTAL)	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
135-98-8	(1-METHYLPROPYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
179601-23-1	m,p-Xylenes	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
591-78-6	2-Hexanone	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
67-64-1	2-PROPANONE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
71-43-2	Benzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-09-2	Methylene Chloride	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-35-4	1,1-Dichloroethene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-69-4	Trichlorofluoromethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
78-93-3	2-Butanone	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
79-34-5	1,1,2,2-Tetrachloroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
83-32-9	Acenaphthene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
85-01-8	Phenanthrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
86-73-7	Fluorene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
87-61-6	1,2,3-Trichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-20-3	Naphthalene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-57-6	2-Methylnaphthalene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-47-6	o-Xylene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-50-1	1,2-Dichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-63-6	1,2,4-Trimethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
98-82-8	1-METHYLETHYLBENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	21	22	23					
		Layer Properties			Volatilization Factors				
CAS Number	Chemical	Cover Thickness (cm)	Layer Thickness (cm)	Contaminant Concentration (UCL or Max) (mg/kg)	0.1 Day Average (mg/cm^2-day)	1 Day Average (mg/cm^2-day)	164 Day Average (mg/cm^2-day)	16 Day Average (mg/cm^2-day)	
100-41-4	Ethylbenzene	0	914.4	0.849	3.92E-02	1.25E-02	9.83E-04	3.14E-03	
100-42-5	Styrene	0	914.4	0.12	2.24E-03	7.25E-04	5.70E-05	1.82E-04	
103-65-1	n-Propylbenzene	0	914.4	0.564	2.18E-02	6.99E-03	5.48E-04	1.75E-03	
104-51-8	n-Butylbenzene	0	914.4	0.0659	1.98E-03	6.38E-04	5.00E-05	1.60E-04	
106-42-3	P-XYLENE	0	914.4	0.056	2.50E-03	8.01E-04	6.28E-05	2.01E-04	
106-93-4	1,2-Dibromoethane	0	914.4	0.0061	1.11E-04	3.58E-05	2.82E-06	9.02E-06	
108-38-3	M-XYLENE	0	914.4	0.65	2.66E-02	8.52E-03	6.68E-04	2.14E-03	
108-67-8	1,3,5-Trimethylbenzene	0	914.4	0.402	7.58E-03	2.45E-03	1.93E-04	6.17E-04	
108-88-3	Toluene	0	914.4	0.273	1.68E-02	5.38E-03	4.21E-04	1.35E-03	
108-90-7	Chlorobenzene	0	914.4	0.002	7.83E-05	2.51E-05	1.97E-06	6.29E-06	
120-12-7	Anthracene	0	914.4	1.7	1.61E-04	9.77E-05	1.19E-05	3.46E-05	
120-82-1	1,2,4-Trichlorobenzene	0	914.4	0.001	5.26E-06	1.77E-06	1.42E-07	4.52E-07	
127-18-4	Tetrachloroethene	0	914.4	0.0078	7.25E-04	2.31E-04	1.81E-05	5.79E-05	
129-00-0	Pyrene	0	914.4	0.471	2.14E-06	1.88E-06	5.64E-07	1.20E-06	
1330-20-7	XYLENES (TOTAL)	0	914.4	5.459	1.31E-01	4.23E-02	3.32E-03	1.06E-02	
135-98-8	(1-METHYLPROPYL)BENZENE	0	914.4	0.453	2.51E-03	8.42E-04	6.73E-05	2.15E-04	
179601-23-1	m,p-Xylenes	0	914.4	0.801	3.28E-02	1.05E-02	8.23E-04	2.63E-03	
591-78-6	2-Hexanone	0	914.4	0.0034	4.62E-05	1.50E-05	1.19E-06	3.79E-06	
67-64-1	2-PROPANONE	0	914.4	0.0764	9.50E-04	3.10E-04	2.45E-05	7.82E-05	Adjusted air diffusion coefficient to 10000 (EMSOFT limitation)
71-43-2	Benzene	0	914.4	0.0681	5.65E-03	1.80E-03	1.41E-04	4.51E-04	
75-09-2	Methylene Chloride	0	914.4	0.00651	5.06E-04	1.61E-04	1.26E-05	4.04E-05	
75-35-4	1,1-Dichloroethene	0	914.4	0.0043	6.70E-04	2.13E-04	1.61E-05	5.34E-05	
75-69-4	Trichlorofluoromethane	0	914.4	0.057	7.88E-03	2.51E-03	1.93E-04	6.28E-04	
78-93-3	2-Butanone	0	914.4	0.015	1.80E-04	5.89E-05	4.65E-06	1.49E-05	
79-34-5	1,1,2,2-Tetrachloroethane	0	914.4	0.0029	4.63E-05	1.50E-05	1.18E-06	3.78E-06	
83-32-9	Acenaphthene	0	914.4	2.3	1.64E-03	6.86E-04	6.11E-05	1.91E-04	
85-01-8	Phenanthrene	0	914.4	103.1	9.93E-03	6.01E-03	7.29E-04	2.13E-03	
86-73-7	Fluorene	0	914.4	2.1	4.27E-04	2.25E-04	2.36E-05	7.11E-05	
87-61-6	1,2,3-Trichlorobenzene	0	914.4	0.0013	5.98E-06	2.03E-06	1.63E-07	5.19E-07	
91-20-3	Naphthalene	0	914.4	1.237	4.94E-03	1.69E-03	1.36E-04	4.34E-04	
91-57-6	2-Methylnaphthalene	0	914.4	4.97	1.49E-02	5.22E-03	4.25E-04	1.35E-03	
95-47-6	o-Xylene	0	914.4	0.151	6.10E-03	1.96E-03	1.53E-04	4.90E-04	
95-50-1	1,2-Dichlorobenzene	0	914.4	0.35	5.82E-03	1.88E-03	1.48E-04	4.74E-04	
95-63-6	1,2,4-Trimethylbenzene	0	914.4	1.167	2.26E-02	7.30E-03	5.74E-04	1.84E-03	
96-12-8	1,2-Dibromo-3-Chloropropane	0	914.4	0.0059	4.76E-05	1.57E-05	1.25E-06	3.99E-06	
98-82-8	1-METHYLETHYLBENZENE	0	914.4	0.386	7.38E-02	2.35E-02	1.70E-03	5.88E-03	

Compound	CAS Number	Volatilization Factors Short-Term 0.1 Day Average (mg/cm^2-day)	Short-Term 1 Day Average (mg/cm^2-day)	Long-Term* 101 Day Average (mg/cm^2-day)
Non-Pit F				
Ethylbenzene	100-41-4	6.02E-01	1.93E-01	1.92E-02
Styrene	100-42-5	1.53E-01	4.94E-02	4.95E-03
2-PROPYL-1-HEPTANOL	10042-59-8	1.24E-02	5.26E-03	6.01E-04
n-Propylbenzene	103-65-1	6.20E-02	1.99E-02	1.98E-03
n-Butylbenzene	104-51-8	8.70E-03	2.80E-03	2.80E-04
P-XYLENE	106-42-3	1.74E-02	5.58E-03	5.57E-04
4-Chlorotoluene	106-43-4	1.88E-02	6.10E-03	6.12E-04
1,4-Dichlorobenzene	106-46-7	4.34E-03	1.40E-03	1.41E-04
1,2-Dibromoethane	106-93-4	1.11E-04	3.58E-05	3.59E-06
1,2-Dichloroethane	107-06-2	5.02E-01	1.61E-01	1.60E-02
M-XYLENE	108-38-3	1.10E+00	3.54E-01	3.53E-02
1,3,5-Trimethylbenzene	108-67-8	1.70E-02	5.48E-03	5.49E-04
Toluene	108-88-3	6.02E-02	1.92E-02	1.92E-03
Chlorobenzene	108-90-7	2.58E-01	8.28E-02	8.27E-03
Anthracene	120-12-7	7.59E-05	4.60E-05	7.03E-06
1,2,4-Trichlorobenzene	120-82-1	5.26E-06	1.77E-06	1.81E-07
Tetrachloroethene	127-18-4	7.25E-04	2.31E-04	2.30E-05
Pyrene	129-00-0	1.15E-06	1.01E-06	3.65E-07
Dibenzofuran	132-64-9	4.46E-06	3.98E-06	1.56E-06
XYLENES (TOTAL)	1330-20-7	1.19E-01	3.84E-02	3.84E-03
(1-METHYLPROPYL)BENZENE	135-98-8	3.93E-02	1.32E-02	1.34E-03
6-METHYL-1,1-HEPTANOL	1653-40-3	1.88E-01	6.27E-02	6.38E-03
m,p-Xylenes	179601-23-1	9.08E-02	2.91E-02	2.90E-03
(1,1-DIMETHYLBUTYL)BENZENE	1985-57-5	7.29E-02	2.35E-02	2.35E-03
(1,1-DIMETHYLPROPYL)BENZENE	2049-95-8	2.24E-01	7.22E-02	7.22E-03
6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	22531-20-0	4.16E-02	1.37E-02	1.38E-03
1-(1-METHYLETHENYL)-4-PROPYLBENZENE	22975-62-8	6.50E-02	2.10E-02	2.11E-03
ISOOCTANOL	26952-21-6	6.88E-02	2.30E-02	2.34E-03
(1-METHYLBUTYL)BENZENE	2719-52-0	1.48E-01	4.77E-02	4.77E-03
2-METHYLDECAHYDRONAPHTHALENE	2958-76-1	1.68E+00	5.37E-01	5.35E-02
1-METHYLETHYLCYCLOPENTANE	3875-51-2	8.49E-01	2.70E-01	2.59E-02
1-ETHYL-4-(1-METHYLETHYL)BENZENE	4218-48-8	6.35E-02	2.05E-02	2.05E-03
OCTAHYDROINDENE	496-10-6	4.24E+00	1.35E+00	1.34E-01
1,2,3,5-TETRAMETHYLBENZENE	527-53-7	1.91E-01	6.15E-02	6.15E-03
(1-PROPENYL)CYCLOHEXANE	5364-83-0	5.64E+00	1.80E+00	1.78E-01
4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	54340-86-2	2.91E-02	9.45E-03	9.48E-04
1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	5557-93-7	1.00E-01	3.27E-02	3.29E-03
2-Hexanone	591-78-6	4.62E-05	1.50E-05	1.51E-06
2-PROPANONE	67-64-1	2.36E-02	7.69E-03	7.74E-04
Chloroform	67-66-3	2.07E+00	6.59E-01	6.57E-02
Benzene	71-43-2	5.07E-02	1.62E-02	1.61E-03
1,1,1-Trichloroethane	71-55-6	1.39E+00	4.43E-01	4.41E-02
Methylene Chloride	75-09-2	6.45E-02	2.06E-02	2.05E-03
1,1-Dichloroethane	75-34-3	6.17E-02	1.97E-02	1.96E-03
1,1-Dichloroethene	75-35-4	6.70E-04	2.13E-04	2.11E-05
Trichlorofluoromethane	75-69-4	3.84E-02	1.22E-02	1.22E-03
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	6.24E-01	1.99E-01	1.99E-02
2-Butanone	78-93-3	6.47E-03	2.11E-03	2.13E-04
1,1,2,2-Tetrachloroethane	79-34-5	1.50E-03	4.87E-04	4.89E-05
Acenaphthene	83-32-9	1.48E-04	6.17E-05	6.98E-06
Phenanthrene	85-01-8	7.51E-03	4.54E-03	6.94E-04
Fluorene	86-73-7	2.55E-04	1.34E-04	1.78E-05

Compound	CAS Number	Volatilization Factors		
		Short-Term 0.1 Day Average (mg/cm^2-day)	Short-Term 1 Day Average (mg/cm^2-day)	Long-Term* 101 Day Average (mg/cm^2-day)
1,2,3-Trichlorobenzene	87-61-6	5.98E-06	2.03E-06	2.08E-07
DECAHYDRONAPHTHALENE	91-17-8	2.87E-01	1.96E-09	1.96E-09
Naphthalene	91-20-3	3.90E-02	1.34E-02	1.37E-03
2-Methylnaphthalene	91-57-6	1.27E-02	4.45E-03	4.61E-04
1,1,4-6-TETRAMETHYLINDANE	941-60-6	1.51E-02	5.02E-03	5.08E-04
o-Xylene	95-47-6	4.30E-02	1.38E-02	1.37E-03
1,2-Dichlorobenzene	95-50-1	2.59E-03	8.40E-04	8.43E-05
1,2,4-Trimethylbenzene	95-63-6	5.30E-02	1.71E-02	1.72E-03
1,2-Dibromo-3-Chloropropane	96-12-8	4.76E-05	1.57E-05	1.59E-06
tert-Butylbenzene	98-06-6	9.53E-05	3.06E-05	3.05E-06
1-METHYLETHYLBENZENE	98-82-8	1.52E+00	4.83E-01	4.68E-02

Source: PCR Services Corporation, 2013

* Long-term average factors are used to assess emissions from areas that would be active and not yet backfilled using volitalization factors based on the number of days between the start of the appropriate phases (i.e., On-site haul road associated with Phase 2 [approximately 101 days]).

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Henry's Law Properties

1	3	4	5	6	7	8	9			
CAS Number	**Chemical**	**Henry's Law at Reference Temperature H_R @ 25°C (atm-m^3/mol)**	**Normal Boiling Point T_B (K)**	**Normal Boiling Point t_b (°C)**	**Critical Temperature T_C (K)**	**Vapor Pressure at Reference Temperature VP @ 25°C (mmHg)**	**Enthalpy of Vaporization at T_B $\Delta H_{V,B}$ @ T_B (cal/mol)**	**$\Delta H_{V,B}$ Reference**	**Data Source**	**Notes**
100-41-4	Ethylbenzene	7.86E-03	409.34	136.19	617.2	9.58E+00	8,501	1	A,B	
100-42-5	Styrene	2.74E-03	418.31	145.16	636	6.24E+00	8,737	1	A,B	
10042-59-8	2-PROPYL-1-HEPTANOL	5.47E-05	490.65	217.5	735.98	1.36E-02	12,607	6	E,G	
103-65-1	n-Propylbenzene	1.07E-02	432.2	159.05	630	3.42E+00	9,123	1	A,D,E,F	
104-51-8	n-Butylbenzene	1.31E-02	456.46	183.31	660.5	1.06E+00	9,290	1	A,E,F	
106-42-3	p-Xylene	7.64E-03	411.52	138.37	616.2	8.89E+00	8,525	1	A,B	
106-43-4	4-Chlorotoluene	4.38E-03	435.55	162.4	653.33	2.69E+00	9,050	6	D,E,G	
106-46-7	1,4-Dichlorobenzene	2.39E-03	447.21	174.06	684.75	1.06E+00	9,271	1	A,B	
106-93-4	1,2-Dibromoethane	7.41E-04	404.6	131.45	583	1.10E+01	8,310	1	A,C,F	
107-06-2	1,2-Dichloroethane	9.77E-04	356.65	83.5	561	8.13E+01	7,643	1	A,B	
108-38-3	m-Xylene	7.32E-03	412.27	139.12	617.05	8.51E+00	8,523	1	A,B	
108-67-8	1,3,5-Trimethylbenzene	5.87E-03	437.89	164.74	637.25	2.48E+00	9,321	1	A,E,F	
108-88-3	Toluene	6.62E-03	383.78	110.63	591.79	2.82E+01	7,930	1	A,B	
108-90-7	Chlorobenzene	3.69E-03	404.87	131.72	632.4	1.21E+01	8,410	1	A,B	
120-12-7	Anthracene	6.51E-05	615.18	342.03	873	2.55E-05	13,121	3	B	
120-82-1	1,2,4-Trichlorobenzene	1.42E-03	486.15	213	725	3.36E-01	10,471	1	A,B	
127-18-4	Tetrachloroethylene	1.84E-02	394.4	121.25	620.2	1.84E+01	8,288	1	A,B	
129-00-0	Pyrene	1.10E-05	667.95	394.8	936	4.25E-06	14,370	1	A,B	
132-64-9	Dibenzofuran	1.26E-05	560	286.85	824.00	2.50E-03	66,400	1	A,C	
1330-20-7	Xylene	6.60E-03	413.15	140	619.73	8.00E+00	8,527	4	C,G	
135-98-8	(1-METHYLPROPYL)BENZENE	1.39E-02	446.5	173.35	679	1.75E+00	88,730	1	A,D,F	Also sec-Butylbenzene
1653-40-3	6-Methyl-1,1-heptanol	3.10E-05	461.15	188	691.73	1.51E-01	11,553	6	E,G	
179601-23-1	m,p-Xylenes	7.32E-03	412.27	139.12	617.05	8.51E+00	8,523	1	A,B	Assumed same properties as m-Xylene (CAS # 108-38-3)
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	2.45E-02	478.65	205.5	717.98	2.74E-01	10,120	6	E,G	
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.85E-02	465.55	192.4	698.33	5.26E-01	9,765	6	E,G	
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	7.47E-03	517.15	244	775.73	3.75E-02	11,086	6	E,G	
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	2.04E-02	491.42	218.27	737.13	1.43E-01	10,410	6	G,K	
26952-21-6	ISOOCTANOL	3.10E-05	461.67	188.52	692.51	1.95E+00	11,553	6	E,G,K	
2719-52-0	(1-METHYLBUTYL)BENZENE	1.85E-02	472.15	199	708.23	3.61E-01	9,809	6	E,G	
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	4.64E-01	467.25	194.1	700.88	6.84E-01	10,100	6	G,K	
3875-51-2	1-METHYLETHYLCYCLOPENTANE	5.60E-01	399.65	126.5	599.48	1.62E+01	8,016	6	E,G	
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.54E-02	469.75	196.6	704.63	4.27E-01	9,926	6	E,G	
496-10-6	OCTAHYDROINDENE	2.63E-01	440.15	167	660.23	2.40E+00	9,106	6	E,G	
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	7.99E-03	471.15	198	706.73	4.98E-01	9,974	6	E,G	
5364-83-0	(1-PROPENYL)CYCLOHEXANE	2.76E-01	432.42	159.27	648.63	3.40E+00	8,941	6	G,K	
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.49E-02	508.4	235.25	762.60	5.94E-02	10,754	6	G,K	
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	8.42E-03	484.74	211.59	727.11	2.01E-01	10,529	6	G,K	
591-78-6	2-Hexanone	9.32E-05	276.71	127.6	587.05	1.16E+01	8,694	4	D,E,F	Also Methyl n-butyl ketone
67-64-1	Acetone	3.87E-05	329.2	56.05	508.1	2.27E+02	6,955	1	A,B	
67-66-3	Chloroform	3.66E-03	334.32	61.17	536.4	2.04E+02	6,988	1	A,B	
71-43-2	Benzene	5.54E-03	353.24	80.09	562.16	9.50E+01	7,342	1	A,B	
71-55-6	1,1,1-Trichloroethane	1.72E-02	347.24	74.09	545	1.24E+02	7,136	1	A,B	
75-09-2	Methylene chloride	2.18E-03	313	39.85	510	3.70E+02	6,706	1	A,B	
75-15-0	Carbon disulfide	3.02E-02	319	45.85	552	3.40E+02	6,391	1	A,B	
75-34-3	1,1-Dichloroethane	5.61E-03	330.55	57.4	523	2.28E+02	6,895	1	A,B	

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Henry's Law Properties

1	3	4	5	6	7	8	9			
CAS Number	**Chemical**	**Henry's Law at Reference Temperature H_R @ 25°C (atm-m^3/mol)**	**Normal Boiling Point T_B (K)**	**Normal Boiling Point t_b (°C)**	**Critical Temperature T_C (K)**	**Vapor Pressure at Reference Temperature VP @ 25°C (mmHg)**	**Enthalpy of Vaporization at T_B $\Delta H_{V,B}$ @ T_B (cal/mol)**	**$\Delta H_{V,B}$ Reference**	**Data Source**	**Notes**
75-35-4	1,1-Dichloroethylene	2.60E-02	304.75	31.6	576.05	5.99E+02	6,247	1	A,B	
75-69-4	Trichlorofluoromethane	9.68E-02	296.7	23.55	471	8.00E+02	5,999	1	A,C,F	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.80E-01	320.7	47.55	487.3	3.32E+02	6,463	1	A,D	
78-93-3	2-Butanone	5.58E-05	352.5	79.35	536.78	9.10E+01	7,481	1	A,C,F	Also Methyl ethyl ketone (MEK)
79-34-5	1,1,2,2-Tetrachloroethane	3.44E-04	419.6	146.45	661.15	5.17E+00	8,996	1	A,B	
83-32-9	Acenaphthene	1.55E-04	550.54	277.39	803.15	3.75E-03	12,155	1	A,B	
85-01-8	Phenanthrene	2.30E-05	613.15	340	869.15	1.10E-04	13,304	4	C,F	
86-73-7	Fluorene	6.34E-05	570.44	297.29	870	6.21E-04	12,666	1	A,B	
87-61-6	1,2,3-Trichlorobenzene	1.25E-03	491.65	218.5	737.48	2.10E-01	10,481	6	E,G	
91-17-8	Decahydronaphthalene	4.70E-14	463.15	190	694.73	2.30E+00	9,783	6	D,G	
91-20-3	Naphthalene	4.82E-04	491.14	217.99	748.4	8.89E-02	10,373	1	A,B	
91-57-6	2-Methylnaphthalene	5.17E-04	514.26	241.11	761	5.50E-02	12,600	1	A,C,F	
941-60-6	1,1,4-6-Tetramethylindane	5.06E-03	514.45	241.3	771.68	2.97E-02	10,724	6	G,J	
95-47-6	o-Xylene	5.18E-03	417.6	144.45	630.3	6.60E+00	8,661	1	A,B	
95-50-1	1,2-Dichlorobenzene	1.90E-03	453.57	180.42	705	1.36E+00	9,700	1	A,B	
95-63-6	1,2,4-Trimethylbenzene	6.14E-03	442.3	169.15	649.17	2.10E+00	9,369	1	A,D,F	
96-12-8	1,2-Dibromo-3-Chloropropane	1.50E-04	473.15	200	709.73	5.80E-01	9,961	6	C,G	
98-06-6	tert-Butylbenzene	1.19E-02	442.1	168.95	1220.00	2.20E+00	8,980	1	A,E	
98-82-8	1-METHYLETHYLBENZENE	1.16E+00	425.56	152.41	631.10	4.50E+00	10,335	1	A,C,G	Also Cumene

Data Sources:

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F. Lange's Handbook of Chemistry 15th Ed., McGraw-Hill, (1999).
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$\Delta H_{V,B}$ Reference:

1. DTSC, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm. Accessed February 2013.
2. CRC Handbook of Chemistry and Physics, CRC Press, (1994).
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5. $\Delta H_{V,B}$ calculated from boiling point and vapor pressure using Equations and Tables in the USEPA, EMSOFT User's Guide (September 2002).
6. ACD/Labs, ACD/PhysChem Suite, via ChemSpider online search, http://www.chemspider.com. Accessed February 2013.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Equations:

$$K_{H,S} = \frac{exp\left[-\frac{\Delta H_{v,TS}}{R_c}\left(\frac{1}{T_S}-\frac{1}{T_R}\right)\right]H_R}{RT_S}$$ (Clausius-Clapeyron Relationship)

$$\Delta H_{v,TS} = \Delta H_{v,b}\left[\frac{(1-T_S/T_C)}{(1-T_B/T_C)}\right]^n$$

$$T_S = 4.646 + 0.986T_A$$

Source: USEPA, *EMSOFT User's Guide* , September 2002. Equations 23, 24, and 25.

Where:
$K_{H,S}$ = Henry's Law constant at the average soil temperature, dimensionless;
$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;
T_S = Average soil temperature, K;
T_R = Henry's Law constant reference temperature, K;
H_R = Henry's Law constant at the reference temperature, atm-m^3/mol;
R_C = Gas constant (= 1.9872 cal/mol-K);
R = Gas constant (= 8.205 × 10^{-5} atm-m3/mol-K).

$\Delta H_{v,TS}$ = Enthalpy of vaporization at the average soil temperature, cal/mol;
$\Delta H_{v,B}$ = Enthalpy of vaporization at the normal boiling point, cal/mol;
T_S = Average soil temperature, K;
T_C = Critical temperature, K;
T_B = Normal boiling point, K;
n = Exponent, unitless;
T_A = Mean monthly air temperature for one or more years, °F.

Calculation of Henry's Law at the Average Surface Temperature (Clausius-Clapeyron relationship)

1	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CAS Number	Chemical	Henry's Law at Average Soil Temperature (AST)[A] $K_{H,S}$ @ AST (dimensionless)	Enthalpy of Vaporization at the AST[B] $\Delta H_{V,TS}$ (cal/mol)	Enthalpy of Vaporization at the Normal Boiling Point[C] $\Delta H_{V,B}$ (cal/mol)	Critical Temp.[C] T_C (°K)	Normal Boiling Point[C] T_B (°K)	Ratio T_B/T_C	Exponent[D] n (unitless)	AST[E] T_S (°K)	Mean Monthly Air Temp.[F] T_A (°F)	Henry's Law Reference Temperature (RT) T_R (°K)	Henry's Law at the RT[G] H_R (atm-m^3/mol)	Gas Constant[H] R_C (cal/mol-°K)	Gas Constant[H] R (atm-m^3/mol-°K)
100-41-4	Ethylbenzene	2.28E-01	10,055	8,501	617.2	409.34	0.66	0.3748	291.9	61.9	298.15	7.86E-03	1.9872	8.21E-05
100-42-5	Styrene	7.86E-02	10,354	8,737	636	418.31	0.66	0.3707	291.9	61.9	298.15	2.74E-03	1.9872	8.21E-05
10042-59-8	2-PROPYL-1-HEPTANOL	1.29E-03	15,771	12,607	735.975	490.65	0.67	0.3773	291.9	61.9	298.15	5.47E-05	1.9872	8.21E-05
103-65-1	n-Propylbenzene	2.96E-01	11,255	9,123	630	432.2	0.69	0.3917	291.9	61.9	298.15	1.07E-02	1.9872	8.21E-05
104-51-8	n-Butylbenzene	3.58E-01	11,738	9,290	660.5	456.46	0.69	0.3954	291.9	61.9	298.15	1.31E-02	1.9872	8.21E-05
106-42-3	p-Xylene	2.21E-01	10,146	8,525	616.2	411.52	0.67	0.3782	291.9	61.9	298.15	7.64E-03	1.9872	8.21E-05
106-43-4	4-Chlorotoluene	1.23E-01	10,956	9,050	653.325	435.55	0.67	0.3773	291.9	61.9	298.15	4.38E-03	1.9872	8.21E-05
106-46-7	1,4-Dichlorobenzene	6.66E-02	11,153	9,271	684.75	447.21	0.65	0.3673	291.9	61.9	298.15	2.39E-03	1.9872	8.21E-05
106-93-4	1,2-Dibromoethane	2.14E-02	10,096	8,310	583	404.6	0.69	0.3976	291.9	61.9	298.15	7.41E-04	1.9872	8.21E-05
107-06-2	1,2-Dichloroethane	3.00E-02	8,427	7,643	561	356.65	0.64	0.3544	291.9	61.9	298.15	9.77E-04	1.9872	8.21E-05
108-38-3	m-Xylene	2.11E-01	10,153	8,523	617.05	412.27	0.67	0.3784	291.9	61.9	298.15	7.32E-03	1.9872	8.21E-05
108-67-8	1,3,5-Trimethylbenzene	1.61E-01	11,565	9,321	637.25	437.89	0.69	0.3925	291.9	61.9	298.15	5.87E-03	1.9872	8.21E-05
108-88-3	Toluene	1.99E-01	9,060	7,930	591.79	383.78	0.65	0.3639	291.9	61.9	298.15	6.62E-03	1.9872	8.21E-05
108-90-7	Chlorobenzene	1.08E-01	9,715	8,410	632.4	404.87	0.64	0.3578	291.9	61.9	298.15	3.69E-03	1.9872	8.21E-05
120-12-7	Anthracene	1.40E-03	18,242	13,121	873	615.18	0.70	0.4055	291.9	61.9	298.15	6.51E-05	1.9872	8.21E-05
120-82-1	1,2,4-Trichlorobenzene	3.67E-02	13,130	10,471	725	486.15	0.67	0.3802	291.9	61.9	298.15	1.42E-03	1.9872	8.21E-05
127-18-4	Tetrachloroethylene	5.43E-01	9,465	8,288	620.2	394.4	0.64	0.3546	291.9	61.9	298.15	1.84E-02	1.9872	8.21E-05
129-00-0	Pyrene	2.17E-04	20,586	14,370	936	667.95	0.71	0.4100	291.9	61.9	298.15	1.10E-05	1.9872	8.21E-05
132-64-9	Dibenzofuran	2.21E-05	87,087	66,400	824	560	0.68	0.3869	291.9	61.9	298.15	1.26E-05	1.9872	8.21E-05
1330-20-7	Xylene	1.91E-01	10,150	8,527	619.725	413.15	0.67	0.3773	291.9	61.9	298.15	6.60E-03	1.9872	8.21E-05
135-98-8	(1-METHYLPROPYL)BENZENE	1.17E-02	107,187	88,730	679	446.5	0.66	0.3706	291.9	61.9	298.15	1.39E-02	1.9872	8.21E-05
1653-40-3	6-Methyl-1,1-heptanol	7.72E-04	14,220	11,553	691.725	461.15	0.67	0.3773	291.9	61.9	298.15	3.10E-05	1.9872	8.21E-05
179601-23-1	m,p-Xylenes	2.11E-01	10,153	8,523	617.05	412.27	0.67	0.3784	291.9	61.9	298.15	7.32E-03	1.9872	8.21E-05
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	6.47E-01	12,581	10,120	717.975	478.65	0.67	0.3773	291.9	61.9	298.15	2.45E-02	1.9872	8.21E-05
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	4.98E-01	12,051	9,765	698.325	465.55	0.67	0.3773	291.9	61.9	298.15	1.85E-02	1.9872	8.21E-05
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.87E-01	14,043	11,086	775.725	517.15	0.67	0.3773	291.9	61.9	298.15	7.47E-03	1.9872	8.21E-05
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	5.30E-01	13,028	10,410	737.13	491.42	0.67	0.3773	291.9	61.9	298.15	2.04E-02	1.9872	8.21E-05
26952-21-6	ISOOCTANOL	7.72E-04	14,225	11,553	692.505	461.67	0.67	0.3773	291.9	61.9	298.15	3.10E-05	1.9872	8.21E-05
2719-52-0	(1-METHYLBUTYL)BENZENE	4.97E-01	12,151	9,809	708.225	472.15	0.67	0.3773	291.9	61.9	298.15	1.85E-02	1.9872	8.21E-05

Calculation of Henry's Law at the Average Surface Temperature (Clausius-Clapeyron relationship)

1	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CAS Number	Chemical	Henry's Law at Average Soil Temperature (AST)[A] $K_{H,S}$ @ AST (dimensionless)	Enthalpy of Vaporization at the AST[B] $\Delta H_{V,TS}$ (cal/mol)	Enthalpy of Vaporization at the Normal Boiling Point[C] $\Delta H_{V,B}$ (cal/mol)	Critical Temp.[C] T_C (°K)	Normal Boiling Point[C] T_B (°K)	Ratio T_B/T_C	Exponent[D] n (unitless)	AST[E] T_S (°K)	Mean Monthly Air Temp.[F] T_A (°F)	Henry's Law Reference Temperature (RT) T_R (°K)	Henry's Law at the RT[G] H_R (atm-m^3/mol)	Gas Constant[H] R_C (cal/mol-°K)	Gas Constant[H] R (atm-m^3/mol-°K)
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.23E+01	12,476	10,100	700.875	467.25	0.67	0.3773	291.9	61.9	298.15	4.64E-01	1.9872	8.21E-05
3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.66E+01	9,433	8,016	599.475	399.65	0.67	0.3773	291.9	61.9	298.15	5.60E-01	1.9872	8.21E-05
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	4.11E-01	12,279	9,926	704.625	469.75	0.67	0.3773	291.9	61.9	298.15	1.54E-02	1.9872	8.21E-05
496-10-6	OCTAHYDROINDENE	7.35E+00	11,059	9,106	660.225	440.15	0.67	0.3773	291.9	61.9	298.15	2.63E-01	1.9872	8.21E-05
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.13E-01	12,348	9,974	706.725	471.15	0.67	0.3773	291.9	61.9	298.15	7.99E-03	1.9872	8.21E-05
5364-83-0	(1-PROPENYL)CYCLOHEXANE	7.78E+00	10,801	8,941	648.63	432.42	0.67	0.3773	291.9	61.9	298.15	2.76E-01	1.9872	8.21E-05
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	3.80E-01	13,569	10,754	762.6	508.4	0.67	0.3773	291.9	61.9	298.15	1.49E-02	1.9872	8.21E-05
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.18E-01	13,131	10,529	727.11	484.74	0.67	0.3773	291.9	61.9	298.15	8.42E-03	1.9872	8.21E-05
591-78-6	2-Hexanone	2.85E-03	8,564	8,694	587.05	276.71	0.47	0.3000	291.9	61.9	298.15	9.32E-05	1.9872	8.21E-05
67-64-1	Acetone	1.23E-03	7,451	6,955	508.1	329.2	0.65	0.3634	291.9	61.9	298.15	3.87E-05	1.9872	8.21E-05
67-66-3	Chloroform	1.17E-01	7,464	6,988	536.4	334.32	0.62	0.3452	291.9	61.9	298.15	3.66E-03	1.9872	8.21E-05
71-43-2	Benzene	1.73E-01	8,033	7,342	562.16	353.24	0.63	0.3490	291.9	61.9	298.15	5.54E-03	1.9872	8.21E-05
71-55-6	1,1,1-Trichloroethane	5.40E-01	7,791	7,136	545	347.24	0.64	0.3555	291.9	61.9	298.15	1.72E-02	1.9872	8.21E-05
75-09-2	Methylene chloride	7.09E-02	6,941	6,706	510	313	0.61	0.3382	291.9	61.9	298.15	2.18E-03	1.9872	8.21E-05
75-15-0	Carbon disulfide	9.92E-01	6,614	6,391	552	319	0.58	0.3116	291.9	61.9	298.15	3.02E-02	1.9872	8.21E-05
75-34-3	1,1-Dichloroethane	1.79E-01	7,354	6,895	523	330.55	0.63	0.3517	291.9	61.9	298.15	5.61E-03	1.9872	8.21E-05
75-35-4	1,1-Dichloroethylene	8.63E-01	6,335	6,247	576.05	304.75	0.53	0.3000	291.9	61.9	298.15	2.60E-02	1.9872	8.21E-05
75-69-4	Trichlorofluoromethane	3.24E+00	6,057	5,999	471	296.7	0.63	0.3502	291.9	61.9	298.15	9.68E-02	1.9872	8.21E-05
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.56E+01	6,857	6,463	487.3	320.7	0.66	0.3710	291.9	61.9	298.15	4.80E-01	1.9872	8.21E-05
78-93-3	2-Butanone	1.72E-03	8,311	7,481	536.78	352.5	0.66	0.3700	291.9	61.9	298.15	5.58E-05	1.9872	8.21E-05
79-34-5	1,1,2,2-Tetrachloroethane	9.83E-03	10,453	8,996	661.15	419.6	0.63	0.3536	291.9	61.9	298.15	3.44E-04	1.9872	8.21E-05
83-32-9	Acenaphthene	3.61E-03	16,016	12,155	803.15	550.54	0.69	0.3913	291.9	61.9	298.15	1.55E-04	1.9872	8.21E-05
85-01-8	Phenanthrene	4.90E-04	18,508	13,304	869.15	613.15	0.71	0.4060	291.9	61.9	298.15	2.30E-05	1.9872	8.21E-05
86-73-7	Fluorene	1.47E-03	16,146	12,666	870	570.44	0.66	0.3692	291.9	61.9	298.15	6.34E-05	1.9872	8.21E-05
87-61-6	1,2,3-Trichlorobenzene	3.24E-02	13,118	10,481	737.475	491.65	0.67	0.3773	291.9	61.9	298.15	1.25E-03	1.9872	8.21E-05
91-17-8	Decahydronaphthalene	1.27E-12	12,056	9,783	694.725	463.15	0.67	0.3773	291.9	61.9	298.15	4.70E-14	1.9872	8.21E-05
91-20-3	Naphthalene	1.26E-02	12,823	10,373	748.4	491.14	0.66	0.3696	291.9	61.9	298.15	4.82E-04	1.9872	8.21E-05
91-57-6	2-Methylnaphthalene	1.20E-02	16,127	12,600	761	514.26	0.68	0.3841	291.9	61.9	298.15	5.17E-04	1.9872	8.21E-05
941-60-6	1,1,4-6-Tetramethylindane	1.29E-01	13,569	10,724	771.675	514.45	0.67	0.3773	291.9	61.9	298.15	5.06E-03	1.9872	8.21E-05
95-47-6	o-Xylene	1.49E-01	10,305	8,661	630.3	417.6	0.66	0.3743	291.9	61.9	298.15	5.18E-03	1.9872	8.21E-05
95-50-1	1,2-Dichlorobenzene	5.19E-02	11,599	9,700	705	453.57	0.64	0.3601	291.9	61.9	298.15	1.90E-03	1.9872	8.21E-05
95-63-6	1,2,4-Trimethylbenzene	1.68E-01	11,583	9,369	649.17	442.3	0.68	0.3882	291.9	61.9	298.15	6.14E-03	1.9872	8.21E-05
96-12-8	1,2-Dibromo-3-Chloropropane	4.00E-03	12,346	9,961	709.725	473.15	0.67	0.3773	291.9	61.9	298.15	1.50E-04	1.9872	8.21E-05
98-06-6	tert-Butylbenzene	3.51E-01	9,469	8,980	1220	442.1	0.36	0.3000	291.9	61.9	298.15	1.19E-02	1.9872	8.21E-05
98-82-8	1-METHYLETHYLBENZENE	3.06E+01	12,522	10,335	631.1	425.56	0.67	0.3830	291.9	61.9	298.15	1.16E+00	1.9872	8.21E-05

Sources:

A. Calculated value. USEPA, EMSOFT User's Guide, Equation 23, Page 25, September 2002.

B. Calculated value. USEPA, EMSOFT User's Guide, Equation 24, Page 25, September 2002.

C. USEPA, EMSOFT User's Guide, Table 3-1, Pages 32-34, September 2002.

D. Calculated value. USEPA, EMSOFT User's Guide, Table 3-1, Page 27, September 2002.

E. Calculated value. USEPA, EMSOFT User's Guide, Equation 25, Page 26, September 2002.

F. Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California (COOP ID 046175), NCDC 1981-2010 Monthly Normals. Available: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6175. Accessed 12/3/2012.

G. USEPA, EMSOFT User's Guide, Table 3-3, Pages 32-34, September 2002.

H. USEPA, EMSOFT User's Guide, Page 25, September 2002.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Chemical Input Properties for EMSOFT Model

1	3	4	5	6	7	8	9				
CAS Number	**Chemical**	**Organic Carbon Partition Coefficient K_{OC} (L/kg)**	**Air Diffusion Coefficient D'_A (cm^2/s)**	**Aqueous Diffusion Coefficient D'_W (cm^2/s)**	**Water Solubility (mg/L)**	**Henry's Law at Reference Temperature $K_{H,R}$ @ 25°C (dimensionless)**	**Henry's Law at Average Soil Temperature $K_{H,S}$ @ AST (dimensionless)**	**Data Source**	**Notes**	**Molecular Weight**	**Log K_{OW}**
100-41-4	Ethylbenzene	3.63E+02	7.50E-02	7.80E-06	1.69E+02	3.22E-01	2.28E-01	A			
100-42-5	Styrene	7.76E+02	7.10E-02	8.00E-06	3.10E+02	1.12E-01	7.86E-02	A			
103-65-1	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	2.96E-01	A	Molecular Weight (MW):	120.19	
104-51-8	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	3.58E-01	A	Molecular Weight (MW):	134.22	
106-42-3	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	2.21E-01	A			
106-93-4	1,2-Dibromoethane	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	2.14E-02	A	Molecular Weight (MW):	173.8	
108-38-3	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	2.11E-01	A			
108-67-8	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	1.61E-01	A			
108-88-3	Toluene	1.82E+02	8.70E-02	8.60E-06	5.26E+02	2.72E-01	1.99E-01	A			
108-90-7	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	1.08E-01	A			
120-12-7	Anthracene	2.95E+04	3.24E-02	7.74E-06	4.34E-02	2.67E-03	1.40E-03	B			
120-82-1	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	3.67E-02	A			
127-18-4	Tetrachloroethylene	1.55E+02	7.20E-02	8.20E-06	2.00E+02	7.53E-01	5.43E-01	A			
129-00-0	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	2.17E-04	A			
1330-20-7	Xylene	1.40E+03	8.47E-02	9.81E-06	1.10E+02	2.70E-01	1.91E-01	C,E,F	MW and Log K_{OW}:	106.2	3.2
135-98-8	(1-METHYLPROPYL)BENZENE	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.17E-02	A	Also sec-Butylbenzene; MW and Log K_{OW}:	134.22	4.57
179601-23-1	m,p-Xylenes	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	2.11E-01	A	Assumed same properties as m-Xylene (CAS # 108-38-3)		
591-78-6	2-Hexanone	2.27E+01	8.81E-02	1.02E-05	1.75E+04	3.81E-03	2.85E-03	D,E,F,G	Also Methyl n-butyl ketone; MW and Log K_{OW}:	100.16	1.38
67-64-1	Acetone	5.75E-01	1.24E-01	1.14E-05	1.00E+06	1.59E-03	1.23E-03	A			
71-43-2	Benzene	5.89E+01	8.80E-02	9.80E-06	1.79E+03	2.27E-01	1.73E-01	A			
75-09-2	Methylene chloride	1.17E+01	1.01E-01	1.17E-05	1.30E+04	8.96E-02	7.09E-02	A			
75-15-0	Carbon disulfide	4.57E+01	1.04E-01	1.00E-05	1.19E+03	1.24E+00	9.92E-01	A			
75-35-4	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	8.63E-01	A			
75-69-4	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	3.24E+00	A			
78-93-3	2-Butanone	2.30E+00	8.08E-02	9.80E-06	2.23E+05	2.29E-03	1.72E-03	A	Also Methyl ethyl ketone (MEK)		
79-34-5	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	9.83E-03	A			
83-32-9	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	3.61E-03	A			
85-01-8	Phenanthrene	1.88E+04	6.00E-02	6.95E-06	1.10E+00	9.40E-04	4.90E-04	C,D,E	Molecular Weight (MW):	178.22	
86-73-7	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	1.47E-03	A			
87-61-6	1,2,3-Trichlorobenzene	4.03E+03	5.93E-02	6.86E-06	1.80E+01	5.11E-02	3.24E-02	D,E	Molecular Weight (MW):	181.46	
91-20-3	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	1.26E-02	A			
91-57-6	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	1.20E-02	A	Molecular Weight (MW):	142.21	
95-47-6	o-Xylene	3.63E+02	8.70E-02	1.00E-05	1.78E+02	2.12E-01	1.49E-01	A			
95-50-1	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	5.19E-02	A			
95-63-6	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	1.68E-01	A	Molecular Weight (MW):	120.21	
96-12-8	1,2-Dibromo-3-Chloropropane	1.02E+02	4.97E-02	5.75E-06	1.20E+03	6.13E-03	4.00E-03	C,D,E	Molecular Weight (MW):	236.36	

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Chemical Input Properties for EMSOFT Model

1	3	4	5	6	7	8	9				
CAS Number	**Chemical**	**Organic Carbon Partition Coefficient K_{OC} (L/kg)**	**Air Diffusion Coefficient D'_A (cm^2/s)**	**Aqueous Diffusion Coefficient D'_W (cm^2/s)**	**Water Solubility (mg/L)**	**Henry's Law at Reference Temperature $K_{H,R}$ @ 25°C (dimensionless)**	**Henry's Law at Average Soil Temperature $K_{H,S}$ @ AST (dimensionless)**	**Data Source**	**Notes**	**Molecular Weight**	**Log K_{OW}**
98-82-8	1-METHYLETHYLBENZENE	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	3.06E+01	A	Also Cumene		

Data Sources:

A. DTSC, Johnson & Ettinger Models, Chemical Properties Lookup Table, December 2011, http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm. Accessed February 2013.

B. USEPA, *Soil Screening Guidance: User's Guide* , Second Edition, Attachment C: Chemical Properties for SSL Development, July 1996.

C. USEPA, *Superfund Chemical Data Matrix* , Appendix A - Chemical Data, Factor Values and Benchmarks for Chemical Substances, March 31, 2012.

D. Syracuse Research Corporation, CHEMFATE Chemical Search, http://www.srcinc.com/what-we-do/databaseforms.aspx?id=381. n.d. Accessed February 2013.

E. USEPA, Water9, Version 3.0, Air Emissions Models for Waste and Wastewater, June 2006. For diffusivity in air and water, if values were not available in USEPA Water9, Version 3.0 (2006), diffusivity factors were calculated using procedures set forth by: USEPA, Mercury Study Report to Congress, Volume III: Fate and Transport of Mercury in the Environment, EPA-452/R-97-005, December 1997.

$D'_A = 1.9 / (MW)^{2/3}$

$D'_W = 22\times10^{-5} / (MW)^{2/3}$

F. USEPA, Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Volume 2, Appendix A, September 2005. For certain compounds, K_{OC} was calculated from K_{OW} values using the equation:

$K_{OC} = 10^{(0.00028 + (0.983 \times \log K_{OW}))}$.

G. Syracuse Research Corporation, PhysProp Database, http://www.syrres.com/what-we-do/databaseforms.aspx?id=386. n.d. Accessed February 2013.

H. USEPA, Estimation Assessment Tools and Models, Estimation Program Interface (EPI) Suite, via ChemSpider online search, http://www.chemspider.com. Accessed February 2013.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Soil and Layer Input Properties for EMSOFT Model

	1	2	3	4	5	6	7	8	9	10	11
	Calculation Options			**Soil Properties**				**Physical Constants**		**Layer Properties**	
	Time Period for Averaging and Printing Flux and Soil Concentration Results* **(days)**	**Depth (D1) for Averaging Soil Concentration Results** **(cm)**	**Depth (D2) for Printing Soil Concentration Results** **(cm)**	**Fraction Organic Carbon[A,B]** **(dimensionless)**	**Fraction Porosity[A,B]** **(dimensionless)**	**Fraction Water Content[A,B]** **(dimensionless)**	**Bulk Density[A,B]** **(g/cm^3)**	**Porewater Flux (– = up, + = down)[C]** **(cm/day)**	**Boundary Layer Thickness[D]** **(cm)**	**Cover Thickness[E]** **(cm)**	**Layer Thickness[F]** **(cm)**
Sitewide (USEPA Screening Values for Loam)	[0.1 / 1 / 164] [16 / 101]	1	1	0.002	0.399	0.148	1.59	0.00	0.5	0	914.4

Note:

* Averaging periods were selected based on the estimated exposure duration of contaminated soil during implementation of the remedial action.

0.1 days: shortest duration supported by the EMSOFT model and used the represent the maximum hourly flux.

1 day: used to represent the maximum daily flux.

164 days: used to represent the flux from the stabilized surface (pit area at Lagoons 1 and 2) prior to backfilling and cap construction (Alternative 4 only); number of days between the start of Phase 3.2 and the completion date of Phase 6 (Alternative 4 only).

16 days: used to represent the flux from the new roadway surface (Alternative 4 only)

101 days: used to represent the flux from the new roadway surface (Alternative 6 only)

Data Sources:

A. USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings* , Table 11 – Guidance for Selection of Soil Type, (2004) 37. The soil parameters are based on a soil texture classification of "loam."

B. USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).

C. USEPA, *EMSOFT User's Guide* , Page 38, September 2002. "If no data are available, it would be conservative for the purpose of calculating long-term volatilization rates and soil concentrations to assume a porewater flux of zero."

D. USEPA, *EMSOFT User's Guide* , Page 43, September 2002. "A default boundary layer thickness that may be used in EMSOFT when no other data are available is 0.5 cm."

E. Assumes contamination begins at the surface.

F. The combined thickness of solid debris and waste materials throughout the site ranges from approximately five to 30 feet. This analysis uses 30 feet (914.4 cm) throughout the site.

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	4	5	6	7	8	9	10	11
		Chemical Data							
		Organic Carbon Partition Coefficient	Henry's Law at Average Soil Temperature (AST)	Air Diffusion Coefficient		Aqueous Diffusion Coefficient		Halflife	Number of Layers of Contamination
CAS Number	Chemical	K_{OC} (L/kg)	$K_{H,S}$ @ AST (dimensionless)	$D_{I,A}'$ (cm^2/s)	$D_{I,A}$ (cm^2/day)	$D_{I,W}'$ (cm^2/s)	$D_{I,W}$ (cm^2/day)	$t_{1/2}$ (days)	n (dimensionless)
100-41-4	Ethylbenzene	3.63E+02	2.28E-01	7.50E-02	6.48E+03	7.80E-06	6.74E-01	1.00E+06	1
100-42-5	Styrene	7.76E+02	7.86E-02	7.10E-02	6.13E+03	8.00E-06	6.91E-01	1.00E+06	1
10042-59-8	2-PROPYL-1-HEPTANOL	4.44E+03	1.29E-03	6.49E-02	5.61E+03	7.52E-06	6.50E-01	1.00E+06	1
103-65-1	n-Propylbenzene	5.62E+02	2.96E-01	6.01E-02	5.19E+03	7.83E-06	6.77E-01	1.00E+06	1
104-51-8	n-Butylbenzene	1.11E+03	3.58E-01	5.70E-02	4.92E+03	8.12E-06	7.02E-01	1.00E+06	1
106-42-3	P-XYLENE	3.89E+02	2.21E-01	7.69E-02	6.64E+03	8.44E-06	7.29E-01	1.00E+06	1
106-43-4	4-Chlorotoluene	1.88E+03	1.23E-01	7.54E-02	6.51E+03	8.73E-06	7.54E-01	1.00E+06	1
106-46-7	1,4-Dichlorobenzene	6.17E+02	6.66E-02	6.90E-02	5.96E+03	7.90E-06	6.83E-01	1.00E+06	1
106-93-4	1,2-Dibromoethane	2.50E+01	2.14E-02	2.17E-02	1.87E+03	1.19E-05	1.03E+00	1.00E+06	1
107-06-2	1,2-Dichloroethane	1.74E+01	3.00E-02	1.04E-01	8.99E+03	9.90E-06	8.55E-01	1.00E+06	1
108-38-3	M-XYLENE	4.07E+02	2.11E-01	7.00E-02	6.05E+03	7.80E-06	6.74E-01	1.00E+06	1
108-67-8	1,3,5-Trimethylbenzene	1.35E+03	1.61E-01	6.02E-02	5.20E+03	8.67E-06	7.49E-01	1.00E+06	1
108-88-3	Toluene	1.82E+02	1.99E-01	8.70E-02	7.52E+03	8.60E-06	7.43E-01	1.00E+06	1
108-90-7	Chlorobenzene	2.19E+02	1.08E-01	7.30E-02	6.31E+03	8.70E-06	7.52E-01	1.00E+06	1
120-12-7	Anthracene	2.95E+04	1.40E-03	3.24E-02	2.80E+03	7.74E-06	6.69E-01	1.00E+06	1
120-82-1	1,2,4-Trichlorobenzene	1.78E+03	3.67E-02	3.00E-02	2.59E+03	8.23E-06	7.11E-01	1.00E+06	1
127-18-4	Tetrachloroethene	1.55E+02	5.43E-01	7.20E-02	6.22E+03	8.20E-06	7.08E-01	1.00E+06	1
129-00-0	Pyrene	1.05E+05	2.17E-04	2.72E-02	2.35E+03	7.24E-06	6.26E-01	1.00E+06	1
132-64-9	Dibenzofuran	5.15E+03	2.21E-05	2.38E-02	2.06E+03	6.00E-06	5.18E-01	1.00E+06	1
1330-20-7	XYLENES (TOTAL)	1.40E+03	1.91E-01	8.47E-02	7.32E+03	9.81E-06	8.48E-01	1.00E+06	1
135-98-8	(1-METHYLPROPYL)BENZENE	9.66E+02	1.17E-02	5.70E-02	4.92E+03	8.12E-06	7.02E-01	1.00E+06	1
1653-40-3	6-METHYL-1,1-HEPTANOL	2.37E+01	7.72E-04	7.40E-02	6.39E+03	8.56E-06	7.40E-01	1.00E+06	1
179601-23-1	m,p-Xylenes	4.07E+02	2.11E-01	7.00E-02	6.05E+03	7.80E-06	6.74E-01	1.00E+06	1
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	4.33E+03	6.47E-01	6.39E-02	5.52E+03	7.39E-06	6.39E-01	1.00E+06	1
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.35E+03	4.98E-01	6.78E-02	5.86E+03	7.85E-06	6.79E-01	1.00E+06	1
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	5.75E+03	1.87E-01	6.44E-02	5.56E+03	7.46E-06	6.44E-01	1.00E+06	1
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	4.72E+03	5.30E-01	6.39E-02	5.52E+03	7.39E-06	6.39E-01	1.00E+06	1
26952-21-6	ISOOCTANOL	2.37E+01	7.72E-04	7.40E-02	6.39E+03	8.56E-06	7.40E-01	1.00E+06	1
2719-52-0	(1-METHYLBUTYL)BENZENE	2.91E+03	4.97E-01	6.78E-02	5.86E+03	7.85E-06	6.79E-01	1.00E+06	1
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	2.98E+03	1.23E+01	6.66E-02	5.76E+03	7.71E-06	6.67E-01	1.00E+06	1
3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.43E+02	1.66E+01	8.17E-02	7.06E+03	9.46E-06	8.17E-01	1.00E+06	1
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.56E+03	4.11E-01	6.78E-02	5.86E+03	7.85E-06	6.79E-01	1.00E+06	1
496-10-6	OCTAHYDROINDENE	9.96E+02	7.35E+00	7.63E-02	6.59E+03	8.84E-06	7.63E-01	1.00E+06	1
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.19E+03	2.13E-01	7.25E-02	6.26E+03	8.39E-06	7.25E-01	1.00E+06	1
5364-83-0	(1-PROPENYL)CYCLOHEXANE	9.55E+02	7.78E+00	7.63E-02	6.59E+03	8.84E-06	7.63E-01	1.00E+06	1
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	4.72E+03	3.80E-01	6.44E-02	5.56E+03	7.46E-06	6.44E-01	1.00E+06	1
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	4.12E+03	2.18E-01	6.44E-02	5.56E+03	7.46E-06	6.44E-01	1.00E+06	1

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	4	5	6	7	8	9	10	11
		Chemical Data							
		Organic Carbon Partition Coefficient	Henry's Law at Average Soil Temperature (AST)	Air Diffusion Coefficient		Aqueous Diffusion Coefficient		Halflife	Number of Layers of Contamination
CAS Number	Chemical	K_{OC} (L/kg)	$K_{H,S}$ @ AST (dimensionless)	$D_{I,A}'$ (cm^2/s)	$D_{I,A}$ (cm^2/day)	$D_{I,W}'$ (cm^2/s)	$D_{I,W}$ (cm^2/day)	$t_{1/2}$ (days)	n (dimensionless)
591-78-6	2-Hexanone	2.27E+01	2.85E-03	8.81E-02	7.61E+03	1.02E-05	8.81E-01	1.00E+06	1
67-64-1	2-PROPANONE	5.75E-01	1.23E-03	1.24E-01	1.07E+04	1.14E-05	9.85E-01	1.00E+06	1
67-66-3	Chloroform	3.98E+01	1.17E-01	1.04E-01	8.99E+03	1.00E-05	8.64E-01	1.00E+06	1
71-43-2	Benzene	5.89E+01	1.73E-01	8.80E-02	7.60E+03	9.80E-06	8.47E-01	1.00E+06	1
71-55-6	1,1,1-Trichloroethane	1.10E+02	5.40E-01	7.80E-02	6.74E+03	8.80E-06	7.60E-01	1.00E+06	1
75-09-2	Methylene Chloride	1.17E+01	7.09E-02	1.01E-01	8.73E+03	1.17E-05	1.01E+00	1.00E+06	1
75-34-3	1,1-Dichloroethane	3.16E+01	1.79E-01	7.42E-02	6.41E+03	1.05E-05	9.07E-01	1.00E+06	1
75-35-4	1,1-Dichloroethene	5.89E+01	8.63E-01	9.00E-02	7.78E+03	1.04E-05	8.99E-01	1.00E+06	1
75-69-4	Trichlorofluoromethane	4.97E+02	3.24E+00	8.70E-02	7.52E+03	9.70E-06	8.38E-01	1.00E+06	1
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.11E+04	1.56E+01	7.80E-02	6.74E+03	8.20E-06	7.08E-01	1.00E+06	1
78-93-3	2-Butanone	2.30E+00	1.72E-03	8.08E-02	6.98E+03	9.80E-06	8.47E-01	1.00E+06	1
79-34-5	1,1,2,2-Tetrachloroethane	9.33E+01	9.83E-03	7.10E-02	6.13E+03	7.90E-06	6.83E-01	1.00E+06	1
83-32-9	Acenaphthene	7.08E+03	3.61E-03	4.21E-02	3.64E+03	7.69E-06	6.64E-01	1.00E+06	1
85-01-8	Phenanthrene	1.88E+04	4.90E-04	6.00E-02	5.18E+03	6.95E-06	6.00E-01	1.00E+06	1
86-73-7	Fluorene	1.38E+04	1.47E-03	3.63E-02	3.14E+03	7.88E-06	6.81E-01	1.00E+06	1
87-61-6	1,2,3-Trichlorobenzene	4.03E+03	3.24E-02	5.93E-02	5.12E+03	6.86E-06	5.93E-01	1.00E+06	1
91-17-8	DECAHYDRONAPHTHALENE	4.66E+03	1.27E-12	7.11E-02	6.14E+03	8.23E-06	7.11E-01	1.00E+06	1
91-20-3	Naphthalene	2.00E+03	1.26E-02	5.90E-02	5.10E+03	7.50E-06	6.48E-01	1.00E+06	1
91-57-6	2-Methylnaphthalene	2.81E+03	1.20E-02	5.22E-02	4.51E+03	7.75E-06	6.70E-01	1.00E+06	1
941-60-6	1,1,4-6-TETRAMETHYLINDANE	6.55E+03	1.29E-01	6.09E-02	5.26E+03	7.05E-06	6.09E-01	1.00E+06	1
95-47-6	o-Xylene	3.63E+02	1.49E-01	8.70E-02	7.52E+03	1.00E-05	8.64E-01	1.00E+06	1
95-50-1	1,2-Dichlorobenzene	6.17E+02	5.19E-02	6.90E-02	5.96E+03	7.90E-06	6.83E-01	1.00E+06	1
95-63-6	1,2,4-Trimethylbenzene	1.35E+03	1.68E-01	6.06E-02	5.24E+03	7.92E-06	6.84E-01	1.00E+06	1
96-12-8	1,2-Dibromo-3-Chloropropane	1.02E+02	4.00E-03	4.97E-02	4.29E+03	5.75E-06	4.97E-01	1.00E+06	1
98-06-6	tert-Butylbenzene	7.71E+02	3.51E-01	5.65E-02	4.88E+03	8.02E-06	6.93E-01	1.00E+06	1
98-82-8	1-METHYLETHYLBENZENE	4.89E+02	3.06E+01	6.50E-02	5.62E+03	7.10E-06	6.13E-01	1.00E+06	1

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	12	13	14	15	16	17	18	19	20
		Calculation Options			Soil Properties				Physical Constraints	
CAS Number	Chemical	Depth (D2) for Printing Soil Concentration Results (days)	Time Period for Averaging and Printing Flux and Soil Concentration Results (days)	Depth (D1) for Averaging Soil Concentration Results (cm)	Fraction Organic Carbon (dimensionless)	Fraction Porosity (dimensionless)	Fraction Water Content (dimensionless)	Bulk Density (g/cm^3)	Porewater Flux (– = up, + = down) (cm/day)	Boundary Layer Thickness (cm)
100-41-4	Ethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
100-42-5	Styrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
10042-59-8	2-PROPYL-1-HEPTANOL	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
103-65-1	n-Propylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
104-51-8	n-Butylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-42-3	P-XYLENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-43-4	4-Chlorotoluene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-46-7	1,4-Dichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
106-93-4	1,2-Dibromoethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
107-06-2	1,2-Dichloroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-38-3	M-XYLENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-67-8	1,3,5-Trimethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-88-3	Toluene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
108-90-7	Chlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
120-12-7	Anthracene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
120-82-1	1,2,4-Trichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
127-18-4	Tetrachloroethene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
129-00-0	Pyrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
132-64-9	Dibenzofuran	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
1330-20-7	XYLENES (TOTAL)	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
135-98-8	(1-METHYLPROPYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
1653-40-3	6-METHYL-1,1-HEPTANOL	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
179601-23-1	m,p-Xylenes	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
26952-21-6	ISOOCTANOL	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
2719-52-0	(1-METHYLBUTYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
3875-51-2	1-METHYLETHYLCYCLOPENTANE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
496-10-6	OCTAHYDROINDENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
5364-83-0	(1-PROPENYL)CYCLOHEXANE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	12	13	14	15	16	17	18	19	20
		Calculation Options			Soil Properties				Physical Constraints	
CAS Number	Chemical	Depth (D2) for Printing Soil Concentration Results (days)	Time Period for Averaging and Printing Flux and Soil Concentration Results (days)	Depth (D1) for Averaging Soil Concentration Results (cm)	Fraction Organic Carbon (dimensionless)	Fraction Porosity (dimensionless)	Fraction Water Content (dimensionless)	Bulk Density (g/cm^3)	Porewater Flux (– = up, + = down) (cm/day)	Boundary Layer Thickness (cm)
591-78-6	2-Hexanone	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
67-64-1	2-PROPANONE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
67-66-3	Chloroform	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
71-43-2	Benzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
71-55-6	1,1,1-Trichloroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-09-2	Methylene Chloride	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-34-3	1,1-Dichloroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-35-4	1,1-Dichloroethene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-69-4	Trichlorofluoromethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
78-93-3	2-Butanone	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
79-34-5	1,1,2,2-Tetrachloroethane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
83-32-9	Acenaphthene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
85-01-8	Phenanthrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
86-73-7	Fluorene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
87-61-6	1,2,3-Trichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-17-8	DECAHYDRONAPHTHALENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-20-3	Naphthalene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-57-6	2-Methylnaphthalene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-47-6	o-Xylene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-50-1	1,2-Dichlorobenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-63-6	1,2,4-Trimethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
98-06-6	tert-Butylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
98-82-8	1-METHYLETHYLBENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	21	22	23			
		Layer Properties			Volatilization Factors		
CAS Number	Chemical	Cover Thickness (cm)	Layer Thickness (cm)	Contaminant Concentration (UCL or Max) (mg/kg)	0.1 Day Average (mg/cm^2-day)	1 Day Average (mg/cm^2-day)	101 Day Average (mg/cm^2-day)
100-41-4	Ethylbenzene	0	914.4	13.03	6.02E-01	1.93E-01	1.92E-02
100-42-5	Styrene	0	914.4	8.174	1.53E-01	4.94E-02	4.95E-03
10042-59-8	2-PROPYL-1-HEPTANOL	0	914.4	19	1.24E-02	5.26E-03	6.01E-04
103-65-1	n-Propylbenzene	0	914.4	1.604	6.20E-02	1.99E-02	1.98E-03
104-51-8	n-Butylbenzene	0	914.4	0.289	8.70E-03	2.80E-03	2.80E-04
106-42-3	P-XYLENE	0	914.4	0.39	1.74E-02	5.58E-03	5.57E-04
106-43-4	4-Chlorotoluene	0	914.4	1.2	1.88E-02	6.10E-03	6.12E-04
106-46-7	1,4-Dichlorobenzene	0	914.4	0.23	4.34E-03	1.40E-03	1.41E-04
106-93-4	1,2-Dibromoethane	0	914.4	0.0061	1.11E-04	3.58E-05	3.59E-06
107-06-2	1,2-Dichloroethane	0	914.4	10	5.02E-01	1.61E-01	1.60E-02
108-38-3	M-XYLENE	0	914.4	27	1.10E+00	3.54E-01	3.53E-02
108-67-8	1,3,5-Trimethylbenzene	0	914.4	0.899	1.70E-02	5.48E-03	5.49E-04
108-88-3	Toluene	0	914.4	0.976	6.02E-02	1.92E-02	1.92E-03
108-90-7	Chlorobenzene	0	914.4	6.6	2.58E-01	8.28E-02	8.27E-03
120-12-7	Anthracene	0	914.4	0.8	7.59E-05	4.60E-05	7.03E-06
120-82-1	1,2,4-Trichlorobenzene	0	914.4	0.001	5.26E-06	1.77E-06	1.81E-07
127-18-4	Tetrachloroethene	0	914.4	0.0078	7.25E-04	2.31E-04	2.30E-05
129-00-0	Pyrene	0	914.4	0.254	1.15E-06	1.01E-06	3.65E-07
132-64-9	Dibenzofuran	0	914.4	0.54	4.46E-06	3.98E-06	1.56E-06
1330-20-7	XYLENES (TOTAL)	0	914.4	4.952	1.19E-01	3.84E-02	3.84E-03
135-98-8	(1-METHYLPROPYL)BENZENE	0	914.4	7.102	3.93E-02	1.32E-02	1.34E-03
1653-40-3	6-METHYL-1,1-HEPTANOL	0	914.4	30	1.88E-01	6.27E-02	6.38E-03
179601-23-1	m,p-Xylenes	0	914.4	2.219	9.08E-02	2.91E-02	2.90E-03
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	0	914.4	3.3	7.29E-02	2.35E-02	2.35E-03
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	0	914.4	8.3	2.24E-01	7.22E-02	7.22E-03
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	0	914.4	4.1	4.16E-02	1.37E-02	1.38E-03
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	0	914.4	3.4	6.50E-02	2.10E-02	2.11E-03
26952-21-6	ISOOCTANOL	0	914.4	11	6.88E-02	2.30E-02	2.34E-03
2719-52-0	(1-METHYLBUTYL)BENZENE	0	914.4	6.1	1.48E-01	4.77E-02	4.77E-03
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	0	914.4	16	1.68E+00	5.37E-01	5.35E-02
3875-51-2	1-METHYLETHYLCYCLOPENTANE	0	914.4	4.2	8.49E-01	2.70E-01	2.59E-02
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	0	914.4	2.7	6.35E-02	2.05E-02	2.05E-03
496-10-6	OCTAHYDROINDENE	0	914.4	31	4.24E+00	1.35E+00	1.34E-01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	0	914.4	7.5	1.91E-01	6.15E-02	6.15E-03
5364-83-0	(1-PROPENYL)CYCLOHEXANE	0	914.4	40	5.64E+00	1.80E+00	1.78E-01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	0	914.4	1.8	2.91E-02	9.45E-03	9.48E-04
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	0	914.4	7.7	1.00E-01	3.27E-02	3.29E-03

Alternative 6 - EMSOFT Input File Parameters for Non-Pit F Compounds

1	3	21	22	23				
		Layer Properties			Volatilization Factors			
CAS Number	Chemical	Cover Thickness (cm)	Layer Thickness (cm)	Contaminant Concentration (UCL or Max) (mg/kg)	0.1 Day Average (mg/cm^2-day)	1 Day Average (mg/cm^2-day)	101 Day Average (mg/cm^2-day)	
591-78-6	2-Hexanone	0	914.4	0.0034	4.62E-05	1.50E-05	1.51E-06	
67-64-1	2-PROPANONE	0	914.4	1.897	2.36E-02	7.69E-03	7.74E-04	Adjusted air diffusion coefficient to 10000 (EMSOFT limitation)
67-66-3	Chloroform	0	914.4	25	2.07E+00	6.59E-01	6.57E-02	
71-43-2	Benzene	0	914.4	0.612	5.07E-02	1.62E-02	1.61E-03	
71-55-6	1,1,1-Trichloroethane	0	914.4	13	1.39E+00	4.43E-01	4.41E-02	
75-09-2	Methylene Chloride	0	914.4	0.83	6.45E-02	2.06E-02	2.05E-03	
75-34-3	1,1-Dichloroethane	0	914.4	0.7	6.17E-02	1.97E-02	1.96E-03	
75-35-4	1,1-Dichloroethene	0	914.4	0.0043	6.70E-04	2.13E-04	2.11E-05	
75-69-4	Trichlorofluoromethane	0	914.4	0.278	3.84E-02	1.22E-02	1.22E-03	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0	914.4	8.6	6.24E-01	1.99E-01	1.99E-02	
78-93-3	2-Butanone	0	914.4	0.538	6.47E-03	2.11E-03	2.13E-04	
79-34-5	1,1,2,2-Tetrachloroethane	0	914.4	0.094	1.50E-03	4.87E-04	4.89E-05	
83-32-9	Acenaphthene	0	914.4	0.207	1.48E-04	6.17E-05	6.98E-06	
85-01-8	Phenanthrene	0	914.4	77.93	7.51E-03	4.54E-03	6.94E-04	
86-73-7	Fluorene	0	914.4	1.255	2.55E-04	1.34E-04	1.78E-05	
87-61-6	1,2,3-Trichlorobenzene	0	914.4	0.0013	5.98E-06	2.03E-06	2.08E-07	
91-17-8	DECAHYDRONAPHTHALENE	0	914.4	15	2.87E-01	1.96E-09	1.96E-09	Adjusted Henry's Law Constant to 1.00E-10 (EMSOFT limitation)
91-20-3	Naphthalene	0	914.4	9.766	3.90E-02	1.34E-02	1.37E-03	
91-57-6	2-Methylnaphthalene	0	914.4	4.236	1.27E-02	4.45E-03	4.61E-04	
941-60-6	1,1,4-6-TETRAMETHYLINDANE	0	914.4	2	1.51E-02	5.02E-03	5.08E-04	
95-47-6	o-Xylene	0	914.4	1.063	4.30E-02	1.38E-02	1.37E-03	
95-50-1	1,2-Dichlorobenzene	0	914.4	0.156	2.59E-03	8.40E-04	8.43E-05	
95-63-6	1,2,4-Trimethylbenzene	0	914.4	2.736	5.30E-02	1.71E-02	1.72E-03	
96-12-8	1,2-Dibromo-3-Chloropropane	0	914.4	0.0059	4.76E-05	1.57E-05	1.59E-06	
98-06-6	tert-Butylbenzene	0	914.4	0.0027	9.53E-05	3.06E-05	3.05E-06	
98-82-8	1-METHYLETHYLBENZENE	0	914.4	7.938	1.52E+00	4.83E-01	4.68E-02	

EMSOFT Model: Summary of Volatilization Factors - Alternative 4 and 6, Pit F

Table 43

Compound	CAS Number	Volatilization Factors	
		Short-Term 0.1 Day Average (mg/cm^2-day)	Short-Term 1 Day Average (mg/cm^2-day)
Pit F			
Ethylbenzene	100-41-4	1.15E-01	3.69E-02
Styrene	100-42-5	5.42E-01	1.75E-01
(1-METHYLPROPYL)BENZENE	135-98-8	1.55E-01	5.20E-02
2-PROPANONE	67-64-1	1.18E-02	3.85E-03
Carbon Disulfide	75-15-0	2.35E-01	7.50E-02
2-Butanone	78-93-3	5.17E-02	1.69E-02
Phenanthrene	85-01-8	5.30E+00	3.21E+00
Naphthalene	91-20-3	6.79E-01	2.32E-01
1,2,4-Trimethylbenzene	95-63-6	4.84E-02	1.56E-02

Source: PCR Services Corporation, 2013

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 and 6 - EMSOFT Input File Parameters for Pit F
Compounds

1	3	4	5	6	7	8	9	10	11
		Chemical Data							
		Organic Carbon Partition Coefficient	**Henry's Law at Average Soil Temperature (AST)**	**Air Diffusion Coefficient**		**Aqueous Diffusion Coefficient**		**Halflife**	**Number of Layers of Contamination**
CAS Number	**Chemical**	K_{OC} **(L/kg)**	$K_{H,S}$ **@ AST (dimensionless)**	$D_{I,A}'$ **(cm^2/s)**	$D_{I,A}$ **(cm^2/day)**	$D_{I,W}'$ **(cm^2/s)**	$D_{I,W}$ **(cm^2/day)**	$t_{1/2}$ **(days)**	**n (dimensionless)**
100-41-4	Ethylbenzene	3.63E+02	2.28E-01	7.50E-02	6.48E+03	7.80E-06	6.74E-01	1.00E+06	1
100-42-5	Styrene	7.76E+02	7.86E-02	7.10E-02	6.13E+03	8.00E-06	6.91E-01	1.00E+06	1
135-98-8	(1-METHYLPROPYL)BENZENE	9.66E+02	1.17E-02	5.70E-02	4.92E+03	8.12E-06	7.02E-01	1.00E+06	1
67-64-1	2-PROPANONE	5.75E-01	1.23E-03	1.24E-01	1.07E+04	1.14E-05	9.85E-01	1.00E+06	1
75-15-0	Carbon Disulfide	4.57E+01	9.92E-01	1.04E-01	8.99E+03	1.00E-05	8.64E-01	1.00E+06	1
78-93-3	2-Butanone	2.30E+00	1.72E-03	8.08E-02	6.98E+03	9.80E-06	8.47E-01	1.00E+06	1
85-01-8	Phenanthrene	1.88E+04	4.90E-04	6.00E-02	5.18E+03	6.95E-06	6.00E-01	1.00E+06	1
91-20-3	Naphthalene	2.00E+03	1.26E-02	5.90E-02	5.10E+03	7.50E-06	6.48E-01	1.00E+06	1
95-63-6	1,2,4-Trimethylbenzene	1.35E+03	1.68E-01	6.06E-02	5.24E+03	7.92E-06	6.84E-01	1.00E+06	1

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 and 6 - EMSOFT Input File Parameters for Pit F
Compounds

1	3	12	13	14	15	16	17	18	19	20
		Calculation Options			Soil Properties				Physical Constraints	
CAS Number	Chemical	Depth (D2) for Printing Soil Concentration Results (days)	Time Period for Averaging and Printing Flux and Soil Concentration Results (days)	Depth (D1) for Averaging Soil Concentration Results (cm)	Fraction Organic Carbon (dimensionless)	Fraction Porosity (dimensionless)	Fraction Water Content (dimensionless)	Bulk Density (g/cm^3)	Porewater Flux (– = up, + = down) (cm/day)	Boundary Layer Thickness (cm)
100-41-4	Ethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
100-42-5	Styrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
135-98-8	(1-METHYLPROPYL)BENZENE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
67-64-1	2-PROPANONE	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
75-15-0	Carbon Disulfide	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
78-93-3	2-Butanone	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
85-01-8	Phenanthrene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
91-20-3	Naphthalene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5
95-63-6	1,2,4-Trimethylbenzene	1	[0.1 / 1 / 164] [16 / 101]	1	0.002	0.399	0.148	1.59	0.00	0.5

The ASCON Landfill RAP EIR
Air Quality Assessment/Health Risk Assessment
EMSOFT Model: Calculation of Volatilization Factors from Soil

Alternative 4 and 6 - EMSOFT Input File Parameters for Pit F
Compounds

1	3	21	22	23			
		Layer Properties			Volatilization Factors		
CAS Number	Chemical	Cover Thickness (cm)	Layer Thickness (cm)	Contaminant Concentration (UCL or Max) (mg/kg)	0.1 Day Average (mg/cm^2-day)	1 Day Average (mg/cm^2-day)	
100-41-4	Ethylbenzene	0	914.4	2.5	1.15E-01	3.69E-02	
100-42-5	Styrene	0	914.4	29	5.42E-01	1.75E-01	
135-98-8	(1-METHYLPROPYL)BENZENE	0	914.4	28	1.55E-01	5.20E-02	
67-64-1	2-PROPANONE	0	914.4	0.95	1.18E-02	3.85E-03	Adjusted air diffusion coefficient to 10000 (EMSOFT limitation)
75-15-0	Carbon Disulfide	0	914.4	1.3	2.35E-01	7.50E-02	
78-93-3	2-Butanone	0	914.4	4.3	5.17E-02	1.69E-02	
85-01-8	Phenanthrene	0	914.4	55000	5.30E+00	3.21E+00	
91-20-3	Naphthalene	0	914.4	170	6.79E-01	2.32E-01	
95-63-6	1,2,4-Trimethylbenzene	0	914.4	2.5	4.84E-02	1.56E-02	

ASCON Health Risk Assessment
Summary of Estimated VOC Emissions - Alternative 4
Table 44

Compound	CAS Number	VOC Emissions									
		Phase 2.4 / 2.5		Phase 3.1		Phase 3.2		Phase 8.1 / 8.2		Phase 9.1 / 9.2	
		Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year
Non-Pit F											
Ethylbenzene	100-41-4	1.69E-02	5.21E-01	2.68E-03	1.26E+00	1.45E-02	4.19E+01	5.93E-03	6.47E-01	5.67E-03	1.31E+00
Styrene	100-42-5	9.67E-04	3.02E-02	1.55E-04	7.29E-02	8.40E-04	2.43E+00	3.41E-04	3.73E-02	3.26E-04	7.56E-02
n-Propylbenzene	103-65-1	9.41E-03	2.90E-01	1.49E-03	7.03E-01	8.09E-03	2.33E+01	3.30E-03	3.60E-01	3.16E-03	7.30E-01
n-Butylbenzene	104-51-8	8.57E-04	2.65E-02	1.36E-04	6.42E-02	7.39E-04	2.13E+00	3.01E-04	3.28E-02	2.88E-04	6.66E-02
P-XYLENE	106-42-3	1.08E-03	3.33E-02	1.71E-04	8.06E-02	9.28E-04	2.68E+00	3.79E-04	4.13E-02	3.62E-04	8.38E-02
1,2-Dibromoethane	106-93-4	4.78E-05	1.50E-03	7.65E-06	3.61E-03	4.15E-05	1.20E-01	1.69E-05	1.84E-03	1.61E-05	3.74E-03
M-XYLENE	108-38-3	1.15E-02	3.54E-01	1.82E-03	8.57E-01	9.87E-03	2.85E+01	4.03E-03	4.39E-01	3.85E-03	8.91E-01
1,3,5-Trimethylbenzene	108-67-8	3.27E-03	1.02E-01	5.23E-04	2.47E-01	2.84E-03	8.20E+00	1.15E-03	1.26E-01	1.10E-03	2.56E-01
Toluene	108-88-3	7.27E-03	2.23E-01	1.15E-03	5.41E-01	6.23E-03	1.80E+01	2.54E-03	2.77E-01	2.43E-03	5.62E-01
Chlorobenzene	108-90-7	3.38E-05	1.04E-03	5.36E-06	2.53E-03	2.91E-05	8.39E-02	1.19E-05	1.29E-03	1.13E-05	2.62E-03
Anthracene	120-12-7	6.97E-05	5.74E-03	2.00E-05	9.69E-03	1.30E-04	4.19E-01	3.77E-05	4.58E-03	3.61E-05	9.29E-03
1,2,4-Trichlorobenzene	120-82-1	2.27E-06	7.50E-05	3.77E-07	1.78E-04	2.05E-06	5.98E-03	8.22E-07	9.04E-05	7.86E-07	1.83E-04
Tetrachloroethene	127-18-4	3.13E-04	9.59E-03	4.94E-05	2.33E-02	2.68E-04	7.71E-01	1.09E-04	1.19E-02	1.05E-04	2.42E-02
Pyrene	129-00-0	9.23E-07	1.98E-04	3.79E-07	1.85E-04	4.47E-06	1.60E-02	6.68E-07	8.48E-05	6.39E-07	1.72E-04
XYLENES (TOTAL)	1330-20-7	5.67E-02	1.76E+00	9.03E-03	4.26E+00	4.90E-02	1.42E+02	2.00E-02	2.18E+00	1.91E-02	4.42E+00
(1-METHYLPROPYL)BENZENE	135-98-8	1.08E-03	3.56E-02	1.79E-04	8.46E-02	9.76E-04	2.84E+00	3.91E-04	4.30E-02	3.74E-04	8.72E-02
m,p-Xylenes	179601-23-1	1.42E-02	4.37E-01	2.24E-03	1.06E+00	1.22E-02	3.51E+01	4.96E-03	5.41E-01	4.75E-03	1.10E+00
2-Hexanone	591-78-6	2.00E-05	6.29E-04	3.21E-06	1.51E-03	1.74E-05	5.04E-02	7.07E-06	7.73E-04	6.76E-06	1.57E-03
2-PROPANONE	67-64-1	4.10E-04	1.30E-02	6.61E-05	3.12E-02	3.59E-04	1.04E+00	1.45E-04	1.59E-02	1.39E-04	3.23E-02
Benzene	71-43-2	2.44E-03	7.48E-02	3.85E-04	1.81E-01	2.09E-03	6.01E+00	8.53E-04	9.29E-02	8.16E-04	1.88E-01
Methylene Chloride	75-09-2	2.18E-04	6.70E-03	3.45E-05	1.62E-02	1.87E-04	5.39E-01	7.64E-05	8.32E-03	7.31E-05	1.69E-02
1,1-Dichloroethene	75-35-4	2.89E-04	8.85E-03	4.56E-05	2.15E-02	2.44E-04	6.98E-01	1.01E-04	1.10E-02	9.66E-05	2.23E-02
Trichlorofluoromethane	75-69-4	3.40E-03	1.04E-01	5.36E-04	2.53E-01	2.89E-03	8.29E+00	1.19E-03	1.29E-01	1.14E-03	2.63E-01
2-Butanone	78-93-3	7.79E-05	2.46E-03	1.26E-05	5.92E-03	6.83E-05	1.98E-01	2.76E-05	3.02E-03	2.64E-05	6.14E-03
1,1,2,2-Tetrachloroethane	79-34-5	2.00E-05	6.27E-04	3.21E-06	1.51E-03	1.74E-05	5.03E-02	7.07E-06	7.72E-04	6.76E-06	1.57E-03
Acenaphthene	83-32-9	7.10E-04	3.16E-02	1.44E-04	6.85E-02	8.07E-04	2.44E+00	2.95E-04	3.37E-02	2.82E-04	6.85E-02
Phenanthrene	85-01-8	4.29E-03	3.53E-01	1.23E-03	5.96E-01	7.97E-03	2.57E+01	2.32E-03	2.82E-01	2.22E-03	5.71E-01
Fluorene	86-73-7	1.84E-04	1.18E-02	4.64E-05	2.23E-02	2.79E-04	8.76E-01	9.00E-05	1.07E-02	8.61E-05	2.17E-02
1,2,3-Trichlorobenzene	87-61-6	2.58E-06	8.61E-05	4.31E-07	2.04E-04	2.35E-06	6.86E-03	9.38E-07	1.03E-04	8.98E-07	2.10E-04
Naphthalene	91-20-3	2.13E-03	7.20E-02	3.59E-04	1.70E-01	1.96E-03	5.72E+00	7.79E-04	8.60E-02	7.46E-04	1.75E-01
2-Methylnaphthalene	91-57-6	6.45E-03	2.24E-01	1.11E-03	5.24E-01	6.06E-03	1.77E+01	2.39E-03	2.65E-01	2.28E-03	5.37E-01
o-Xylene	95-47-6	2.63E-03	8.13E-02	4.17E-04	1.97E-01	2.27E-03	6.53E+00	9.24E-04	1.01E-01	8.84E-04	2.04E-01
1,2-Dichlorobenzene	95-50-1	2.51E-03	7.87E-02	4.02E-04	1.90E-01	2.18E-03	6.31E+00	8.87E-04	9.69E-02	8.48E-04	1.97E-01
1,2,4-Trimethylbenzene	95-63-6	9.75E-03	3.04E-01	1.56E-03	7.35E-01	8.46E-03	2.44E+01	3.44E-03	3.76E-01	3.29E-03	7.62E-01
1,2-Dibromo-3-Chloropropane	96-12-8	2.06E-05	6.61E-04	3.35E-06	1.58E-03	1.82E-05	5.29E-02	7.35E-06	8.06E-04	7.03E-06	1.64E-03
1-METHYLETHYLBENZENE	98-82-8	3.19E-02	9.75E-01	5.02E-03	2.36E+00	2.64E-02	7.51E+01	1.11E-02	1.21E+00	1.06E-02	2.46E+00
Pit F											
Ethylbenzene	100-41-4	1.73E-04	4.94E-02	-	-	-	-	-	-	-	-
Styrene	100-42-5	8.21E-04	2.34E-01	-	-	-	-	-	-	-	-
(1-METHYLPROPYL)BENZENE	135-98-8	2.44E-04	6.95E-02	-	-	-	-	-	-	-	-
2-PROPANONE	67-64-1	1.81E-05	5.15E-03	-	-	-	-	-	-	-	-
Carbon Disulfide	75-15-0	3.51E-04	1.00E-01	-	-	-	-	-	-	-	-
2-Butanone	78-93-3	7.91E-05	2.26E-02	-	-	-	-	-	-	-	-
Phenanthrene	85-01-8	1.49E-02	4.27E+00	-	-	-	-	-	-	-	-
Naphthalene	91-20-3	1.09E-03	3.10E-01	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	95-63-6	7.33E-05	2.09E-02	-	-	-	-	-	-	-	-
Total		**0.21**	**11.26**	**0.03**	**14.65**	**0.17**	**489.79**	**0.07**	**7.47**	**0.07**	**15.15**

Source: PCR Services Corporation, (2013).

Note: See worksheets on the following pages for calculation details.

ASCON AQ/HRA - Emissions Inventory
VOC Emission Calculation Assumptions

NOTE: BLUE COLORED TEXT ARE LINKED TO THE SUBSEQUENT TABS

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: *Project Navigator, Ltd., (2013)* .
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: *Project Navigator, Ltd., (2013)* .
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: *Project Navigator, Ltd., (2013)* .
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: *Project Navigator, Ltd., (2013)* .
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: *USEPA, Control of Air Emissions from Superfund Sites, (1992)* . Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	*Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982)* . Estimated capture and control efficiency.

Stockpile Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstabilized soil parcel is stablized on-site within an hour. Source: *Project Navigator, Ltd., (2013)* .
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized soil parcel is on-site for 1 day on average before removal to long-term stabilization area and subsequent addition of new soil parcel (conservative assumption due to higher volatilization factor).

Phase - Subphase	Phase / Subphase No.	Unstabilized Stockpile Area (acres)	Stabilized Stockpile Area (acres)	References
Pit F - Slurry Trench Excavation(waste in bins)/Transport and Dispose of Impacted Material	2.4 / 2.5	0	0	Unstabilized Area: Estimated area where no soil stabilizing agent is applied or prior stablized area is disturbed. Stabilized Area: Estimated area where soil is stabilized prior to removal to treatment cell or long-term stabilization area. For Pit F, this refers to the entire Pit F area controlled by the structure (referred to as active and inactive areas). Source: *Project Navigator, Ltd., (2013).*
Cut/Fill to Top of Waste - Install slurry wall at lagoons 4 and 5	3.1	0	0.5	
Cut/Fill to Top of Waste - Cut/Fill to top of waste	3.2	0	0.5	

Excavated Surface Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/unstabilized excavated surface area (surface area of in-ground soil parcel) is stablized on-site within an hour. Source: *Project Navigator, Ltd., (2013)* . This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized excavated soil surface area (surface area of in-ground soil parcel) is on-site for 1 day on average before stockpiled and removal to long-term stabilized area and subsequent excavation of new soil area (conservative assumption due to use of higher volatilization factor). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Percent of Excavated Area Controlled - Stabilizer	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).
Layer Thickness	914.4	cm	It is conservatively estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately 5 to 30 feet. Thus, in order to provide a conservative assessment, a layer thickness of 30 feet was for all areas assigned to the VOC emissions model (i.e., EMSOFT).
Adjustment Factor for Number of Excavated Surfaces Exposed to Air	3	unitless	Number of excavated surfaces exposed to air due to removal of a cubic soil parcel.

Phase - Subphase	Phase / Subphase No.	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	References
Pit F - Slurry Trench Excavation(waste in bins)/Transport and Dispose of Impacted Material	2.4 / 2.5	300	400	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 4 Project Description, (2013)* .
Cut/Fill to Top of Waste - Install slurry wall at lagoons 4 and 5	3.1	208	225	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 4 Project Description, (2013)* .
Cut/Fill to Top of Waste - Cut/Fill to top of waste	3.2	2300	2500	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 4 Project Description, (2013)* .
City Parcel - Cut and Backfill / Utility Poles	8.1 / 8.2	2300	2300	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 4 Project Description, (2013)* .
South Coast Oil Corporation - Cut / Backfill to Top of Final Grade	9.1 / 9.2	2000	2200	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 4 Project Description, (2013)* .

ASCON AQ/HRA - Emissions Inventory
VOC Emission Calculation Assumptions

NOTE: BLUE COLORED TEXT ARE LINKED TO THE SUBSEQUENT TABS

Vehicle Disturbance Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstablized area emissions from vehicles traveling over new roadways.
Vehicle Area Disturbance (New Road for Pit F Area)	0.5	m	Estimated wheel width of on-site equipment.
	470	m	Estimated round trip distance.
	0.116	acres	Estimated vehicle area of disturbance caused by vehicles traveling over soil (calculated as [Wheel Width × 2 × Round Trip Distance] and converted to acres).
	4.70E+06	cm^2	Estimated vehicle area disturbance caused by vehicles traveling over contaminated soil, converted to units of cm^2.

Stabilized Surface Area Volatilization Assumptions

Parameter	Value	Units	References
Stabilized Surface Area Emission Rate	Varies by Chemical	mass/area-time	Horizontal surface area that is stabilized and passively volatilzing prior to installation of the cap. This is calculated as the area that would be covered by the cap and not backfilled/capped using a volitalization factor based on the number of days between the start of Phase 3.2 and the completion date of Phase 6 (approximately 164 days).
Stabilized Surface Area Emission Duration	164	days	Number of days between the start of Phase 3.2 and the completion date of Phase 6 (approximately 164 days).
Area under Cap	1.22E+08	cm^2	Estimated area where material is deposited and not yet backfilled/capped. Estimated as the area of Lagoons 1 and 2, where the material is to be deposited.
Area under Cap	3.0	acres	Estimated area where material is deposited and not yet backfilled/capped. Estimated as the area of Lagoons 1 and 2, where the material is to be deposited.
Percent of Area Controlled	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).

ASCON AQ/HRA - Emissions Inventory
Stockpile VOC Emissions

Emissions Equation

Emissions (lb/time) = (1 - MR) x t x VF x A_S

Where
MR = Mitigation (% Reduction)
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: USEPA, Control of Air Emissions from Superfund Sites, (1992). Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982). Estimated capture and control efficiency.

Stockpile Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstabilized soil parcel is stablized on-site within an hour. Source: Project Navigator, Ltd., (2013).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized soil parcel is on-site for 1 day on average before removal to long-term stabilization area and subsequent addition of new soil parcel (conservative assumption due to higher volatilization factor).

Phases with Excavation Activities (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	Unstabilized Stockpile Area (acres)	Unstablized Stockpile Area (cm^2)	Unstabilized Area Mitigated for Overnight (typical workday hours)	Unstabilized Area Mitigated for Overnight (maximum workday hours)	Stabilized Stockpile Area (acres)	Stabilized Stockpile Area (cm^2)	Stabilized Mitigation (% Reduction)
Pit F - Slurry Trench Excavation(waste in bins)/Transport and Dispose of Impacted Material	2.4 / 2.5	16	300	400	0	0.00E+00	15	13	0	0.00E+00	95%
Cut/Fill to Top of Waste - Install slurry wall at lagoons 4 and 5	3.1	21	208	225	0	0.00E+00	15	13	0.5	2.02E+07	91%
Cut/Fill to Top of Waste - Cut/Fill to top of waste	3.2	116	2300	2500	0	0.00E+00	15	13	0.5	2.02E+07	91%

Emissions Calculations

Maximum Hourly

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}HR} \times A_{SU}$ *(Emissions during the first hour prior to stabilization from temporary unstabilized portion of stockpile.)*

Inactive/Stabilized Area Emissions (SAE) = (1 - MR) × $VF_{1\text{-}DAY} \times A_S$ *(Emissions from the stabilized portion of the stockpile based on 1-day average volatilization factors. Stockpile could remain on-site up to 30 days Per SCAQMD Rule 1166; however, 1-day average volatilziation factors were used as a conservative assumption, which assumes stockpiled soil is volatilizing at a higher rate.)*

Total Emissions = AE + SAE

		Unstabilized Area Emission Rates		Stabilized Area Emission Rates				Emissions (lbs/hour)								
						Phase 2.4 / 2.5	All Other Phases	Phase / Subphase No. 2.4 / 2.5			Phase / Subphase No. 3.1			Phase / Subphase No. 3.2		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Unstablilized Area Emissions (lbs/hour)	Stabilized Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Unstablilized Area Emissions (lbs/hour)	Stabilized Area Emissions (lbs/hour)	Total Emissions (lbs/hour)
Non-Pit F																
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	-	1.04E-10	-	-	-	0.00E+00	2.10E-03	2.10E-03	0.00E+00	2.10E-03	2.10E-03
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	-	5.99E-12	-	-	-	0.00E+00	1.21E-04	1.21E-04	0.00E+00	1.21E-04	1.21E-04
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	-	5.78E-11	-	-	-	0.00E+00	1.17E-03	1.17E-03	0.00E+00	1.17E-03	1.17E-03
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	-	5.27E-12	-	-	-	0.00E+00	1.07E-04	1.07E-04	0.00E+00	1.07E-04	1.07E-04
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	-	6.63E-12	-	-	-	0.00E+00	1.34E-04	1.34E-04	0.00E+00	1.34E-04	1.34E-04
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	0.00E+00	6.00E-06	6.00E-06	0.00E+00	6.00E-06	6.00E-06
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	-	7.05E-11	-	-	-	0.00E+00	1.43E-03	1.43E-03	0.00E+00	1.43E-03	1.43E-03
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	-	2.03E-11	-	-	-	0.00E+00	4.10E-04	4.10E-04	0.00E+00	4.10E-04	4.10E-04
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	-	4.45E-11	-	-	-	0.00E+00	9.00E-04	9.00E-04	0.00E+00	9.00E-04	9.00E-04
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	-	2.08E-13	-	-	-	0.00E+00	4.20E-06	4.20E-06	0.00E+00	4.20E-06	4.20E-06
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	-	8.08E-13	-	-	-	0.00E+00	1.63E-05	1.63E-05	0.00E+00	1.63E-05	1.63E-05
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	0.00E+00	2.96E-07	2.96E-07	0.00E+00	2.96E-07	2.96E-07
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	0.00E+00	3.87E-05	3.87E-05	0.00E+00	3.87E-05	3.87E-05
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	-	1.55E-14	-	-	-	0.00E+00	3.14E-07	3.14E-07	0.00E+00	3.14E-07	3.14E-07
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	-	3.50E-10	-	-	-	0.00E+00	7.08E-03	7.08E-03	0.00E+00	7.08E-03	7.08E-03
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	-	6.96E-12	-	-	-	0.00E+00	1.41E-04	1.41E-04	0.00E+00	1.41E-04	1.41E-04
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	-	8.68E-11	-	-	-	0.00E+00	1.76E-03	1.76E-03	0.00E+00	1.76E-03	1.76E-03
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	2.52E-06	2.52E-06	0.00E+00	2.52E-06	2.52E-06
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	-	2.56E-12	-	-	-	0.00E+00	5.18E-05	5.18E-05	0.00E+00	5.18E-05	5.18E-05
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	-	1.49E-11	-	-	-	0.00E+00	3.01E-04	3.01E-04	0.00E+00	3.01E-04	3.01E-04
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	-	1.33E-12	-	-	-	0.00E+00	2.70E-05	2.70E-05	0.00E+00	2.70E-05	2.70E-05
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	0.00E+00	3.57E-05	3.57E-05	0.00E+00	3.57E-05	3.57E-05
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	-	2.07E-11	-	-	-	0.00E+00	4.20E-04	4.20E-04	0.00E+00	4.20E-04	4.20E-04
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	-	4.87E-13	-	-	-	0.00E+00	9.85E-06	9.85E-06	0.00E+00	9.85E-06	9.85E-06
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	2.51E-06	2.51E-06	0.00E+00	2.51E-06	2.51E-06
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	-	5.67E-12	-	-	-	0.00E+00	1.15E-04	1.15E-04	0.00E+00	1.15E-04	1.15E-04
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	-	4.97E-11	-	-	-	0.00E+00	1.01E-03	1.01E-03	0.00E+00	1.01E-03	1.01E-03
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	-	1.86E-12	-	-	-	0.00E+00	3.76E-05	3.76E-05	0.00E+00	3.76E-05	3.76E-05
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	0.00E+00	3.40E-07	3.40E-07	0.00E+00	3.40E-07	3.40E-07
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	-	1.40E-11	-	-	-	0.00E+00	2.83E-04	2.83E-04	0.00E+00	2.83E-04	2.83E-04
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	-	4.32E-11	-	-	-	0.00E+00	8.74E-04	8.74E-04	0.00E+00	8.74E-04	8.74E-04
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	-	1.62E-11	-	-	-	0.00E+00	3.27E-04	3.27E-04	0.00E+00	3.27E-04	3.27E-04
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	-	1.56E-11	-	-	-	0.00E+00	3.15E-04	3.15E-04	0.00E+00	3.15E-04	3.15E-04
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	-	6.04E-11	-	-	-	0.00E+00	1.22E-03	1.22E-03	0.00E+00	1.22E-03	1.22E-03
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	0.00E+00	2.63E-06	2.63E-06	0.00E+00	2.63E-06	2.63E-06
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	0.00E+00	3.93E-03	3.93E-03	0.00E+00	3.93E-03	3.93E-03
Pit F																
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
	Totals							**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.02**	**0.00**	**0.02**	**0.02**

Annual

Active/Unstabilized Area Emissions (AE) = $t_{TYP} \times VF_{1\text{-}HR} \times A_S$ *(On-going emissions during the first hour prior to stabilization from temporary portion of stockpile. Emissions calculated for typical workday hours in a day and number of days for each phase.)*

Inactive/Stabilized Area Emissions (SAE) = $(1 - MR) \times t_{TYP} \times VF_{1\text{-}DAY} \times A_S$ *(On-going emissions from the stabilized portion of the stockpile plus emissions from the temporary portion of the stockpile stabilized for overnight hours based on 1-day average volatilization factors. Stockpile could remain on-site up to 30 days Per SCAQMD Rule 1166; however, 1-day average volatiliziation factors were used as a conservative assumption, which assumes stockpiled soil is volatilizing at a higher rate. Emissions calculated for typical workday and overnight hours in a day and number of days for each phase.)*

Total Emissions = AE + SAE

		Unstabilized Area Emission Rates		Stabilized Area Emission Rates				Emissions (lbs/year)								
						Phase 2.4 / 2.5	All Other Phases	Phase / Subphase No. 2.4 / 2.5			Phase / Subphase No. 3.1			Phase / Subphase No. 3.2		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)
Non-Pit F																
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	-	1.04E-10	-	-	-	0.00E+00	1.06E+00	1.06E+00	0.00E+00	5.84E+00	5.84E+00
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	-	5.99E-12	-	-	-	0.00E+00	6.11E-02	6.11E-02	0.00E+00	3.38E-01	3.38E-01
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	-	5.78E-11	-	-	-	0.00E+00	5.89E-01	5.89E-01	0.00E+00	3.25E+00	3.25E+00
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	-	5.27E-12	-	-	-	0.00E+00	5.38E-02	5.38E-02	0.00E+00	2.97E-01	2.97E-01
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	-	6.63E-12	-	-	-	0.00E+00	6.76E-02	6.76E-02	0.00E+00	3.73E-01	3.73E-01
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	0.00E+00	3.02E-03	3.02E-03	0.00E+00	1.67E-02	1.67E-02
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	-	7.05E-11	-	-	-	0.00E+00	7.19E-01	7.19E-01	0.00E+00	3.97E+00	3.97E+00
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	-	2.03E-11	-	-	-	0.00E+00	2.07E-01	2.07E-01	0.00E+00	1.14E+00	1.14E+00
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	-	4.45E-11	-	-	-	0.00E+00	4.53E-01	4.53E-01	0.00E+00	2.50E+00	2.50E+00
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	-	2.08E-13	-	-	-	0.00E+00	2.12E-03	2.12E-03	0.00E+00	1.17E-02	1.17E-02
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	-	8.08E-13	-	-	-	0.00E+00	8.24E-03	8.24E-03	0.00E+00	4.55E-02	4.55E-02
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	0.00E+00	1.49E-04	1.49E-04	0.00E+00	8.25E-04	8.25E-04
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	0.00E+00	1.95E-02	1.95E-02	0.00E+00	1.08E-01	1.08E-01
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	-	1.55E-14	-	-	-	0.00E+00	1.58E-04	1.58E-04	0.00E+00	8.74E-04	8.74E-04
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	-	3.50E-10	-	-	-	0.00E+00	3.57E+00	3.57E+00	0.00E+00	1.97E+01	1.97E+01
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	-	6.96E-12	-	-	-	0.00E+00	7.10E-02	7.10E-02	0.00E+00	3.92E-01	3.92E-01
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	-	8.68E-11	-	-	-	0.00E+00	8.85E-01	8.85E-01	0.00E+00	4.89E+00	4.89E+00
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	1.27E-03	1.27E-03	0.00E+00	7.01E-03	7.01E-03
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	-	2.56E-12	-	-	-	0.00E+00	2.61E-02	2.61E-02	0.00E+00	1.44E-01	1.44E-01
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	-	1.49E-11	-	-	-	0.00E+00	1.52E-01	1.52E-01	0.00E+00	8.39E-01	8.39E-01
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	-	1.33E-12	-	-	-	0.00E+00	1.36E-02	1.36E-02	0.00E+00	7.52E-02	7.52E-02
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	0.00E+00	1.80E-02	1.80E-02	0.00E+00	9.93E-02	9.93E-02
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	-	2.07E-11	-	-	-	0.00E+00	2.12E-01	2.12E-01	0.00E+00	1.17E+00	1.17E+00
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	-	4.87E-13	-	-	-	0.00E+00	4.97E-03	4.97E-03	0.00E+00	2.74E-02	2.74E-02
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	1.27E-03	1.27E-03	0.00E+00	7.00E-03	7.00E-03
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	-	5.67E-12	-	-	-	0.00E+00	5.78E-02	5.78E-02	0.00E+00	3.19E-01	3.19E-01
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	-	4.97E-11	-	-	-	0.00E+00	5.07E-01	5.07E-01	0.00E+00	2.80E+00	2.80E+00
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	-	1.86E-12	-	-	-	0.00E+00	1.89E-02	1.89E-02	0.00E+00	1.05E-01	1.05E-01
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	0.00E+00	1.71E-04	1.71E-04	0.00E+00	9.45E-04	9.45E-04
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	-	1.40E-11	-	-	-	0.00E+00	1.43E-01	1.43E-01	0.00E+00	7.88E-01	7.88E-01
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	-	4.32E-11	-	-	-	0.00E+00	4.40E-01	4.40E-01	0.00E+00	2.43E+00	2.43E+00
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	-	1.62E-11	-	-	-	0.00E+00	1.65E-01	1.65E-01	0.00E+00	9.11E-01	9.11E-01
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	-	1.56E-11	-	-	-	0.00E+00	1.59E-01	1.59E-01	0.00E+00	8.78E-01	8.78E-01
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	-	6.04E-11	-	-	-	0.00E+00	6.16E-01	6.16E-01	0.00E+00	3.40E+00	3.40E+00
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	0.00E+00	1.33E-03	1.33E-03	0.00E+00	7.33E-03	7.33E-03
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	0.00E+00	1.98E+00	1.98E+00	0.00E+00	1.09E+01	1.09E+01
Pit F																
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-
	Totals							**0.00**	**0.00**	**0.00**	**0.00**	**12.28**	**12.28**	**0.00**	**67.84**	**67.84**

ASCON AQ/HRA - Emissions Inventory
Excavated Surfaces VOC Emissions

Emissions Equation

Emissions (lb/time) = (1 - MR) x t x VF x A_S

Where
MR = Mitigation (% Reduction)
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: USEPA, Control of Air Emissions from Superfund Sites, (1992). Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982). Estimated capture and control efficiency.

Excavated Surface Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstabilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/unstabilized excavated surface area (surface area of in-ground soil parcel) is stablized on-site within an hour. Source: Project Navigator, Ltd., (2013). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized excavated soil surface area (surface area of in-ground soil parcel) is on-site for 1 day on average before stockpiled and removal to long-term stabilized area and subsequent excavation of new soil area (conservative assumption due to use of higher volatilization factor). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Percent of Area Controlled - Pit F Structure	100%	(%)	Percent of area controlled for VOCs (Pit F Structure).
Percent of Excavated Area Controlled - Stabilizer	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).
Layer Thickness	914.4	cm	It is conservatively estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately 5 to 30 feet. Thus, in order to provide a conservative assessment, a layer thickness of 30 feet was for all areas assigned to the VOC emissions model (i.e., EMSOFT).
Adjustment Factor for Number of Excavated Surfaces Exposed to Air	3	unitless	Number of excavated surfaces exposed to air due to removal of a cubic soil parcel.

Phases with Excavation Activities (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	Average Hourly QTY Excavated (CY)	Max Hourly QTY Excavated (CY)	Average (Daily) Previously Excavated Soil Surface Area (cm^2)	Max (Daily) Previously Excavated Soil Surface Area (cm^2)	Average Hourly Excavated/Disturbed Soil Surface Area* (cm^2)	Max Hourly Excavated/Disturbed Soil Surface Area* (cm^2)	Stabilized Mitigation (% Reduction)	Percent of Excavated Daily Area Controlled
Pit F - Slurry Trench Excavation(waste in bins)/Transport and Dispose of Impacted Material	2.4 / 2.5	16	300	400	33.33	44.44	7.53E+05	1.00E+06	8.36E+04	1.11E+05	95%	100%
Cut/Fill to Top of Waste - Install slurry wall at lagoons 4 and 5	3.1	21	208	225	23.11	25.00	5.22E+05	5.64E+05	5.80E+04	6.27E+04	91%	50%
Cut/Fill to Top of Waste - Cut/Fill to top of waste	3.2	116	2,300	2,500	255.56	277.78	5.77E+06	6.27E+06	6.41E+05	6.97E+05	91%	50%
City Parcel - Cut and Backfill / Utility Poles	8.1 / 8.2	6	2,300	2,300	255.56	255.56	5.77E+06	5.77E+06	6.41E+05	6.41E+05	91%	50%
South Coast Oil Corporation - Cut / Backfill to Top of Final Grade	9.1 / 9.2	14	2,000	2,200	222.22	244.44	5.02E+06	5.52E+06	5.57E+05	6.13E+05	91%	50%

Emissions Calculations

Maximum Hourly

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}HR} \times A_{S,U}$ *(Emissions during the first hour prior to stabilization from temporary unstabilized portion of excavated area.)*

Inactive/Stabilized Area Emissions (SAE) = (1 - MR) × $VF_{1\text{-}DAY} \times A_S$ *(Emissions from the stabilized portion of the excavated area based on 1-day average volatilization factors. Consistent with the stockpile assumptions, the use of 1-day average volatiliziation factors assumes soil parcels are removed from the surface daily.)*

Total Emissions = AE + SAE

		Active Area Emission Rates		Inactive Area Emission Rates				Emissions (lbs/hour)														
						Phase 2.4 / 2.5	All Other Phases	Phase / Subphase No. 2.4 / 2.5			Phase / Subphase No. 3.1			Phase / Subphase No. 3.2			Phase / Subphase No. 8.1 / 8.2			Phase / Subphase No. 9.1 / 9.2		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)
Non-Pit F																						
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	-	1.04E-10	-	-	-	2.26E-04	3.55E-04	5.80E-04	2.51E-03	3.94E-03	6.45E-03	2.31E-03	3.62E-03	5.93E-03	2.21E-03	3.47E-03	5.67E-03
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	-	5.99E-12	-	-	-	1.29E-05	2.05E-05	3.34E-05	1.43E-04	2.28E-04	3.71E-04	1.32E-04	2.09E-04	3.41E-04	1.26E-04	2.00E-04	3.26E-04
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	-	5.78E-11	-	-	-	1.26E-04	1.97E-04	3.23E-04	1.39E-03	2.19E-03	3.59E-03	1.28E-03	2.02E-03	3.30E-03	1.23E-03	1.93E-03	3.16E-03
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	-	5.27E-12	-	-	-	1.14E-05	1.80E-05	2.94E-05	1.27E-04	2.00E-04	3.27E-04	1.17E-04	1.84E-04	3.01E-04	1.12E-04	1.76E-04	2.88E-04
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	-	6.63E-12	-	-	-	1.44E-05	2.26E-05	3.71E-05	1.60E-04	2.52E-04	4.12E-04	1.47E-04	2.31E-04	3.79E-04	1.41E-04	2.21E-04	3.62E-04
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	6.38E-07	1.01E-06	1.65E-06	7.09E-06	1.13E-05	1.83E-05	6.52E-06	1.04E-05	1.69E-05	6.24E-06	9.90E-06	1.61E-05
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	-	7.05E-11	-	-	-	1.53E-04	2.41E-04	3.94E-04	1.70E-03	2.68E-03	4.38E-03	1.57E-03	2.46E-03	4.03E-03	1.50E-03	2.35E-03	3.85E-03
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	-	2.03E-11	-	-	-	4.37E-05	6.93E-05	1.13E-04	4.85E-04	7.70E-04	1.25E-03	4.46E-04	7.08E-04	1.15E-03	4.27E-04	6.77E-04	1.10E-03
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	-	4.45E-11	-	-	-	9.70E-05	1.52E-04	2.49E-04	1.08E-03	1.69E-03	2.77E-03	9.91E-04	1.55E-03	2.54E-03	9.48E-04	1.49E-03	2.43E-03
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	-	2.08E-13	-	-	-	4.51E-07	7.09E-07	1.16E-06	5.01E-06	7.88E-06	1.29E-05	4.61E-06	7.25E-06	1.19E-05	4.41E-06	6.93E-06	1.13E-05
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	-	8.08E-13	-	-	-	9.29E-07	2.76E-06	3.69E-06	1.03E-05	3.07E-05	4.10E-05	9.50E-06	2.82E-05	3.77E-05	9.09E-06	2.70E-05	3.61E-05
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	3.03E-08	5.01E-08	8.04E-08	3.37E-07	5.56E-07	8.93E-07	3.10E-07	5.12E-07	8.22E-07	2.96E-07	4.90E-07	7.86E-07
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	4.17E-06	6.53E-06	1.07E-05	4.64E-05	7.26E-05	1.19E-04	4.27E-05	6.68E-05	1.09E-04	4.08E-05	6.39E-05	1.05E-04
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	-	1.55E-14	-	-	-	1.23E-08	5.30E-08	6.53E-08	1.37E-07	5.89E-07	7.26E-07	1.26E-07	5.42E-07	6.68E-07	1.20E-07	5.18E-07	6.39E-07
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	-	3.50E-10	-	-	-	7.56E-04	1.20E-03	1.95E-03	8.40E-03	1.33E-02	2.17E-02	7.73E-03	1.22E-02	2.00E-02	7.40E-03	1.17E-02	1.91E-02
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	-	6.96E-12	-	-	-	1.44E-05	2.38E-05	3.82E-05	1.60E-04	2.64E-04	4.25E-04	1.48E-04	2.43E-04	3.91E-04	1.41E-04	2.33E-04	3.74E-04
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	-	8.68E-11	-	-	-	1.89E-04	2.97E-04	4.86E-04	2.10E-03	3.30E-03	5.39E-03	1.93E-03	3.03E-03	4.96E-03	1.85E-03	2.90E-03	4.75E-03
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	2.66E-07	4.25E-07	6.91E-07	2.96E-06	4.72E-06	7.68E-06	2.72E-06	4.35E-06	7.07E-06	2.60E-06	4.16E-06	6.76E-06
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	-	2.56E-12	-	-	-	5.47E-06	8.76E-06	1.42E-05	6.08E-05	9.73E-05	1.58E-04	5.59E-05	8.95E-05	1.45E-04	5.35E-05	8.56E-05	1.39E-04
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	-	1.49E-11	-	-	-	3.25E-05	5.09E-05	8.34E-05	3.61E-04	5.66E-04	9.27E-04	3.32E-04	5.20E-04	8.53E-04	3.18E-04	4.98E-04	8.16E-04
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	-	1.33E-12	-	-	-	2.91E-06	4.56E-06	7.48E-06	3.24E-05	5.07E-05	8.31E-05	2.98E-05	4.66E-05	7.64E-05	2.85E-05	4.46E-05	7.31E-05
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	3.86E-06	6.03E-06	9.88E-06	4.29E-05	6.69E-05	1.10E-04	3.94E-05	6.16E-05	1.01E-04	3.77E-05	5.89E-05	9.66E-05
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	-	2.07E-11	-	-	-	4.54E-05	7.09E-05	1.16E-04	5.04E-04	7.88E-04	1.29E-03	4.64E-04	7.25E-04	1.19E-03	4.44E-04	6.93E-04	1.14E-03
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	-	4.87E-13	-	-	-	1.04E-06	1.66E-06	2.70E-06	1.15E-05	1.85E-05	3.00E-05	1.06E-05	1.70E-05	2.76E-05	1.02E-05	1.63E-05	2.64E-05
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	2.67E-07	4.25E-07	6.91E-07	2.96E-06	4.72E-06	7.68E-06	2.73E-06	4.34E-06	7.07E-06	2.61E-06	4.15E-06	6.76E-06
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	-	5.67E-12	-	-	-	9.47E-06	1.94E-05	2.88E-05	1.05E-04	2.15E-04	3.20E-04	9.68E-05	1.98E-04	2.95E-04	9.26E-05	1.89E-04	2.82E-04
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	-	4.97E-11	-	-	-	5.72E-05	1.70E-04	2.27E-04	6.36E-04	1.89E-03	2.52E-03	5.85E-04	1.74E-03	2.32E-03	5.59E-04	1.66E-03	2.22E-03
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	-	1.86E-12	-	-	-	2.46E-06	6.35E-06	8.80E-06	2.73E-05	7.05E-05	9.78E-05	2.51E-05	6.49E-05	9.00E-05	2.40E-05	6.20E-05	8.61E-05
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	3.45E-08	5.73E-08	9.18E-08	3.83E-07	6.37E-07	1.02E-06	3.52E-07	5.86E-07	9.38E-07	3.37E-07	5.61E-07	8.98E-07
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	-	1.40E-11	-	-	-	2.85E-05	4.78E-05	7.62E-05	3.16E-04	5.31E-04	8.47E-04	2.91E-04	4.88E-04	7.79E-04	2.78E-04	4.67E-04	7.46E-04
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	-	4.32E-11	-	-	-	8.61E-05	1.48E-04	2.34E-04	9.57E-04	1.64E-03	2.60E-03	8.80E-04	1.51E-03	2.39E-03	8.42E-04	1.44E-03	2.28E-03
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	-	1.62E-11	-	-	-	3.52E-05	5.52E-05	9.04E-05	3.91E-04	6.14E-04	1.00E-03	3.59E-04	5.65E-04	9.24E-04	3.44E-04	5.40E-04	8.84E-04
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	-	1.56E-11	-	-	-	3.35E-05	5.33E-05	8.68E-05	3.72E-04	5.92E-04	9.64E-04	3.42E-04	5.44E-04	8.87E-04	3.28E-04	5.21E-04	8.48E-04
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	-	6.04E-11	-	-	-	1.30E-04	2.06E-04	3.36E-04	1.45E-03	2.29E-03	3.74E-03	1.33E-03	2.11E-03	3.44E-03	1.27E-03	2.02E-03	3.29E-03
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	2.74E-07	4.45E-07	7.19E-07	3.05E-06	4.94E-06	7.99E-06	2.80E-06	4.55E-06	7.35E-06	2.68E-06	4.35E-06	7.03E-06
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	4.25E-04	6.64E-04	1.09E-03	4.72E-03	7.38E-03	1.21E-02	4.35E-03	6.79E-03	1.11E-02	4.16E-03	6.49E-03	1.06E-02
Pit F																						
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	2.96E-06	1.70E-04	1.73E-04	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	1.39E-05	8.07E-04	8.21E-04	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	3.97E-06	2.40E-04	2.44E-04	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	3.02E-07	1.78E-05	1.81E-05	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	6.03E-06	3.45E-04	3.51E-04	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	1.32E-06	7.78E-05	7.91E-05	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	1.36E-04	1.48E-02	1.49E-02	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	1.74E-05	1.07E-03	1.09E-03	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	1.24E-06	7.21E-05	7.33E-05	-	-	-	-	-	-	-	-	-	-	-	-
	Totals							0.00	0.02	0.02	0.00	0.00	0.01	0.03	0.05	0.07	0.03	0.04	0.07	0.02	0.04	0.07

Annual

Active/Unstabilized Area Emissions (AE) = $t_{TYP} \times VF_{1\text{-}HR} \times A_S$ *(On-going emissions during the first hour prior to stabilization from temporary portion of excavated area. Emissions calculated for typical workday hours in a day and number of days for each phase.)*

Inactive/Stabilized Area Emissions (SAE) = (1 - MR) × $t_{TYP} \times VF_{1\text{-}DAY} \times A_S$ *(On-going emissions from the stabilized portion of the excavated area plus emissions from the temporary portion of the excavated areas unstabilized during the workday based on 1-day average volatilization factors. Consistent with the stockpile assumptions, the use of 1-day average volatilization factors were used as a conservative assumption, which assumes soil parcels are removed from the surface daily. Emissions calculated for typical workday and overnight hours in a day and number of days for each phase.)*

Total Emissions = AE + SAE

		Active Area Emission Rates		Inactive Area Emission Rates				Emissions (lbs/year)														
						Phase 2.4 / 2.5	All Other Phases	Phase / Subphase No. 2.4 / 2.5			Phase / Subphase No. 3.1			Phase / Subphase No. 3.2			Phase / Subphase No. 8.1 / 8.2			Phase / Subphase No. 9.1 / 9.2		
								Active Area	Inactive Area		Active Area			Active Area	Inactive Area		Active Area	Inactive Area		Active Area	Inactive Area	
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg]	$VF_{1\text{-}HR}$ [Workday]	$VF_{1\text{-}DAY}$ [1 day avg]	$VF_{1\text{-}DAY}$	Mitigated $VF_{1\text{-}DAY}$	Mitigated $VF_{1\text{-}DAY}$	Emissions	Emissions	Total Emissions	Emissions	Inactive Area Emissions	Total Emissions (lbs/year)	Emissions	Emissions	Total Emissions	Emissions	Emissions	Total Emissions	Emissions	Emissions	Total Emissions
		(mg/cm^2-day)	(lbs/cm^2-hour)	(mg/cm^2-day)	(lbs/cm^2-hour)	(lbs/cm^2-hour)	(lbs/cm^2-hour)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)		(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)
Non-Pit F																						
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	-	1.04E-10	-	-	-	3.95E-02	1.65E-01	2.05E-01	2.41E+00	1.01E+01	1.25E+01	1.25E-01	5.22E-01	6.47E-01	2.53E-01	1.06E+00	1.31E+00
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	-	5.99E-12	-	-	-	2.26E-03	9.54E-03	1.18E-02	1.38E-01	5.83E-01	7.21E-01	7.13E-03	3.01E-02	3.73E-02	1.45E-02	6.12E-02	7.56E-02
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	-	5.78E-11	-	-	-	2.19E-02	9.20E-02	1.14E-01	1.34E+00	5.62E+00	6.96E+00	6.93E-02	2.91E-01	3.60E-01	1.41E-01	5.90E-01	7.30E-01
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	-	5.27E-12	-	-	-	2.00E-03	8.39E-03	1.04E-02	1.22E-01	5.13E-01	6.35E-01	6.31E-03	2.65E-02	3.28E-02	1.28E-02	5.38E-02	6.66E-02
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	-	6.63E-12	-	-	-	2.52E-03	1.05E-02	1.31E-02	1.54E-01	6.44E-01	7.98E-01	7.96E-03	3.33E-02	4.13E-02	1.61E-02	6.76E-02	8.38E-02
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	1.11E-04	4.72E-04	5.83E-04	6.81E-03	2.88E-02	3.56E-02	3.52E-04	1.49E-03	1.84E-03	7.15E-04	3.02E-03	3.74E-03
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	-	7.05E-11	-	-	-	2.68E-02	1.12E-01	1.39E-01	1.64E+00	6.85E+00	8.49E+00	8.46E-02	3.54E-01	4.39E-01	1.72E-01	7.19E-01	8.91E-01
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	-	2.03E-11	-	-	-	7.63E-03	3.23E-02	3.99E-02	4.66E-01	1.97E+00	2.44E+00	2.41E-02	1.02E-01	1.26E-01	4.89E-02	2.07E-01	2.56E-01
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	-	4.45E-11	-	-	-	1.69E-02	7.08E-02	8.77E-02	1.03E+00	4.32E+00	5.36E+00	5.35E-02	2.24E-01	2.77E-01	1.09E-01	4.54E-01	5.62E-01
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	-	2.08E-13	-	-	-	7.88E-05	3.30E-04	4.09E-04	4.81E-03	2.02E-02	2.50E-02	2.49E-04	1.04E-03	1.29E-03	5.05E-04	2.12E-03	2.62E-03
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	-	8.08E-13	-	-	-	1.62E-04	1.29E-03	1.45E-03	9.92E-03	7.86E-02	8.85E-02	5.13E-04	4.06E-03	4.58E-03	1.04E-03	8.25E-03	9.29E-03
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	5.30E-06	2.33E-05	2.86E-05	3.23E-04	1.42E-03	1.75E-03	1.67E-05	7.37E-05	9.04E-05	3.39E-05	1.50E-04	1.83E-04
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	7.29E-04	3.04E-03	3.77E-03	4.45E-02	1.86E-01	2.30E-01	2.30E-03	9.61E-03	1.19E-02	4.68E-03	1.95E-02	2.42E-02
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	-	1.55E-14	-	-	-	2.15E-06	2.47E-05	2.68E-05	1.31E-04	1.51E-03	1.64E-03	6.80E-06	7.80E-05	8.48E-05	1.38E-05	1.58E-04	1.72E-04
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	-	3.50E-10	-	-	-	1.32E-01	5.57E-01	6.89E-01	8.07E+00	3.40E+01	4.21E+01	4.18E-01	1.76E+00	2.18E+00	8.47E-01	3.57E+00	4.42E+00
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	-	6.96E-12	-	-	-	2.52E-03	1.11E-02	1.36E-02	1.54E-01	6.77E-01	8.31E-01	7.97E-03	3.50E-02	4.30E-02	1.62E-02	7.10E-02	8.72E-02
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	-	8.68E-11	-	-	-	3.30E-02	1.38E-01	1.71E-01	2.01E+00	8.44E+00	1.05E+01	1.04E-01	4.37E-01	5.41E-01	2.11E-01	8.86E-01	1.10E+00
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	4.65E-05	1.98E-04	2.45E-04	2.84E-03	1.21E-02	1.49E-02	1.47E-04	6.26E-04	7.73E-04	2.98E-04	1.27E-03	1.57E-03
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	-	2.56E-12	-	-	-	9.56E-04	4.08E-03	5.04E-03	5.84E-02	2.49E-01	3.08E-01	3.02E-03	1.29E-02	1.59E-02	6.13E-03	2.62E-02	3.23E-02
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	-	1.49E-11	-	-	-	5.68E-03	2.37E-02	2.94E-02	3.47E-01	1.45E+00	1.80E+00	1.80E-02	7.49E-02	9.29E-02	3.64E-02	1.52E-01	1.88E-01
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	-	1.33E-12	-	-	-	5.09E-04	2.13E-03	2.63E-03	3.11E-02	1.30E-01	1.61E-01	1.61E-03	6.71E-03	8.32E-03	3.26E-03	1.36E-02	1.69E-02
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	6.74E-04	2.81E-03	3.48E-03	4.12E-02	1.71E-01	2.13E-01	2.13E-03	8.87E-03	1.10E-02	4.32E-03	1.80E-02	2.23E-02
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	-	2.07E-11	-	-	-	7.93E-03	3.30E-02	4.10E-02	4.84E-01	2.02E+00	2.50E+00	2.50E-02	1.04E-01	1.29E-01	5.08E-02	2.12E-01	2.63E-01
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	-	4.87E-13	-	-	-	1.82E-04	7.75E-04	9.57E-04	1.11E-02	4.74E-02	5.85E-02	5.74E-04	2.45E-03	3.02E-03	1.16E-03	4.97E-03	6.14E-03
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	4.66E-05	1.98E-04	2.44E-04	2.85E-03	1.21E-02	1.49E-02	1.47E-04	6.25E-04	7.72E-04	2.99E-04	1.27E-03	1.57E-03
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	-	5.67E-12	-	-	-	1.65E-03	9.03E-03	1.07E-02	1.01E-01	5.51E-01	6.52E-01	5.23E-03	2.85E-02	3.37E-02	1.06E-02	5.79E-02	6.85E-02
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	-	4.97E-11	-	-	-	1.00E-02	7.91E-02	8.91E-02	6.11E-01	4.83E+00	5.44E+00	3.16E-02	2.50E-01	2.82E-01	6.41E-02	5.07E-01	5.71E-01
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	-	1.86E-12	-	-	-	4.29E-04	2.96E-03	3.39E-03	2.62E-02	1.81E-01	2.07E-01	1.36E-03	9.34E-03	1.07E-02	2.75E-03	1.90E-02	2.17E-02
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	6.02E-06	2.67E-05	3.27E-05	3.68E-04	1.63E-03	2.00E-03	1.90E-05	8.44E-05	1.03E-04	3.86E-05	1.71E-04	2.10E-04
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	-	1.40E-11	-	-	-	4.97E-03	2.23E-02	2.72E-02	3.04E-01	1.36E+00	1.66E+00	1.57E-02	7.03E-02	8.60E-02	3.19E-02	1.43E-01	1.75E-01
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	-	4.32E-11	-	-	-	1.50E-02	6.87E-02	8.38E-02	9.19E-01	4.20E+00	5.12E+00	4.75E-02	2.17E-01	2.65E-01	9.64E-02	4.41E-01	5.37E-01
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	-	1.62E-11	-	-	-	6.14E-03	2.57E-02	3.19E-02	3.75E-01	1.57E+00	1.95E+00	1.94E-02	8.13E-02	1.01E-01	3.94E-02	1.65E-01	2.04E-01
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	-	1.56E-11	-	-	-	5.85E-03	2.48E-02	3.07E-02	3.58E-01	1.52E+00	1.87E+00	1.85E-02	7.84E-02	9.69E-02	3.75E-02	1.59E-01	1.97E-01
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	-	6.04E-11	-	-	-	2.27E-02	9.61E-02	1.19E-01	1.39E+00	5.87E+00	7.26E+00	7.18E-02	3.04E-01	3.76E-01	1.46E-01	6.16E-01	7.62E-01
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	4.79E-05	2.07E-04	2.55E-04	2.93E-03	1.27E-02	1.56E-02	1.51E-04	6.55E-04	8.06E-04	3.07E-04	1.33E-03	1.64E-03
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	7.43E-02	3.09E-01	3.84E-01	4.54E+00	1.89E+01	2.34E+01	2.35E-01	9.77E-01	1.21E+00	4.76E-01	1.98E+00	2.46E+00
Pit F																						
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	3.19E-04	4.90E-02	4.94E-02	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	1.50E-03	2.32E-01	2.34E-01	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	4.28E-04	6.91E-02	6.95E-02	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	3.27E-05	5.11E-03	5.15E-03	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	6.51E-04	9.95E-02	1.00E-01	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	1.43E-04	2.24E-02	2.26E-02	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	1.46E-02	4.26E+00	4.27E+00	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	1.88E-03	3.08E-01	3.10E-01	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	1.34E-04	2.08E-02	2.09E-02	-	-	-	-	-	-	-	-	-	-	-	-
	Totals							**0.02**	**5.06**	**5.08**	**0.45**	**1.92**	**2.36**	**27.21**	**117.14**	**144.35**	**1.41**	**6.06**	**7.47**	**2.86**	**12.29**	**15.15**

ASCON AQ/HRA - Emissions Inventory
Vehicle Disturbance VOC Emissions from Temporary Pit F Haul Road

Emissions Equation

Emissions (lb/time) = t x VF x A_S

Where
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).

Vehicle Disturbance Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstablized area emissions from vehicles traveling over new roadways.
Vehicle Area Disturbance (New Road for Pit F Area)	4.70E+06	cm2	Estimated vehicle area disturbance caused by vehicles traveling over contaminated soil, converted to units of cm2.

Phases with New Vehicle Disturbance Areas (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days
Pit F - Slurry Trench Excavation(waste in bins)/Transport and Dispose of Impacted Material	2.4 / 2.5	16

Emissions Calculations

Maximum Hourly

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}HR} \times A_{S,U}$ *(Emissions during the first hour from vehicle travel causing disturbance of contaminated soil.)*

Inactive/Stabilized Area Emissions (SAE) = $(1 - MR) \times VF_{1\text{-}DAY} \times A_S$ *(No stablized area since vehicles would be traveling over the roadway during the remediation action.)*

Total Emissions = AE + SAE

		Active Area Emission Rates						Emissions (lbs/hour)		
								Phase / Subphase No. 2.4 / 2.5		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	$VF_{16\text{-}DAY}$ [16 day avg] (mg/cm^2-day)	$VF_{16\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)
Haul Road Traverses over Surface Layer of "Non-Pit F" Areas										
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	3.14E-03	2.89E-10	1.69E-02	-	1.69E-02
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	1.82E-04	1.67E-11	9.67E-04	-	9.67E-04
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	1.75E-03	1.61E-10	9.41E-03	-	9.41E-03
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	1.60E-04	1.47E-11	8.57E-04	-	8.57E-04
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	2.01E-04	1.85E-11	1.08E-03	-	1.08E-03
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	9.02E-06	8.28E-13	4.78E-05	-	4.78E-05
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	2.14E-03	1.96E-10	1.15E-02	-	1.15E-02
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	6.17E-04	5.66E-11	3.27E-03	-	3.27E-03
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	1.35E-03	1.24E-10	7.27E-03	-	7.27E-03
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	6.29E-06	5.78E-13	3.38E-05	-	3.38E-05
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	3.46E-05	3.18E-12	6.97E-05	-	6.97E-05
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	4.52E-07	4.15E-14	2.27E-06	-	2.27E-06
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	5.79E-05	5.31E-12	3.13E-04	-	3.13E-04
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	1.20E-06	1.10E-13	9.23E-07	-	9.23E-07
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	1.06E-02	9.76E-10	5.67E-02	-	5.67E-02
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	2.15E-04	1.97E-11	1.08E-03	-	1.08E-03
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	2.63E-03	2.42E-10	1.42E-02	-	1.42E-02
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	3.79E-06	3.48E-13	2.00E-05	-	2.00E-05
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	7.82E-05	7.18E-12	4.10E-04	-	4.10E-04
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	4.51E-04	4.14E-11	2.44E-03	-	2.44E-03
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	4.04E-05	3.71E-12	2.18E-04	-	2.18E-04
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	5.34E-05	4.90E-12	2.89E-04	-	2.89E-04
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	6.28E-04	5.77E-11	3.40E-03	-	3.40E-03
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	1.49E-05	1.37E-12	7.79E-05	-	7.79E-05
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	3.78E-06	3.48E-13	2.00E-05	-	2.00E-05
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	1.91E-04	1.75E-11	7.10E-04	-	7.10E-04
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	2.13E-03	1.96E-10	4.29E-03	-	4.29E-03
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	7.11E-05	6.53E-12	1.84E-04	-	1.84E-04
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	5.19E-07	4.77E-14	2.58E-06	-	2.58E-06
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	4.34E-04	3.99E-11	2.13E-03	-	2.13E-03
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	1.35E-03	1.24E-10	6.45E-03	-	6.45E-03
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	4.90E-04	4.50E-11	2.63E-03	-	2.63E-03
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	4.74E-04	4.36E-11	2.51E-03	-	2.51E-03
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	1.84E-03	1.69E-10	9.75E-03	-	9.75E-03
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	3.99E-06	3.67E-13	2.06E-05	-	2.06E-05
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	5.88E-03	5.40E-10	3.19E-02	-	3.19E-02
	Totals							**0.19**	**0.00**	**0.19**

Annual

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}DAY} \times A_{S,U}$ *(Emissions during the first day from vehicle travel causing disturbance of contaminated soil, multiplied by the number of days during the remediation action.)*

Inactive/Stabilized Area Emissions (SAE) = $(1 - MR) \times VF_{1\text{-}DAY} \times A_S$ *(No stablized area since vehicles would be traveling over the roadway during the remediation action.)*

Total Emissions = AE + SAE

		Active Area Emission Rates						Emissions (lbs/year)		
								Phase / Subphase No. 2.4 / 2.5		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	$VF_{16\text{-}DAY}$ [16 day avg] (mg/cm^2-day)	$VF_{16\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)
Haul Road Traverses over Surface Layer of "Non-Pit F" Areas										
100-41-4	Ethylbenzene	3.92E-02	3.60E-09	1.25E-02	1.15E-09	3.14E-03	2.89E-10	5.21E-01	-	5.21E-01
100-42-5	Styrene	2.24E-03	2.06E-10	7.25E-04	6.66E-11	1.82E-04	1.67E-11	3.02E-02	-	3.02E-02
103-65-1	n-Propylbenzene	2.18E-02	2.00E-09	6.99E-03	6.42E-10	1.75E-03	1.61E-10	2.90E-01	-	2.90E-01
104-51-8	n-Butylbenzene	1.98E-03	1.82E-10	6.38E-04	5.86E-11	1.60E-04	1.47E-11	2.65E-02	-	2.65E-02
106-42-3	P-XYLENE	2.50E-03	2.30E-10	8.01E-04	7.36E-11	2.01E-04	1.85E-11	3.33E-02	-	3.33E-02
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	9.02E-06	8.28E-13	1.50E-03	-	1.50E-03
108-38-3	M-XYLENE	2.66E-02	2.44E-09	8.52E-03	7.83E-10	2.14E-03	1.96E-10	3.54E-01	-	3.54E-01
108-67-8	1,3,5-Trimethylbenzene	7.58E-03	6.96E-10	2.45E-03	2.25E-10	6.17E-04	5.66E-11	1.02E-01	-	1.02E-01
108-88-3	Toluene	1.68E-02	1.55E-09	5.38E-03	4.94E-10	1.35E-03	1.24E-10	2.23E-01	-	2.23E-01
108-90-7	Chlorobenzene	7.83E-05	7.19E-12	2.51E-05	2.31E-12	6.29E-06	5.78E-13	1.04E-03	-	1.04E-03
120-12-7	Anthracene	1.61E-04	1.48E-11	9.77E-05	8.98E-12	3.46E-05	3.18E-12	5.74E-03	-	5.74E-03
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	4.52E-07	4.15E-14	7.50E-05	-	7.50E-05
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	5.79E-05	5.31E-12	9.59E-03	-	9.59E-03
129-00-0	Pyrene	2.14E-06	1.96E-13	1.88E-06	1.72E-13	1.20E-06	1.10E-13	1.98E-04	-	1.98E-04
1330-20-7	XYLENES (TOTAL)	1.31E-01	1.21E-08	4.23E-02	3.89E-09	1.06E-02	9.76E-10	1.76E+00	-	1.76E+00
135-98-8	(1-METHYLPROPYL)BENZENE	2.51E-03	2.30E-10	8.42E-04	7.73E-11	2.15E-04	1.97E-11	3.56E-02	-	3.56E-02
179601-23-1	m,p-Xylenes	3.28E-02	3.01E-09	1.05E-02	9.65E-10	2.63E-03	2.42E-10	4.37E-01	-	4.37E-01
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	3.79E-06	3.48E-13	6.29E-04	-	6.29E-04
67-64-1	2-PROPANONE	9.50E-04	8.72E-11	3.10E-04	2.85E-11	7.82E-05	7.18E-12	1.30E-02	-	1.30E-02
71-43-2	Benzene	5.65E-03	5.19E-10	1.80E-03	1.65E-10	4.51E-04	4.14E-11	7.48E-02	-	7.48E-02
75-09-2	Methylene Chloride	5.06E-04	4.65E-11	1.61E-04	1.48E-11	4.04E-05	3.71E-12	6.70E-03	-	6.70E-03
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	5.34E-05	4.90E-12	8.85E-03	-	8.85E-03
75-69-4	Trichlorofluoromethane	7.88E-03	7.24E-10	2.51E-03	2.31E-10	6.28E-04	5.77E-11	1.04E-01	-	1.04E-01
78-93-3	2-Butanone	1.80E-04	1.66E-11	5.89E-05	5.41E-12	1.49E-05	1.37E-12	2.46E-03	-	2.46E-03
79-34-5	1,1,2,2-Tetrachloroethane	4.63E-05	4.26E-12	1.50E-05	1.38E-12	3.78E-06	3.48E-13	6.27E-04	-	6.27E-04
83-32-9	Acenaphthene	1.64E-03	1.51E-10	6.86E-04	6.30E-11	1.91E-04	1.75E-11	3.16E-02	-	3.16E-02
85-01-8	Phenanthrene	9.93E-03	9.12E-10	6.01E-03	5.52E-10	2.13E-03	1.96E-10	3.53E-01	-	3.53E-01
86-73-7	Fluorene	4.27E-04	3.92E-11	2.25E-04	2.06E-11	7.11E-05	6.53E-12	1.18E-02	-	1.18E-02
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	5.19E-07	4.77E-14	8.61E-05	-	8.61E-05
91-20-3	Naphthalene	4.94E-03	4.54E-10	1.69E-03	1.55E-10	4.34E-04	3.99E-11	7.20E-02	-	7.20E-02
91-57-6	2-Methylnaphthalene	1.49E-02	1.37E-09	5.22E-03	4.80E-10	1.35E-03	1.24E-10	2.24E-01	-	2.24E-01
95-47-6	o-Xylene	6.10E-03	5.61E-10	1.96E-03	1.80E-10	4.90E-04	4.50E-11	8.13E-02	-	8.13E-02
95-50-1	1,2-Dichlorobenzene	5.82E-03	5.34E-10	1.88E-03	1.73E-10	4.74E-04	4.36E-11	7.87E-02	-	7.87E-02
95-63-6	1,2,4-Trimethylbenzene	2.26E-02	2.08E-09	7.30E-03	6.71E-10	1.84E-03	1.69E-10	3.04E-01	-	3.04E-01
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	3.99E-06	3.67E-13	6.61E-04	-	6.61E-04
98-82-8	1-METHYLETHYLBENZENE	7.38E-02	6.78E-09	2.35E-02	2.16E-09	5.88E-03	5.40E-10	9.75E-01	-	9.75E-01
	Totals							**6.18**	**0.00**	**6.18**

ASCON AQ/HRA - Emissions Inventory
Stabilized Surface VOC Emissions (Prior to Backfilling/Cap Installation)

Emissions Equation

Emissions (lb/time) = (1 - MR) x t x VF x A_S

Where
MR = Mitigation (% Reduction)
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: USEPA, Control of Air Emissions from Superfund Sites, (1992). Long-term VOC control efficiency ranges from 91 to 100%.

Stabilized Surface Area Volatilization Assumptions

Parameter	Value	Units	References
Stabilized Surface Area Emission Rate	Varies by Chemical	mass/area-time	Horizontal surface area that is stabilized and passively volatilzing prior to installation of the cap. This is calculated as the area that would be covered by the cap and not backfilled/capped using a volitalization factor based on the number of days between the start of Phase 3.2 and the completion date of Phase 6 (approximately 164 days).
Stabilized Surface Area Emission Duration	164	days	Number of days between the start of Phase 3.2 and the completion date of Phase 6 (approximately 164 days).
Area under Cap	1.22E+08	cm2	Estimated area where material is deposited and not yet backfilled/capped. Estimated as the area of Lagoons 1 and 2, where the material is to be deposited.
Area under Cap	3.0	acres	Estimated area where material is deposited and not yet backfilled/capped. Estimated as the area of Lagoons 1 and 2, where the material is to be deposited.
Percent of Area Controlled	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).

Emissions Calculations

Maximum Daily

		Stabilized Area Emission Rates			Emissions	
				Phase 3.2	Phase 3.2	Phase 3.2
CAS No.	Chemical	$VF_{164\text{-}DAY}$ [164 day avg] (mg/cm^2-day)	$VF_{164\text{-}DAY}$ (lbs/cm^2-hour)	Mitigated $VF_{164\text{-}DAY}$ (lbs/cm^2-hour)	Total Emissions (lbs/hour)	Total Emissions (lbs/year)
100-41-4	Ethylbenzene	9.83E-04	9.03E-11	8.13E-12	5.99E-03	2.36E+01
100-42-5	Styrene	5.70E-05	5.24E-12	4.71E-13	3.47E-04	1.37E+00
103-65-1	n-Propylbenzene	5.48E-04	5.03E-11	4.53E-12	3.34E-03	1.31E+01
104-51-8	n-Butylbenzene	5.00E-05	4.60E-12	4.14E-13	3.05E-04	1.20E+00
106-42-3	P-XYLENE	6.28E-05	5.77E-12	5.19E-13	3.83E-04	1.51E+00
106-93-4	1,2-Dibromoethane	2.82E-06	2.59E-13	2.33E-14	1.72E-05	6.77E-02
108-38-3	M-XYLENE	6.68E-04	6.13E-11	5.52E-12	4.07E-03	1.60E+01
108-67-8	1,3,5-Trimethylbenzene	1.93E-04	1.77E-11	1.59E-12	1.18E-03	4.63E+00
108-88-3	Toluene	4.21E-04	3.87E-11	3.48E-12	2.57E-03	1.01E+01
108-90-7	Chlorobenzene	1.97E-06	1.81E-13	1.63E-14	1.20E-05	4.72E-02
120-12-7	Anthracene	1.19E-05	1.09E-12	9.81E-14	7.23E-05	2.85E-01
120-82-1	1,2,4-Trichlorobenzene	1.42E-07	1.30E-14	1.17E-15	8.65E-07	3.40E-03
127-18-4	Tetrachloroethene	1.81E-05	1.66E-12	1.49E-13	1.10E-04	4.33E-01
129-00-0	Pyrene	5.64E-07	5.18E-14	4.66E-15	3.43E-06	1.35E-02
1330-20-7	XYLENES (TOTAL)	3.32E-03	3.05E-10	2.75E-11	2.03E-02	7.97E+01
135-98-8	(1-METHYLPROPYL)BENZENE	6.73E-05	6.19E-12	5.57E-13	4.10E-04	1.62E+00
179601-23-:	m,p-Xylenes	8.23E-04	7.56E-11	6.80E-12	5.01E-03	1.97E+01
591-78-6	2-Hexanone	1.19E-06	1.09E-13	9.81E-15	7.23E-06	2.85E-02
67-64-1	2-PROPANONE	2.45E-05	2.25E-12	2.02E-13	1.49E-04	5.87E-01
71-43-2	Benzene	1.41E-04	1.29E-11	1.16E-12	8.58E-04	3.38E+00
75-09-2	Methylene Chloride	1.26E-05	1.16E-12	1.04E-13	7.70E-05	3.03E-01
75-35-4	1,1-Dichloroethene	1.61E-05	1.48E-12	1.33E-13	9.82E-05	3.86E-01
75-69-4	Trichlorofluoromethane	1.93E-04	1.77E-11	1.59E-12	1.17E-03	4.62E+00
78-93-3	2-Butanone	4.65E-06	4.28E-13	3.85E-14	2.84E-05	1.12E-01
79-34-5	1,1,2,2-Tetrachloroethane	1.18E-06	1.09E-13	9.79E-15	7.21E-06	2.84E-02
83-32-9	Acenaphthene	6.11E-05	5.61E-12	5.05E-13	3.72E-04	1.46E+00
85-01-8	Phenanthrene	7.29E-04	6.70E-11	6.03E-12	4.44E-03	1.75E+01
86-73-7	Fluorene	2.36E-05	2.16E-12	1.95E-13	1.44E-04	5.65E-01
87-61-6	1,2,3-Trichlorobenzene	1.63E-07	1.50E-14	1.35E-15	9.94E-07	3.91E-03
91-20-3	Naphthalene	1.36E-04	1.25E-11	1.13E-12	8.31E-04	3.27E+00
91-57-6	2-Methylnaphthalene	4.25E-04	3.91E-11	3.51E-12	2.59E-03	1.02E+01
95-47-6	o-Xylene	1.53E-04	1.41E-11	1.27E-12	9.34E-04	3.67E+00
95-50-1	1,2-Dichlorobenzene	1.48E-04	1.36E-11	1.23E-12	9.04E-04	3.56E+00
95-63-6	1,2,4-Trimethylbenzene	5.74E-04	5.28E-11	4.75E-12	3.50E-03	1.38E+01
96-12-8	1,2-Dibromo-3-Chloropropane	1.25E-06	1.15E-13	1.03E-14	7.62E-06	3.00E-02
98-82-8	1-METHYLETHYLBENZENE	1.70E-03	1.56E-10	1.40E-11	1.03E-02	4.07E+01
	Total				**0.07**	**277.61**

ASCON Health Risk Assessment
Summary of Estimated VOC Emissions - Alternative 6
Table 45

Compound	CAS Number	VOC Emissions													
		Phase 2.4		Phase 3.1		Phase 4a.3		Phase 4b.3		Phase 4c.3		Phase 4d.3		Phase 7.1	
		Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year
Non-Pit F															
Ethylbenzene	100-41-4	2.60E-01	2.01E+01	1.11E-01	1.81E+02	1.11E-01	1.37E+02	1.11E-01	2.41E+02	1.11E-01	2.30E+02	1.11E-01	4.78E+02	1.19E-01	1.77E+01
Styrene	100-42-5	6.59E-02	5.18E+00	2.85E-02	4.65E+01	2.85E-02	3.51E+01	2.85E-02	6.16E+01	2.85E-02	5.88E+01	2.85E-02	1.22E+02	3.05E-02	4.53E+00
2-PROPYL-1-HEPTANOL	10042-59-8	5.36E-03	6.29E-01	2.84E-03	4.82E+00	2.84E-03	3.64E+00	2.84E-03	6.40E+00	2.84E-03	6.10E+00	2.84E-03	1.27E+01	3.03E-03	4.69E-01
n-Propylbenzene	103-65-1	2.68E-02	2.08E+00	1.15E-02	1.87E+01	1.15E-02	1.41E+01	1.15E-02	2.48E+01	1.15E-02	2.37E+01	1.15E-02	4.93E+01	1.23E-02	1.82E+00
n-Butylbenzene	104-51-8	3.76E-03	2.93E-01	1.62E-03	2.63E+00	1.62E-03	1.99E+00	1.62E-03	3.49E+00	1.62E-03	3.33E+00	1.62E-03	6.93E+00	1.73E-03	2.57E-01
P-XYLENE	106-42-3	7.53E-03	5.83E-01	3.23E-03	5.26E+00	3.23E-03	3.97E+00	3.23E-03	6.98E+00	3.23E-03	6.65E+00	3.23E-03	1.38E+01	3.46E-03	5.13E-01
4-Chlorotoluene	106-43-4	8.11E-03	6.41E-01	3.51E-03	5.74E+00	3.51E-03	4.33E+00	3.51E-03	7.61E+00	3.51E-03	7.26E+00	3.51E-03	1.51E+01	3.76E-03	5.59E-01
1,4-Dichlorobenzene	106-46-7	1.87E-03	1.47E-01	8.10E-04	1.32E+00	8.10E-04	9.98E-01	8.10E-04	1.75E+00	8.10E-04	1.67E+00	8.10E-04	3.48E+00	8.67E-04	1.29E-01
1,2-Dibromoethane	106-93-4	4.78E-05	3.76E-03	2.07E-05	3.37E-02	2.07E-05	2.55E-02	2.07E-05	4.48E-02	2.07E-05	4.27E-02	2.07E-05	8.88E-02	2.21E-05	3.29E-03
1,2-Dichloroethane	107-06-2	2.17E-01	1.68E+01	9.29E-02	1.51E+02	9.29E-02	1.14E+02	9.29E-02	2.01E+02	9.29E-02	1.91E+02	9.29E-02	3.98E+02	9.95E-02	1.47E+01
M-XYLENE	108-38-3	4.77E-01	3.70E+01	2.05E-01	3.34E+02	2.05E-01	2.52E+02	2.05E-01	4.42E+02	2.05E-01	4.22E+02	2.05E-01	8.78E+02	2.19E-01	3.25E+01
1,3,5-Trimethylbenzene	108-67-8	7.32E-03	5.75E-01	3.16E-03	5.16E+00	3.16E-03	3.90E+00	3.16E-03	6.84E+00	3.16E-03	6.53E+00	3.16E-03	1.36E+01	3.39E-03	5.03E-01
Toluene	108-88-3	2.60E-02	2.01E+00	1.11E-02	1.81E+01	1.11E-02	1.37E+01	1.11E-02	2.40E+01	1.11E-02	2.29E+01	1.11E-02	4.77E+01	1.19E-02	1.77E+00
Chlorobenzene	108-90-7	1.12E-01	8.66E+00	4.79E-02	7.80E+01	4.79E-02	5.89E+01	4.79E-02	1.04E+02	4.79E-02	9.87E+01	4.79E-02	2.05E+02	5.13E-02	7.61E+00
Anthracene	120-12-7	3.28E-05	7.36E-03	2.31E-05	4.10E-02	2.31E-05	3.10E-02	2.31E-05	5.44E-02	2.31E-05	5.19E-02	2.31E-05	1.08E-01	2.47E-05	3.97E-03
1,2,4-Trichlorobenzene	120-82-1	2.27E-06	1.89E-04	1.01E-06	1.66E-03	1.01E-06	1.25E-03	1.01E-06	2.20E-03	1.01E-06	2.10E-03	1.01E-06	4.37E-03	1.08E-06	1.62E-04
Tetrachloroethene	127-18-4	3.13E-04	2.41E-02	1.34E-04	2.18E-01	1.34E-04	1.65E-01	1.34E-04	2.89E-01	1.34E-04	2.76E-01	1.34E-04	5.74E-01	1.43E-04	2.12E-02
Pyrene	129-00-0	4.98E-07	3.82E-04	4.82E-07	8.85E-04	4.82E-07	6.68E-04	4.82E-07	1.17E-03	4.82E-07	1.12E-03	4.82E-07	2.33E-03	5.14E-07	8.55E-05
Dibenzofuran	132-64-9	1.93E-06	1.63E-03	1.89E-06	3.48E-03	1.89E-06	2.63E-03	1.89E-06	4.62E-03	1.89E-06	4.40E-03	1.89E-06	9.16E-03	2.02E-06	3.36E-04
XYLENES (TOTAL)	1330-20-7	5.14E-02	4.02E+00	2.22E-02	3.61E+01	2.22E-02	2.73E+01	2.22E-02	4.79E+01	2.22E-02	4.57E+01	2.22E-02	9.51E+01	2.37E-02	3.52E+00
(1-METHYLPROPYL)BENZENE	135-98-8	1.70E-02	1.41E+00	7.53E-03	1.24E+01	7.53E-03	9.34E+00	7.53E-03	1.64E+01	7.53E-03	1.57E+01	7.53E-03	3.26E+01	8.07E-03	1.21E+00
6-METHYL-1,1-HEPTANOL	1653-40-3	8.10E-02	6.67E+00	3.59E-02	5.88E+01	3.59E-02	4.44E+01	3.59E-02	7.80E+01	3.59E-02	7.44E+01	3.59E-02	1.55E+02	3.84E-02	5.73E+00
m,p-Xylenes	179601-23-1	3.92E-02	3.04E+00	1.68E-02	2.74E+01	1.68E-02	2.07E+01	1.68E-02	3.64E+01	1.68E-02	3.47E+01	1.68E-02	7.22E+01	1.80E-02	2.67E+00
(1,1-DIMETHYLBUTYL)BENZENE	1985-57-5	3.15E-02	2.46E+00	1.36E-02	2.21E+01	1.36E-02	1.67E+01	1.36E-02	2.94E+01	1.36E-02	2.80E+01	1.36E-02	5.83E+01	1.45E-02	2.16E+00
(1,1-DIMETHYLPROPYL)BENZENE	2049-95-8	9.69E-02	7.56E+00	4.17E-02	6.80E+01	4.17E-02	5.13E+01	4.17E-02	9.02E+01	4.17E-02	8.60E+01	4.17E-02	1.79E+02	4.47E-02	6.63E+00
6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	22531-20-0	1.80E-02	1.44E+00	7.84E-03	1.28E+01	7.84E-03	9.69E+00	7.84E-03	1.70E+01	7.84E-03	1.62E+01	7.84E-03	3.38E+01	8.40E-03	1.25E+00
1-(1-METHYLETHENYL)-4-PROPYLBENZENE	22975-62-8	2.81E-02	2.20E+00	1.21E-02	1.98E+01	1.21E-02	1.49E+01	1.21E-02	2.62E+01	1.21E-02	2.50E+01	1.21E-02	5.21E+01	1.30E-02	1.93E+00
ISOOCTANOL	26952-21-6	2.97E-02	2.45E+00	1.31E-02	2.16E+01	1.31E-02	1.63E+01	1.31E-02	2.86E+01	1.31E-02	2.73E+01	1.31E-02	5.68E+01	1.41E-02	2.10E+00
(1-METHYLBUTYL)BENZENE	2719-52-0	6.39E-02	4.99E+00	2.75E-02	4.49E+01	2.75E-02	3.39E+01	2.75E-02	5.95E+01	2.75E-02	5.68E+01	2.75E-02	1.18E+02	2.95E-02	4.38E+00
2-METHYLDECAHYDRONAPHTHALENE	2958-76-1	7.27E-01	5.60E+01	3.11E-01	5.06E+02	3.11E-01	3.82E+02	3.11E-01	6.72E+02	3.11E-01	6.41E+02	3.11E-01	1.33E+03	3.33E-01	4.94E+01
1-METHYLETHYLCYCLOPENTANE	3875-51-2	3.66E-01	2.71E+01	1.57E-01	2.55E+02	1.57E-01	1.92E+02	1.57E-01	3.38E+02	1.57E-01	3.22E+02	1.57E-01	6.71E+02	1.68E-01	2.48E+01
1-ETHYL-4-(1-METHYLETHYL)BENZENE	4218-48-8	2.74E-02	2.15E+00	1.18E-02	1.93E+01	1.18E-02	1.46E+01	1.18E-02	2.56E+01	1.18E-02	2.44E+01	1.18E-02	5.08E+01	1.27E-02	1.88E+00
OCTAHYDROINDENE	496-10-6	1.83E+00	1.40E+02	7.82E-01	1.27E+03	7.82E-01	9.61E+02	7.82E-01	1.69E+03	7.82E-01	1.61E+03	7.82E-01	3.35E+03	8.38E-01	1.24E+02
1,2,3,5-TETRAMETHYLBENZENE	527-53-7	8.24E-02	6.44E+00	3.55E-02	5.79E+01	3.55E-02	4.37E+01	3.55E-02	7.68E+01	3.55E-02	7.33E+01	3.55E-02	1.52E+02	3.80E-02	5.64E+00
(1-PROPENYL)CYCLOHEXANE	5364-83-0	2.44E+00	1.87E+02	1.04E+00	1.69E+03	1.04E+00	1.28E+03	1.04E+00	2.25E+03	1.04E+00	2.14E+03	1.04E+00	4.46E+03	1.11E+00	1.65E+02
4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	54340-86-2	1.26E-02	9.93E-01	5.45E-03	8.89E+00	5.45E-03	6.72E+00	5.45E-03	1.18E+01	5.45E-03	1.13E+01	5.45E-03	2.34E+01	5.83E-03	8.67E-01
1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	5557-93-7	4.34E-02	3.44E+00	1.88E-02	3.08E+01	1.88E-02	2.32E+01	1.88E-02	4.08E+01	1.88E-02	3.89E+01	1.88E-02	8.10E+01	2.02E-02	3.00E+00
2-Hexanone	591-78-6	2.00E-05	1.58E-03	8.66E-06	1.42E-02	8.66E-06	1.07E-02	8.66E-06	1.88E-02	8.66E-06	1.79E-02	8.66E-06	3.73E-02	9.28E-06	1.38E-03
2-PROPANONE	67-64-1	1.02E-02	8.10E-01	4.43E-03	7.23E+00	4.43E-03	5.46E+00	4.43E-03	9.60E+00	4.43E-03	9.15E+00	4.43E-03	1.90E+01	4.74E-03	7.05E-01
Chloroform	67-66-3	8.92E-01	6.88E+01	3.82E-01	6.22E+02	3.82E-01	4.69E+02	3.82E-01	8.25E+02	3.82E-01	7.87E+02	3.82E-01	1.64E+03	4.09E-01	6.06E+01
Benzene	71-43-2	2.19E-02	1.69E+00	9.37E-03	1.53E+01	9.37E-03	1.15E+01	9.37E-03	2.02E+01	9.37E-03	1.93E+01	9.37E-03	4.02E+01	1.00E-02	1.49E+00
1,1,1-Trichloroethane	71-55-6	6.00E-01	4.62E+01	2.56E-01	4.17E+02	2.56E-01	3.15E+02	2.56E-01	5.54E+02	2.56E-01	5.28E+02	2.56E-01	1.10E+03	2.75E-01	4.07E+01
Methylene Chloride	75-09-2	2.78E-02	2.15E+00	1.19E-02	1.94E+01	1.19E-02	1.47E+01	1.19E-02	2.57E+01	1.19E-02	2.45E+01	1.19E-02	5.11E+01	1.28E-02	1.89E+00
1,1-Dichloroethane	75-34-3	2.66E-02	2.05E+00	1.14E-02	1.86E+01	1.14E-02	1.40E+01	1.14E-02	2.46E+01	1.14E-02	2.35E+01	1.14E-02	4.88E+01	1.22E-02	1.81E+00

ASCON Health Risk Assessment
Summary of Estimated VOC Emissions - Alternative 6
Table 45

Compound	CAS Number	VOC Emissions													
		Phase 2.4		Phase 3.1		Phase 4a.3		Phase 4b.3		Phase 4c.3		Phase 4d.3		Phase 7.1	
		Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year	Pounds per Hour	Pounds per Year
Non-Pit F															
1,1-Dichloroethene	75-35-4	2.89E-04	2.20E-02	1.24E-04	2.01E-01	1.24E-04	1.52E-01	1.24E-04	2.67E-01	1.24E-04	2.54E-01	1.24E-04	5.29E-01	1.32E-04	1.96E-02
Trichlorofluoromethane	75-69-4	1.66E-02	1.27E+00	7.09E-03	1.15E+01	7.09E-03	8.71E+00	7.09E-03	1.53E+01	7.09E-03	1.46E+01	7.09E-03	3.04E+01	7.59E-03	1.13E+00
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	2.70E-01	2.08E+01	1.15E-01	1.88E+02	1.15E-01	1.42E+02	1.15E-01	2.49E+02	1.15E-01	2.38E+02	1.15E-01	4.95E+02	1.24E-01	1.83E+01
2-Butanone	78-93-3	2.79E-03	2.23E-01	1.22E-03	1.99E+00	1.22E-03	1.50E+00	1.22E-03	2.64E+00	1.22E-03	2.51E+00	1.22E-03	5.23E+00	1.30E-03	1.94E-01
1,1,2,2-Tetrachloroethane	79-34-5	6.48E-04	5.12E-02	2.81E-04	4.58E-01	2.81E-04	3.46E-01	2.81E-04	6.08E-01	2.81E-04	5.80E-01	2.81E-04	1.21E+00	3.01E-04	4.47E-02
Acenaphthene	83-32-9	6.39E-05	7.31E-03	3.34E-05	5.66E-02	3.34E-05	4.28E-02	3.34E-05	7.51E-02	3.34E-05	7.16E-02	3.34E-05	1.49E-01	3.57E-05	5.50E-03
Phenanthrene	85-01-8	3.24E-03	7.26E-01	2.29E-03	4.06E+00	2.29E-03	3.06E+00	2.29E-03	5.38E+00	2.29E-03	5.13E+00	2.29E-03	1.07E+01	2.44E-03	3.93E-01
Fluorene	86-73-7	1.10E-04	1.86E-02	6.92E-05	1.21E-01	6.92E-05	9.13E-02	6.92E-05	1.60E-01	6.92E-05	1.53E-01	6.92E-05	3.18E-01	7.39E-05	1.17E-02
1,2,3-Trichlorobenzene	87-61-6	2.58E-06	2.17E-04	1.16E-06	1.90E-03	1.16E-06	1.43E-03	1.16E-06	2.52E-03	1.16E-06	2.40E-03	1.16E-06	5.00E-03	1.24E-06	1.85E-04
DECAHYDRONAPHTHALENE	91-17-8	1.24E-01	2.05E-06	1.47E-02	9.71E+00	1.47E-02	7.33E+00	1.47E-02	1.29E+01	1.47E-02	1.23E+01	1.47E-02	2.56E+01	1.61E-02	1.06E+00
Naphthalene	91-20-3	1.68E-02	1.44E+00	7.58E-03	1.25E+01	7.58E-03	9.43E+00	7.58E-03	1.66E+01	7.58E-03	1.58E+01	7.58E-03	3.29E+01	8.12E-03	1.22E+00
2-Methylnaphthalene	91-57-6	5.50E-03	4.83E-01	2.51E-03	4.15E+00	2.51E-03	3.14E+00	2.51E-03	5.51E+00	2.51E-03	5.26E+00	2.51E-03	1.09E+01	2.69E-03	4.05E-01
1,1,4-6-TETRAMETHYLINDANE	941-60-6	6.54E-03	5.32E-01	2.87E-03	4.71E+00	2.87E-03	3.56E+00	2.87E-03	6.25E+00	2.87E-03	5.96E+00	2.87E-03	1.24E+01	3.08E-03	4.59E-01
o-Xylene	95-47-6	1.85E-02	1.44E+00	7.96E-03	1.30E+01	7.96E-03	9.79E+00	7.96E-03	1.72E+01	7.96E-03	1.64E+01	7.96E-03	3.41E+01	8.53E-03	1.26E+00
1,2-Dichlorobenzene	95-50-1	1.12E-03	8.82E-02	4.84E-04	7.91E-01	4.84E-04	5.97E-01	4.84E-04	1.05E+00	4.84E-04	1.00E+00	4.84E-04	2.08E+00	5.19E-04	7.71E-02
1,2,4-Trimethylbenzene	95-63-6	2.29E-02	1.80E+00	9.88E-03	1.61E+01	9.88E-03	1.22E+01	9.88E-03	2.14E+01	9.88E-03	2.04E+01	9.88E-03	4.24E+01	1.06E-02	1.57E+00
1,2-Dibromo-3-Chloropropane	96-12-8	2.06E-05	1.67E-03	9.02E-06	1.48E-02	9.02E-06	1.12E-02	9.02E-06	1.96E-02	9.02E-06	1.87E-02	9.02E-06	3.89E-02	9.66E-06	1.44E-03
tert-Butylbenzene	98-06-6	4.11E-05	3.20E-03	1.77E-05	2.88E-02	1.77E-05	2.17E-02	1.77E-05	3.82E-02	1.77E-05	3.64E-02	1.77E-05	7.58E-02	1.89E-05	2.81E-03
1-METHYLETHYLBENZENE	98-82-8	6.55E-01	4.89E+01	2.80E-01	4.56E+02	2.80E-01	3.44E+02	2.80E-01	6.04E+02	2.80E-01	5.77E+02	2.80E-01	1.20E+03	3.00E-01	4.44E+01
Pit F															
Ethylbenzene	100-41-4	2.17E-04	4.15E-01	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	100-42-5	1.03E-03	1.97E+00	-	-	-	-	-	-	-	-	-	-	-	-
(1-METHYLPROPYL)BENZENE	135-98-8	3.05E-04	5.85E-01	-	-	-	-	-	-	-	-	-	-	-	-
2-PROPANONE	67-64-1	2.26E-05	4.33E-02	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	75-15-0	4.39E-04	8.43E-01	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	78-93-3	9.89E-05	1.90E-01	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	85-01-8	1.86E-02	3.60E+01	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	91-20-3	1.36E-03	2.61E+00	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	95-63-6	9.17E-05	1.76E-01	-	-	-	-	-	-	-	-	-	-	-	-
Total		**9.94**	**796.24**	**4.21**	**6844.94**	**4.21**	**5168.63**	**4.21**	**9080.02**	**4.21**	**8660.94**	**4.21**	**18020.35**	**4.51**	**667.38**

Source: PCR Services Corporation, (2013).

Note: See worksheets on the following pages for calculation details.

ASCON AQ/HRA - Emissions Inventory
VOC Emission Calculation Assumptions

NOTE: BLUE COLORED TEXT ARE LINKED TO THE SUBSEQUENT TABS

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: *Project Navigator, Ltd., (2013)* .
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: *Project Navigator, Ltd., (2013)* .
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: *Project Navigator, Ltd., (2013)* .
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: *Project Navigator, Ltd., (2013)* .
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: *USEPA, Control of Air Emissions from Superfund Sites, (1992)* . Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	*Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982)* . Estimated capture and control efficiency.

Stockpile Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstabilized soil parcel is stablized on-site within an hour. Source: *Project Navigator, Ltd., (2013)* .
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized soil parcel is on-site for 1 day on average before off-site removal and subsequent addition of new soil parcel (conservative assumption due to higher volatilization factor).

Phase - Subphase	Phase / Subphase No.	Unstabilized Stockpile Area (acres)	Stabilized Stockpile Area (acres)	References
Pit F - Slurry Trench Excavation (waste in bins)	2.4	0	0	Unstabilized Area: Assumed area where no soil stabilizing agent is applied or prior stablized area is disturbed.
Cut/Fill to Top of Waste - Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	0	0.5	Assumes 20% of stockpile area is unstabilized due to active use.
North Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4a.3	0	0.5	Stabilized Area: Assumed area where soil is stabilized prior to removal to treatment cell or off-site. For Pit F, this refers to the entire Pit F area controlled by the structure (referred to as active and inactive areas).
East Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4b.3	0	0.5	
Central Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4c.3	0	0.5	Source: *Project Navigator, Ltd., (2013).*
South and West Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4d.3	0	0.5	
South Coast Oil Corporation - Cut	7.1	0	0.5	

Excavated Surface Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/unstabilized excavated surface area (surface area of in-ground soil parcel) is stablized on-site within an hour. Source: *Project Navigator, Ltd., (2013)* . This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized excavated soil surface area (surface area of in-ground soil parcel) is on-site for 1 day on average before stockpiled and removal to long-term stabilized area and subsequent excavation of new soil area (conservative assumption due to use of higher volatilization factor). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel)
Percent of Excavated Area Controlled - Stabilizer	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).
Layer Thickness	914.4	cm	It is conservatively estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately 5 to 30 feet. Thus, in order to provide a conservative assessment, a layer thickness of 30 feet was for all areas assigned to the VOC emissions model (i.e., EMSOFT).
Adjustment Factor for Number of Excavated Surfaces Exposed to Air	3	unitless	Number of excavated surfaces exposed to air due to removal of a cubic soil parcel.

ASCON AQ/HRA - Emissions Inventory
VOC Emission Calculation Assumptions

NOTE: BLUE COLORED TEXT ARE LINKED TO THE SUBSEQUENT TABS

Phase - Subphase	Phase / Subphase No.	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	References
Pit F - Slurry Trench Excavation (waste in bins)	2.4	400	500	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
Cut/Fill to Top of Waste - Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	1500	2000	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
North Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4a.3	1500	2000	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
East Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4b.3	1500	2000	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
Central Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4c.3	1500	2000	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
South and West Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4d.3	1500	2000	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .
South Coast Oil Corporation - Cut	7.1	2000	2200	Source: *Project Navigator, Ltd., Ascon Landfill Site Remedial Alternative No. 6 Project Description, (2013)* .

Vehicle Disturbance Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstablized area emissions from vehicles traveling over new roadways.
Vehicle Area Disturbance (New Road for Pit F Area)	0.5	m	Estimated wheel width of on-site equipment.
	470	m	Estimated round trip distance.
	0.116	acres	Estimated vehicle area of disturbance caused by vehicles traveling over soil (calculated as [Wheel Width × 2 × Round Trip Distance] and converted to acres).
	4.70E+06	cm^2	Estimated vehicle area disturbance caused by vehicles traveling over contaminated soil, converted to units of cm^2.

ASCON AQ/HRA - Emissions Inventory
Stockpile VOC Emissions

Emissions Equation

Emissions (lb/time) = (1 - MR) x t x VF x A_S

Where
MR = Mitigation (% Reduction)
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: USEPA, Control of Air Emissions from Superfund Sites, (1992). Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982). Estimated capture and control efficiency.

Stockpile Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstabilized soil parcel is stablized on-site within an hour. Source: Project Navigator, Ltd., (2013).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized soil parcel is on-site for 1 day on average before off-site removal and subsequent addition of new soil parcel (conservative assumption due to higher volatilization factor).

Phases with Excavation Activities (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	Unstabilized Stockpile Area (acres)	Unstablized Stockpile Area (cm^2)	Unstabilized Area Mitigated for Overnight (typical workday hours)	Unstabilized Area Mitigated for Overnight (maximum workday hours)	Stabilized Stockpile Area (acres)	Stabilized Stockpile Area (cm^2)	Stabilized Mitigation (% Reduction)
Pit F - Slurry Trench Excavation (waste in bins)	2.4	101	400	500	0	0.00E+00	15	13	0	0.00E+00	95%
Cut/Fill to Top of Waste - Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	1500	2000	0	0.00E+00	15	13	0.5	2.02E+07	91%
North Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4a.3	74	1500	2000	0	0.00E+00	15	13	0.5	2.02E+07	91%
East Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4b.3	130	1500	2000	0	0.00E+00	15	13	0.5	2.02E+07	91%
Central Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4c.3	124	1500	2000	0	0.00E+00	15	13	0.5	2.02E+07	91%
South and West Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4d.3	258	1500	2000	0	0.00E+00	15	13	0.5	2.02E+07	91%
South Coast Oil Corporation - Cut	7.1	8	2000	2200	0	0.00E+00	15	13	0.5	2.02E+07	91%

Emissions Calculations

Maximum Hourly

Area Emissions (AE) = $VF_{1-HR} \times A_{S,U}$ *(Emissions during the first hour prior to stabilization from temporary unstabilized portion of stockpile.)*
Stabilized Area Emissions (SAE) = (1 - MR) × $VF_{1-DAY} \times A_S$ *(Emissions from the stabilized portion of the stockpile based on 1-day average volatilization factors. Stockpile could remain on-site up to 30 days Per SCAQMD Rule 1166; however, 1-day average volatilziation factors were used as a conservative assumption, which assumes stockpiled soil is volatilizing at a higher rate.)*
Total Emissions = AE + SAE

CAS No.	Chemical	Unstabilized Area Emission Rates: VF_{1-HR} [0.1 day avg] (mg/cm^2-day)	Unstabilized Area Emission Rates: VF_{1-HR} [Workday] (lbs/cm^2-hour)	Stabilized Area Emission Rates: VF_{1-DAY} [1 day avg] (mg/cm^2-day)	Stabilized Area Emission Rates: VF_{1-DAY} (lbs/cm^2-hour)	Stabilized Area Emission Rates, Phase 2.4: Mitigated VF_{1-DAY} (lbs/cm^2-hour)	Stabilized Area Emission Rates, All Other Phases: Mitigated VF_{1-DAY} (lbs/cm^2-hour)	Emissions (lbs/hour), Phase / Subphase No. 2.4: Active Area Emissions (lbs/hour)	Phase / Subphase No. 2.4: Inactive Area Emissions (lbs/hour)	Phase / Subphase No. 2.4: Total Emissions (lbs/hour)	Phase / Subphase No. 3.1: Unstablilized Area Emissions (lbs/hour)	Phase / Subphase No. 3.1: Stabilized Area Emissions (lbs/hour)	Phase / Subphase No. 3.1: Total Emissions (lbs/hour)
Non-Pit F													
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	-	1.59E-09	-	-	-	0.00E+00	3.22E-02	3.22E-02
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	-	4.08E-10	-	-	-	0.00E+00	8.26E-03	8.26E-03
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	-	4.35E-11	-	-	-	0.00E+00	8.80E-04	8.80E-04
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	-	1.64E-10	-	-	-	0.00E+00	3.32E-03	3.32E-03
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	-	2.31E-11	-	-	-	0.00E+00	4.68E-04	4.68E-04
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	-	4.61E-11	-	-	-	0.00E+00	9.34E-04	9.34E-04
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	-	5.04E-11	-	-	-	0.00E+00	1.02E-03	1.02E-03
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	-	1.16E-11	-	-	-	0.00E+00	2.35E-04	2.35E-04
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	0.00E+00	6.00E-06	6.00E-06
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	-	1.33E-09	-	-	-	0.00E+00	2.69E-02	2.69E-02
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	-	2.93E-09	-	-	-	0.00E+00	5.92E-02	5.92E-02
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	-	4.53E-11	-	-	-	0.00E+00	9.17E-04	9.17E-04
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	-	1.59E-10	-	-	-	0.00E+00	3.22E-03	3.22E-03
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	-	6.85E-10	-	-	-	0.00E+00	1.39E-02	1.39E-02
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	-	3.80E-13	-	-	-	0.00E+00	7.69E-06	7.69E-06
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	0.00E+00	2.96E-07	2.96E-07
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	0.00E+00	3.87E-05	3.87E-05
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	-	8.36E-15	-	-	-	0.00E+00	1.69E-07	1.69E-07
132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	-	3.29E-14	-	-	-	0.00E+00	6.66E-07	6.66E-07
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	-	3.17E-10	-	-	-	0.00E+00	6.42E-03	6.42E-03
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	-	1.09E-10	-	-	-	0.00E+00	2.21E-03	2.21E-03
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	-	5.19E-10	-	-	-	0.00E+00	1.05E-02	1.05E-02
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	-	2.41E-10	-	-	-	0.00E+00	4.87E-03	4.87E-03
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	0.00E+00	3.93E-03	3.93E-03
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	-	5.97E-10	-	-	-	0.00E+00	1.21E-02	1.21E-02
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	-	1.13E-10	-	-	-	0.00E+00	2.28E-03	2.28E-03
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	-	1.74E-10	-	-	-	0.00E+00	3.51E-03	3.51E-03
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	-	1.90E-10	-	-	-	0.00E+00	3.85E-03	3.85E-03
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	-	3.94E-10	-	-	-	0.00E+00	7.97E-03	7.97E-03
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	-	4.44E-09	-	-	-	0.00E+00	8.99E-02	8.99E-02
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	-	2.23E-09	-	-	-	0.00E+00	4.52E-02	4.52E-02
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	-	1.69E-10	-	-	-	0.00E+00	3.43E-03	3.43E-03
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	-	1.12E-08	-	-	-	0.00E+00	2.26E-01	2.26E-01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	-	5.08E-10	-	-	-	0.00E+00	1.03E-02	1.03E-02
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	-	1.49E-08	-	-	-	0.00E+00	3.01E-01	3.01E-01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	-	7.81E-11	-	-	-	0.00E+00	1.58E-03	1.58E-03
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	-	2.71E-10	-	-	-	0.00E+00	5.47E-03	5.47E-03
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	2.52E-06	2.52E-06
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	-	6.36E-11	-	-	-	0.00E+00	1.29E-03	1.29E-03
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	-	5.45E-09	-	-	-	0.00E+00	1.10E-01	1.10E-01
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	-	1.34E-10	-	-	-	0.00E+00	2.71E-03	2.71E-03
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	-	3.66E-09	-	-	-	0.00E+00	7.41E-02	7.41E-02
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	-	1.70E-10	-	-	-	0.00E+00	3.44E-03	3.44E-03
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	-	1.63E-10	-	-	-	0.00E+00	3.29E-03	3.29E-03
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	0.00E+00	3.57E-05	3.57E-05
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	-	1.01E-10	-	-	-	0.00E+00	2.05E-03	2.05E-03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	-	1.65E-09	-	-	-	0.00E+00	3.33E-02	3.33E-02
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	-	1.75E-11	-	-	-	0.00E+00	3.53E-04	3.53E-04
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	-	4.03E-12	-	-	-	0.00E+00	8.15E-05	8.15E-05
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	-	5.10E-13	-	-	-	0.00E+00	1.03E-05	1.03E-05
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	-	3.76E-11	-	-	-	0.00E+00	7.60E-04	7.60E-04
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	-	1.11E-12	-	-	-	0.00E+00	2.25E-05	2.25E-05
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	0.00E+00	3.40E-07	3.40E-07
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	-	1.62E-17	-	-	-	0.00E+00	3.28E-10	3.28E-10
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	-	1.10E-10	-	-	-	0.00E+00	2.23E-03	2.23E-03
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	-	3.68E-11	-	-	-	0.00E+00	7.45E-04	7.45E-04
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	-	4.15E-11	-	-	-	0.00E+00	8.39E-04	8.39E-04
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	-	1.14E-10	-	-	-	0.00E+00	2.30E-03	2.30E-03
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	-	6.95E-12	-	-	-	0.00E+00	1.41E-04	1.41E-04
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	-	1.42E-10	-	-	-	0.00E+00	2.86E-03	2.86E-03
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	0.00E+00	2.63E-06	2.63E-06
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	-	2.53E-13	-	-	-	0.00E+00	5.11E-06	5.11E-06
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	-	4.00E-09	-	-	-	0.00E+00	8.08E-02	8.08E-02
Pit F													
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
	Totals							**0.00**	**0.00**	**0.00**	**0.00**	**1.21**	**1.21**

CAS No.	Chemical	Phase / Subphase No. 4a.3: Unstablilized Area Emissions (lbs/hour)	4a.3: Stabilized Area Emissions (lbs/hour)	4a.3: Total Emissions (lbs/hour)	Phase / Subphase No. 4b.3: Unstablilized Area Emissions (lbs/hour)	4b.3: Stabilized Area Emissions (lbs/hour)	4b.3: Total Emissions (lbs/hour)	Phase / Subphase No. 4c.3: Unstablilized Area Emissions (lbs/hour)	4c.3: Stabilized Area Emissions (lbs/hour)	4c.3: Total Emissions (lbs/hour)	Phase / Subphase No. 4d.3: Unstablilized Area Emissions (lbs/hour)	4d.3: Stabilized Area Emissions (lbs/hour)	4d.3: Total Emissions (lbs/hour)	Phase / Subphase No. 7.1: Unstablilized Area Emissions (lbs/hour)	7.1: Stabilized Area Emissions (lbs/hour)	7.1: Total Emissions (lbs/hour)
Non-Pit F																
100-41-4	Ethylbenzene	0.00E+00	3.22E-02	3.22E-02	0.00E+00	3.22E-02	3.22E-02	0.00E+00	3.22E-02	3.22E-02	0.00E+00	3.22E-02	3.22E-02	0.00E+00	3.22E-02	3.22E-02
100-42-5	Styrene	0.00E+00	8.26E-03	8.26E-03	0.00E+00	8.26E-03	8.26E-03	0.00E+00	8.26E-03	8.26E-03	0.00E+00	8.26E-03	8.26E-03	0.00E+00	8.26E-03	8.26E-03
10042-59-8	2-PROPYL-1-HEPTANOL	0.00E+00	8.80E-04	8.80E-04	0.00E+00	8.80E-04	8.80E-04	0.00E+00	8.80E-04	8.80E-04	0.00E+00	8.80E-04	8.80E-04	0.00E+00	8.80E-04	8.80E-04
103-65-1	n-Propylbenzene	0.00E+00	3.32E-03	3.32E-03	0.00E+00	3.32E-03	3.32E-03	0.00E+00	3.32E-03	3.32E-03	0.00E+00	3.32E-03	3.32E-03	0.00E+00	3.32E-03	3.32E-03
104-51-8	n-Butylbenzene	0.00E+00	4.68E-04	4.68E-04	0.00E+00	4.68E-04	4.68E-04	0.00E+00	4.68E-04	4.68E-04	0.00E+00	4.68E-04	4.68E-04	0.00E+00	4.68E-04	4.68E-04
106-42-3	P-XYLENE	0.00E+00	9.34E-04	9.34E-04	0.00E+00	9.34E-04	9.34E-04	0.00E+00	9.34E-04	9.34E-04	0.00E+00	9.34E-04	9.34E-04	0.00E+00	9.34E-04	9.34E-04
106-43-4	4-Chlorotoluene	0.00E+00	1.02E-03	1.02E-03	0.00E+00	1.02E-03	1.02E-03	0.00E+00	1.02E-03	1.02E-03	0.00E+00	1.02E-03	1.02E-03	0.00E+00	1.02E-03	1.02E-03
106-46-7	1,4-Dichlorobenzene	0.00E+00	2.35E-04	2.35E-04	0.00E+00	2.35E-04	2.35E-04	0.00E+00	2.35E-04	2.35E-04	0.00E+00	2.35E-04	2.35E-04	0.00E+00	2.35E-04	2.35E-04
106-93-4	1,2-Dibromoethane	0.00E+00	6.00E-06	6.00E-06	0.00E+00	6.00E-06	6.00E-06	0.00E+00	6.00E-06	6.00E-06	0.00E+00	6.00E-06	6.00E-06	0.00E+00	6.00E-06	6.00E-06
107-06-2	1,2-Dichloroethane	0.00E+00	2.69E-02	2.69E-02	0.00E+00	2.69E-02	2.69E-02	0.00E+00	2.69E-02	2.69E-02	0.00E+00	2.69E-02	2.69E-02	0.00E+00	2.69E-02	2.69E-02
108-38-3	M-XYLENE	0.00E+00	5.92E-02	5.92E-02	0.00E+00	5.92E-02	5.92E-02	0.00E+00	5.92E-02	5.92E-02	0.00E+00	5.92E-02	5.92E-02	0.00E+00	5.92E-02	5.92E-02
108-67-8	1,3,5-Trimethylbenzene	0.00E+00	9.17E-04	9.17E-04	0.00E+00	9.17E-04	9.17E-04	0.00E+00	9.17E-04	9.17E-04	0.00E+00	9.17E-04	9.17E-04	0.00E+00	9.17E-04	9.17E-04
108-88-3	Toluene	0.00E+00	3.22E-03	3.22E-03	0.00E+00	3.22E-03	3.22E-03	0.00E+00	3.22E-03	3.22E-03	0.00E+00	3.22E-03	3.22E-03	0.00E+00	3.22E-03	3.22E-03
108-90-7	Chlorobenzene	0.00E+00	1.39E-02	1.39E-02	0.00E+00	1.39E-02	1.39E-02	0.00E+00	1.39E-02	1.39E-02	0.00E+00	1.39E-02	1.39E-02	0.00E+00	1.39E-02	1.39E-02
120-12-7	Anthracene	0.00E+00	7.69E-06	7.69E-06	0.00E+00	7.69E-06	7.69E-06	0.00E+00	7.69E-06	7.69E-06	0.00E+00	7.69E-06	7.69E-06	0.00E+00	7.69E-06	7.69E-06
120-82-1	1,2,4-Trichlorobenzene	0.00E+00	2.96E-07	2.96E-07	0.00E+00	2.96E-07	2.96E-07	0.00E+00	2.96E-07	2.96E-07	0.00E+00	2.96E-07	2.96E-07	0.00E+00	2.96E-07	2.96E-07
127-18-4	Tetrachloroethene	0.00E+00	3.87E-05	3.87E-05	0.00E+00	3.87E-05	3.87E-05	0.00E+00	3.87E-05	3.87E-05	0.00E+00	3.87E-05	3.87E-05	0.00E+00	3.87E-05	3.87E-05
129-00-0	Pyrene	0.00E+00	1.69E-07	1.69E-07	0.00E+00	1.69E-07	1.69E-07	0.00E+00	1.69E-07	1.69E-07	0.00E+00	1.69E-07	1.69E-07	0.00E+00	1.69E-07	1.69E-07
132-64-9	Dibenzofuran	0.00E+00	6.66E-07	6.66E-07	0.00E+00	6.66E-07	6.66E-07	0.00E+00	6.66E-07	6.66E-07	0.00E+00	6.66E-07	6.66E-07	0.00E+00	6.66E-07	6.66E-07
1330-20-7	XYLENES (TOTAL)	0.00E+00	6.42E-03	6.42E-03	0.00E+00	6.42E-03	6.42E-03	0.00E+00	6.42E-03	6.42E-03	0.00E+00	6.42E-03	6.42E-03	0.00E+00	6.42E-03	6.42E-03
135-98-8	(1-METHYLPROPYL)BENZENE	0.00E+00	2.21E-03	2.21E-03	0.00E+00	2.21E-03	2.21E-03	0.00E+00	2.21E-03	2.21E-03	0.00E+00	2.21E-03	2.21E-03	0.00E+00	2.21E-03	2.21E-03
1653-40-3	6-METHYL-1,1-HEPTANOL	0.00E+00	1.05E-02	1.05E-02	0.00E+00	1.05E-02	1.05E-02	0.00E+00	1.05E-02	1.05E-02	0.00E+00	1.05E-02	1.05E-02	0.00E+00	1.05E-02	1.05E-02
179601-23-1	m,p-Xylenes	0.00E+00	4.87E-03	4.87E-03	0.00E+00	4.87E-03	4.87E-03	0.00E+00	4.87E-03	4.87E-03	0.00E+00	4.87E-03	4.87E-03	0.00E+00	4.87E-03	4.87E-03
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	0.00E+00	3.93E-03	3.93E-03	0.00E+00	3.93E-03	3.93E-03	0.00E+00	3.93E-03	3.93E-03	0.00E+00	3.93E-03	3.93E-03	0.00E+00	3.93E-03	3.93E-03
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	0.00E+00	1.21E-02	1.21E-02	0.00E+00	1.21E-02	1.21E-02	0.00E+00	1.21E-02	1.21E-02	0.00E+00	1.21E-02	1.21E-02	0.00E+00	1.21E-02	1.21E-02
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	0.00E+00	2.28E-03	2.28E-03	0.00E+00	2.28E-03	2.28E-03	0.00E+00	2.28E-03	2.28E-03	0.00E+00	2.28E-03	2.28E-03	0.00E+00	2.28E-03	2.28E-03
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	0.00E+00	3.51E-03	3.51E-03	0.00E+00	3.51E-03	3.51E-03	0.00E+00	3.51E-03	3.51E-03	0.00E+00	3.51E-03	3.51E-03	0.00E+00	3.51E-03	3.51E-03
26952-21-6	ISOOCTANOL	0.00E+00	3.85E-03	3.85E-03	0.00E+00	3.85E-03	3.85E-03	0.00E+00	3.85E-03	3.85E-03	0.00E+00	3.85E-03	3.85E-03	0.00E+00	3.85E-03	3.85E-03
2719-52-0	(1-METHYLBUTYL)BENZENE	0.00E+00	7.97E-03	7.97E-03	0.00E+00	7.97E-03	7.97E-03	0.00E+00	7.97E-03	7.97E-03	0.00E+00	7.97E-03	7.97E-03	0.00E+00	7.97E-03	7.97E-03
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	0.00E+00	8.99E-02	8.99E-02	0.00E+00	8.99E-02	8.99E-02	0.00E+00	8.99E-02	8.99E-02	0.00E+00	8.99E-02	8.99E-02	0.00E+00	8.99E-02	8.99E-02
3875-51-2	1-METHYLETHYLCYCLOPENTANE	0.00E+00	4.52E-02	4.52E-02	0.00E+00	4.52E-02	4.52E-02	0.00E+00	4.52E-02	4.52E-02	0.00E+00	4.52E-02	4.52E-02	0.00E+00	4.52E-02	4.52E-02
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	0.00E+00	3.43E-03	3.43E-03	0.00E+00	3.43E-03	3.43E-03	0.00E+00	3.43E-03	3.43E-03	0.00E+00	3.43E-03	3.43E-03	0.00E+00	3.43E-03	3.43E-03
496-10-6	OCTAHYDROINDENE	0.00E+00	2.26E-01	2.26E-01	0.00E+00	2.26E-01	2.26E-01	0.00E+00	2.26E-01	2.26E-01	0.00E+00	2.26E-01	2.26E-01	0.00E+00	2.26E-01	2.26E-01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	0.00E+00	1.03E-02	1.03E-02	0.00E+00	1.03E-02	1.03E-02	0.00E+00	1.03E-02	1.03E-02	0.00E+00	1.03E-02	1.03E-02	0.00E+00	1.03E-02	1.03E-02
5364-83-0	(1-PROPENYL)CYCLOHEXANE	0.00E+00	3.01E-01	3.01E-01	0.00E+00	3.01E-01	3.01E-01	0.00E+00	3.01E-01	3.01E-01	0.00E+00	3.01E-01	3.01E-01	0.00E+00	3.01E-01	3.01E-01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	0.00E+00	1.58E-03	1.58E-03	0.00E+00	1.58E-03	1.58E-03	0.00E+00	1.58E-03	1.58E-03	0.00E+00	1.58E-03	1.58E-03	0.00E+00	1.58E-03	1.58E-03
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	0.00E+00	5.47E-03	5.47E-03	0.00E+00	5.47E-03	5.47E-03	0.00E+00	5.47E-03	5.47E-03	0.00E+00	5.47E-03	5.47E-03	0.00E+00	5.47E-03	5.47E-03
591-78-6	2-Hexanone	0.00E+00	2.52E-06	2.52E-06	0.00E+00	2.52E-06	2.52E-06	0.00E+00	2.52E-06	2.52E-06	0.00E+00	2.52E-06	2.52E-06	0.00E+00	2.52E-06	2.52E-06
67-64-1	2-PROPANONE	0.00E+00	1.29E-03	1.29E-03	0.00E+00	1.29E-03	1.29E-03	0.00E+00	1.29E-03	1.29E-03	0.00E+00	1.29E-03	1.29E-03	0.00E+00	1.29E-03	1.29E-03
67-66-3	Chloroform	0.00E+00	1.10E-01	1.10E-01	0.00E+00	1.10E-01	1.10E-01	0.00E+00	1.10E-01	1.10E-01	0.00E+00	1.10E-01	1.10E-01	0.00E+00	1.10E-01	1.10E-01
71-43-2	Benzene	0.00E+00	2.71E-03	2.71E-03	0.00E+00	2.71E-03	2.71E-03	0.00E+00	2.71E-03	2.71E-03	0.00E+00	2.71E-03	2.71E-03	0.00E+00	2.71E-03	2.71E-03
71-55-6	1,1,1-Trichloroethane	0.00E+00	7.41E-02	7.41E-02	0.00E+00	7.41E-02	7.41E-02	0.00E+00	7.41E-02	7.41E-02	0.00E+00	7.41E-02	7.41E-02	0.00E+00	7.41E-02	7.41E-02
75-09-2	Methylene Chloride	0.00E+00	3.44E-03	3.44E-03	0.00E+00	3.44E-03	3.44E-03	0.00E+00	3.44E-03	3.44E-03	0.00E+00	3.44E-03	3.44E-03	0.00E+00	3.44E-03	3.44E-03
75-34-3	1,1-Dichloroethane	0.00E+00	3.29E-03	3.29E-03	0.00E+00	3.29E-03	3.29E-03	0.00E+00	3.29E-03	3.29E-03	0.00E+00	3.29E-03	3.29E-03	0.00E+00	3.29E-03	3.29E-03
75-35-4	1,1-Dichloroethene	0.00E+00	3.57E-05	3.57E-05	0.00E+00	3.57E-05	3.57E-05	0.00E+00	3.57E-05	3.57E-05	0.00E+00	3.57E-05	3.57E-05	0.00E+00	3.57E-05	3.57E-05
75-69-4	Trichlorofluoromethane	0.00E+00	2.05E-03	2.05E-03	0.00E+00	2.05E-03	2.05E-03	0.00E+00	2.05E-03	2.05E-03	0.00E+00	2.05E-03	2.05E-03	0.00E+00	2.05E-03	2.05E-03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00E+00	3.33E-02	3.33E-02	0.00E+00	3.33E-02	3.33E-02	0.00E+00	3.33E-02	3.33E-02	0.00E+00	3.33E-02	3.33E-02	0.00E+00	3.33E-02	3.33E-02
78-93-3	2-Butanone	0.00E+00	3.53E-04	3.53E-04	0.00E+00	3.53E-04	3.53E-04	0.00E+00	3.53E-04	3.53E-04	0.00E+00	3.53E-04	3.53E-04	0.00E+00	3.53E-04	3.53E-04
79-34-5	1,1,2,2-Tetrachloroethane	0.00E+00	8.15E-05	8.15E-05	0.00E+00	8.15E-05	8.15E-05	0.00E+00	8.15E-05	8.15E-05	0.00E+00	8.15E-05	8.15E-05	0.00E+00	8.15E-05	8.15E-05
83-32-9	Acenaphthene	0.00E+00	1.03E-05	1.03E-05	0.00E+00	1.03E-05	1.03E-05	0.00E+00	1.03E-05	1.03E-05	0.00E+00	1.03E-05	1.03E-05	0.00E+00	1.03E-05	1.03E-05
85-01-8	Phenanthrene	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-04	7.60E-04
86-73-7	Fluorene	0.00E+00	2.25E-05	2.25E-05	0.00E+00	2.25E-05	2.25E-05	0.00E+00	2.25E-05	2.25E-05	0.00E+00	2.25E-05	2.25E-05	0.00E+00	2.25E-05	2.25E-05
87-61-6	1,2,3-Trichlorobenzene	0.00E+00	3.40E-07	3.40E-07	0.00E+00	3.40E-07	3.40E-07	0.00E+00	3.40E-07	3.40E-07	0.00E+00	3.40E-07	3.40E-07	0.00E+00	3.40E-07	3.40E-07
91-17-8	DECAHYDRONAPHTHALENE	0.00E+00	3.28E-10	3.28E-10	0.00E+00	3.28E-10	3.28E-10	0.00E+00	3.28E-10	3.28E-10	0.00E+00	3.28E-10	3.28E-10	0.00E+00	3.28E-10	3.28E-10
91-20-3	Naphthalene	0.00E+00	2.23E-03	2.23E-03	0.00E+00	2.23E-03	2.23E-03	0.00E+00	2.23E-03	2.23E-03	0.00E+00	2.23E-03	2.23E-03	0.00E+00	2.23E-03	2.23E-03
91-57-6	2-Methylnaphthalene	0.00E+00	7.45E-04	7.45E-04	0.00E+00	7.45E-04	7.45E-04	0.00E+00	7.45E-04	7.45E-04	0.00E+00	7.45E-04	7.45E-04	0.00E+00	7.45E-04	7.45E-04
941-60-6	1,1,4-6-TETRAMETHYLINDANE	0.00E+00	8.39E-04	8.39E-04	0.00E+00	8.39E-04	8.39E-04	0.00E+00	8.39E-04	8.39E-04	0.00E+00	8.39E-04	8.39E-04	0.00E+00	8.39E-04	8.39E-04
95-47-6	o-Xylene	0.00E+00	2.30E-03	2.30E-03	0.00E+00	2.30E-03	2.30E-03	0.00E+00	2.30E-03	2.30E-03	0.00E+00	2.30E-03	2.30E-03	0.00E+00	2.30E-03	2.30E-03
95-50-1	1,2-Dichlorobenzene	0.00E+00	1.41E-04	1.41E-04	0.00E+00	1.41E-04	1.41E-04	0.00E+00	1.41E-04	1.41E-04	0.00E+00	1.41E-04	1.41E-04	0.00E+00	1.41E-04	1.41E-04
95-63-6	1,2,4-Trimethylbenzene	0.00E+00	2.86E-03	2.86E-03	0.00E+00	2.86E-03	2.86E-03	0.00E+00	2.86E-03	2.86E-03	0.00E+00	2.86E-03	2.86E-03	0.00E+00	2.86E-03	2.86E-03
96-12-8	1,2-Dibromo-3-Chloropropane	0.00E+00	2.63E-06	2.63E-06	0.00E+00	2.63E-06	2.63E-06	0.00E+00	2.63E-06	2.63E-06	0.00E+00	2.63E-06	2.63E-06	0.00E+00	2.63E-06	2.63E-06
98-06-6	tert-Butylbenzene	0.00E+00	5.11E-06	5.11E-06	0.00E+00	5.11E-06	5.11E-06	0.00E+00	5.11E-06	5.11E-06	0.00E+00	5.11E-06	5.11E-06	0.00E+00	5.11E-06	5.11E-06
98-82-8	1-METHYLETHYLBENZENE	0.00E+00	8.08E-02	8.08E-02	0.00E+00	8.08E-02	8.08E-02	0.00E+00	8.08E-02	8.08E-02	0.00E+00	8.08E-02	8.08E-02	0.00E+00	8.08E-02	8.08E-02
Pit F																
100-41-4	Ethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	Styrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	2-PROPANONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	2-Butanone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	Phenanthrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Totals	**0.00**	**1.21**	**1.21**	**0.00**	**1.21**	**1.21**	**0.00**	**1.21**	**1.21**	**0.00**	**1.21**	**1.21**	**0.00**	**1.21**	**1.21**

Annual

Area Emissions (AE) = $t_{TYP} \times VF_{1\text{-}HR} \times A_S$ *(On-going emissions during the first hour prior to stabilization from temporary portion of stockpile. Emissions calculated for typical workday hours in a day and number of days for each phase.)*

Stabilized Area Emissions (SAE) = $(1 - MR) \times t_{TYP} \times VF_{1\text{-}DAY} \times A_S$ *(On-going emissions from the stabilized portion of the stockpile plus emissions from the temporary portion of the stockpile stabilized for overnight hours based on 1-day average VFs. Stockpile could remain on-site up to 30 days Per SCAQMD Rule 1166; however, 1-day average volatilziation factors were used as a conservative assumption, which assumes stockpiled soil is volatilizing at a higher rate. Emissions calculated for typical workday and overnight hours in a day and number of days for each phase.)*

Total Emissions = AE + SAE

		Unstabilized Area Emission Rates		Stabilized Area Emission Rates				Emissions (lbs/year)					
						Phase 2.4	All Other Phases	Phase / Subphase No. 2.4			Phase / Subphase No. 3.1		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm²-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm²-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm²-day)	$VF_{1\text{-}DAY}$ (lbs/cm²-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm²-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm²-hour)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)
Non-Pit F													
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	-	1.59E-09	-	-	-	0.00E+00	7.58E+01	7.58E+01
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	-	4.08E-10	-	-	-	0.00E+00	1.94E+01	1.94E+01
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	-	4.35E-11	-	-	-	0.00E+00	2.07E+00	2.07E+00
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	-	1.64E-10	-	-	-	0.00E+00	7.82E+00	7.82E+00
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	-	2.31E-11	-	-	-	0.00E+00	1.10E+00	1.10E+00
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	-	4.61E-11	-	-	-	0.00E+00	2.20E+00	2.20E+00
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	-	5.04E-11	-	-	-	0.00E+00	2.40E+00	2.40E+00
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	-	1.16E-11	-	-	-	0.00E+00	5.52E-01	5.52E-01
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	0.00E+00	1.41E-02	1.41E-02
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	-	1.33E-09	-	-	-	0.00E+00	6.32E+01	6.32E+01
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	-	2.93E-09	-	-	-	0.00E+00	1.39E+02	1.39E+02
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	-	4.53E-11	-	-	-	0.00E+00	2.16E+00	2.16E+00
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	-	1.59E-10	-	-	-	0.00E+00	7.57E+00	7.57E+00
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	-	6.85E-10	-	-	-	0.00E+00	3.26E+01	3.26E+01
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	-	3.80E-13	-	-	-	0.00E+00	1.81E-02	1.81E-02
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	0.00E+00	6.97E-04	6.97E-04
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	0.00E+00	9.09E-02	9.09E-02
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	-	8.36E-15	-	-	-	0.00E+00	3.98E-04	3.98E-04
132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	-	3.29E-14	-	-	-	0.00E+00	1.57E-03	1.57E-03
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	-	3.17E-10	-	-	-	0.00E+00	1.51E+01	1.51E+01
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	-	1.09E-10	-	-	-	0.00E+00	5.19E+00	5.19E+00
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	-	5.19E-10	-	-	-	0.00E+00	2.47E+01	2.47E+01
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	-	2.41E-10	-	-	-	0.00E+00	1.14E+01	1.14E+01
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	0.00E+00	9.25E+00	9.25E+00
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	-	5.97E-10	-	-	-	0.00E+00	2.84E+01	2.84E+01
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	-	1.13E-10	-	-	-	0.00E+00	5.37E+00	5.37E+00
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	-	1.74E-10	-	-	-	0.00E+00	8.27E+00	8.27E+00
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	-	1.90E-10	-	-	-	0.00E+00	9.05E+00	9.05E+00
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	-	3.94E-10	-	-	-	0.00E+00	1.88E+01	1.88E+01
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	-	4.44E-09	-	-	-	0.00E+00	2.11E+02	2.11E+02
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	-	2.23E-09	-	-	-	0.00E+00	1.06E+02	1.06E+02
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	-	1.69E-10	-	-	-	0.00E+00	8.06E+00	8.06E+00
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	-	1.12E-08	-	-	-	0.00E+00	5.31E+02	5.31E+02
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	-	5.08E-10	-	-	-	0.00E+00	2.42E+01	2.42E+01
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	-	1.49E-08	-	-	-	0.00E+00	7.07E+02	7.07E+02
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	-	7.81E-11	-	-	-	0.00E+00	3.72E+00	3.72E+00
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	-	2.71E-10	-	-	-	0.00E+00	1.29E+01	1.29E+01
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	0.00E+00	5.92E-03	5.92E-03
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	-	6.36E-11	-	-	-	0.00E+00	3.03E+00	3.03E+00
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	-	5.45E-09	-	-	-	0.00E+00	2.59E+02	2.59E+02
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	-	1.34E-10	-	-	-	0.00E+00	6.37E+00	6.37E+00
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	-	3.66E-09	-	-	-	0.00E+00	1.74E+02	1.74E+02
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	-	1.70E-10	-	-	-	0.00E+00	8.10E+00	8.10E+00
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	-	1.63E-10	-	-	-	0.00E+00	7.74E+00	7.74E+00
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	0.00E+00	8.39E-02	8.39E-02
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	-	1.01E-10	-	-	-	0.00E+00	4.82E+00	4.82E+00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	-	1.65E-09	-	-	-	0.00E+00	7.84E+01	7.84E+01
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	-	1.75E-11	-	-	-	0.00E+00	8.31E-01	8.31E-01
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	-	4.03E-12	-	-	-	0.00E+00	1.92E-01	1.92E-01
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	-	5.10E-13	-	-	-	0.00E+00	2.43E-02	2.43E-02
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	-	3.76E-11	-	-	-	0.00E+00	1.79E+00	1.79E+00
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	-	1.11E-12	-	-	-	0.00E+00	5.28E-02	5.28E-02
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	0.00E+00	7.99E-04	7.99E-04
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	-	1.62E-17	-	-	-	0.00E+00	7.70E-07	7.70E-07
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	-	1.10E-10	-	-	-	0.00E+00	5.25E+00	5.25E+00
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	-	3.68E-11	-	-	-	0.00E+00	1.75E+00	1.75E+00
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	-	4.15E-11	-	-	-	0.00E+00	1.97E+00	1.97E+00
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	-	1.14E-10	-	-	-	0.00E+00	5.42E+00	5.42E+00
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	-	6.95E-12	-	-	-	0.00E+00	3.31E-01	3.31E-01
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	-	1.42E-10	-	-	-	0.00E+00	6.74E+00	6.74E+00
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	0.00E+00	6.19E-03	6.19E-03
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	-	2.53E-13	-	-	-	0.00E+00	1.20E-02	1.20E-02
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	-	4.00E-09	-	-	-	0.00E+00	1.90E+02	1.90E+02
Pit F													
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	0.00E+00	0.00E+00	0.00E+00	-	-	-
	Totals							**0.00**	**0.00**	**0.00**	**0.00**	**2853.44**	**2853.44**

		Emissions (lbs/year)														
		Phase / Subphase No. 4a.3			Phase / Subphase No. 4b.3			Phase / Subphase No. 4c.3			Phase / Subphase No. 4d.3			Phase / Subphase No. 7.1		
CAS No.	Chemical	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)	Unstablilized Area Emissions (lbs/year)	Stabilized Area Emissions (lbs/year)	Total Emissions (lbs/year)
Non-Pit F																
100-41-4	Ethylbenzene	0.00E+00	5.72E+01	5.72E+01	0.00E+00	1.01E+02	1.01E+02	0.00E+00	9.59E+01	9.59E+01	0.00E+00	1.99E+02	1.99E+02	0.00E+00	6.19E+00	6.19E+00
100-42-5	Styrene	0.00E+00	1.47E+01	1.47E+01	0.00E+00	2.58E+01	2.58E+01	0.00E+00	2.46E+01	2.46E+01	0.00E+00	5.11E+01	5.11E+01	0.00E+00	1.59E+00	1.59E+00
10042-59-8	2-PROPYL-1-HEPTANOL	0.00E+00	1.56E+00	1.56E+00	0.00E+00	2.75E+00	2.75E+00	0.00E+00	2.62E+00	2.62E+00	0.00E+00	5.45E+00	5.45E+00	0.00E+00	1.69E-01	1.69E-01
103-65-1	n-Propylbenzene	0.00E+00	5.90E+00	5.90E+00	0.00E+00	1.04E+01	1.04E+01	0.00E+00	9.89E+00	9.89E+00	0.00E+00	2.06E+01	2.06E+01	0.00E+00	6.38E-01	6.38E-01
104-51-8	n-Butylbenzene	0.00E+00	8.31E-01	8.31E-01	0.00E+00	1.46E+00	1.46E+00	0.00E+00	1.39E+00	1.39E+00	0.00E+00	2.90E+00	2.90E+00	0.00E+00	8.98E-02	8.98E-02
106-42-3	P-XYLENE	0.00E+00	1.66E+00	1.66E+00	0.00E+00	2.91E+00	2.91E+00	0.00E+00	2.78E+00	2.78E+00	0.00E+00	5.78E+00	5.78E+00	0.00E+00	1.79E-01	1.79E-01
106-43-4	4-Chlorotoluene	0.00E+00	1.81E+00	1.81E+00	0.00E+00	3.18E+00	3.18E+00	0.00E+00	3.04E+00	3.04E+00	0.00E+00	6.32E+00	6.32E+00	0.00E+00	1.96E-01	1.96E-01
106-46-7	1,4-Dichlorobenzene	0.00E+00	4.17E-01	4.17E-01	0.00E+00	7.33E-01	7.33E-01	0.00E+00	6.99E-01	6.99E-01	0.00E+00	1.45E+00	1.45E+00	0.00E+00	4.51E-02	4.51E-02
106-93-4	1,2-Dibromoethane	0.00E+00	1.06E-02	1.06E-02	0.00E+00	1.87E-02	1.87E-02	0.00E+00	1.78E-02	1.78E-02	0.00E+00	3.71E-02	3.71E-02	0.00E+00	1.15E-03	1.15E-03
107-06-2	1,2-Dichloroethane	0.00E+00	4.77E+01	4.77E+01	0.00E+00	8.38E+01	8.38E+01	0.00E+00	7.99E+01	7.99E+01	0.00E+00	1.66E+02	1.66E+02	0.00E+00	5.16E+00	5.16E+00
108-38-3	M-XYLENE	0.00E+00	1.05E+02	1.05E+02	0.00E+00	1.85E+02	1.85E+02	0.00E+00	1.76E+02	1.76E+02	0.00E+00	3.67E+02	3.67E+02	0.00E+00	1.14E+01	1.14E+01
108-67-8	1,3,5-Trimethylbenzene	0.00E+00	1.63E+00	1.63E+00	0.00E+00	2.86E+00	2.86E+00	0.00E+00	2.73E+00	2.73E+00	0.00E+00	5.68E+00	5.68E+00	0.00E+00	1.76E-01	1.76E-01
108-88-3	Toluene	0.00E+00	5.71E+00	5.71E+00	0.00E+00	1.00E+01	1.00E+01	0.00E+00	9.57E+00	9.57E+00	0.00E+00	1.99E+01	1.99E+01	0.00E+00	6.18E-01	6.18E-01
108-90-7	Chlorobenzene	0.00E+00	2.46E+01	2.46E+01	0.00E+00	4.32E+01	4.32E+01	0.00E+00	4.12E+01	4.12E+01	0.00E+00	8.58E+01	8.58E+01	0.00E+00	2.66E+00	2.66E+00
120-12-7	Anthracene	0.00E+00	1.37E-02	1.37E-02	0.00E+00	2.40E-02	2.40E-02	0.00E+00	2.29E-02	2.29E-02	0.00E+00	4.76E-02	4.76E-02	0.00E+00	1.48E-03	1.48E-03
120-82-1	1,2,4-Trichlorobenzene	0.00E+00	5.26E-04	5.26E-04	0.00E+00	9.25E-04	9.25E-04	0.00E+00	8.82E-04	8.82E-04	0.00E+00	1.84E-03	1.84E-03	0.00E+00	5.69E-05	5.69E-05
127-18-4	Tetrachloroethene	0.00E+00	6.87E-02	6.87E-02	0.00E+00	1.21E-01	1.21E-01	0.00E+00	1.15E-01	1.15E-01	0.00E+00	2.39E-01	2.39E-01	0.00E+00	7.42E-03	7.42E-03
129-00-0	Pyrene	0.00E+00	3.01E-04	3.01E-04	0.00E+00	5.28E-04	5.28E-04	0.00E+00	5.04E-04	5.04E-04	0.00E+00	1.05E-03	1.05E-03	0.00E+00	3.25E-05	3.25E-05
132-64-9	Dibenzofuran	0.00E+00	1.18E-03	1.18E-03	0.00E+00	2.08E-03	2.08E-03	0.00E+00	1.98E-03	1.98E-03	0.00E+00	4.12E-03	4.12E-03	0.00E+00	1.28E-04	1.28E-04
1330-20-7	XYLENES (TOTAL)	0.00E+00	1.14E+01	1.14E+01	0.00E+00	2.00E+01	2.00E+01	0.00E+00	1.91E+01	1.91E+01	0.00E+00	3.98E+01	3.98E+01	0.00E+00	1.23E+00	1.23E+00
135-98-8	(1-METHYLPROPYL)BENZENE	0.00E+00	3.92E+00	3.92E+00	0.00E+00	6.89E+00	6.89E+00	0.00E+00	6.57E+00	6.57E+00	0.00E+00	1.37E+01	1.37E+01	0.00E+00	4.24E-01	4.24E-01
1653-40-3	6-METHYL-1,1-HEPTANOL	0.00E+00	1.86E+01	1.86E+01	0.00E+00	3.27E+01	3.27E+01	0.00E+00	3.12E+01	3.12E+01	0.00E+00	6.50E+01	6.50E+01	0.00E+00	2.01E+00	2.01E+00
179601-23-1	m,p-Xylenes	0.00E+00	8.64E+00	8.64E+00	0.00E+00	1.52E+01	1.52E+01	0.00E+00	1.45E+01	1.45E+01	0.00E+00	3.01E+01	3.01E+01	0.00E+00	9.34E-01	9.34E-01
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	0.00E+00	6.98E+00	6.98E+00	0.00E+00	1.23E+01	1.23E+01	0.00E+00	1.17E+01	1.17E+01	0.00E+00	2.43E+01	2.43E+01	0.00E+00	7.55E-01	7.55E-01
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	0.00E+00	2.14E+01	2.14E+01	0.00E+00	3.77E+01	3.77E+01	0.00E+00	3.59E+01	3.59E+01	0.00E+00	7.48E+01	7.48E+01	0.00E+00	2.32E+00	2.32E+00
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	0.00E+00	4.06E+00	4.06E+00	0.00E+00	7.13E+00	7.13E+00	0.00E+00	6.80E+00	6.80E+00	0.00E+00	1.41E+01	1.41E+01	0.00E+00	4.38E-01	4.38E-01
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	0.00E+00	6.24E+00	6.24E+00	0.00E+00	1.10E+01	1.10E+01	0.00E+00	1.05E+01	1.05E+01	0.00E+00	2.18E+01	2.18E+01	0.00E+00	6.75E-01	6.75E-01
26952-21-6	ISOOCTANOL	0.00E+00	6.83E+00	6.83E+00	0.00E+00	1.20E+01	1.20E+01	0.00E+00	1.14E+01	1.14E+01	0.00E+00	2.38E+01	2.38E+01	0.00E+00	7.39E-01	7.39E-01
2719-52-0	(1-METHYLBUTYL)BENZENE	0.00E+00	1.42E+01	1.42E+01	0.00E+00	2.49E+01	2.49E+01	0.00E+00	2.37E+01	2.37E+01	0.00E+00	4.94E+01	4.94E+01	0.00E+00	1.53E+00	1.53E+00
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	0.00E+00	1.60E+02	1.60E+02	0.00E+00	2.80E+02	2.80E+02	0.00E+00	2.67E+02	2.67E+02	0.00E+00	5.56E+02	5.56E+02	0.00E+00	1.73E+01	1.73E+01
3875-51-2	1-METHYLETHYLCYCLOPENTANE	0.00E+00	8.03E+01	8.03E+01	0.00E+00	1.41E+02	1.41E+02	0.00E+00	1.35E+02	1.35E+02	0.00E+00	2.80E+02	2.80E+02	0.00E+00	8.68E+00	8.68E+00
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	0.00E+00	6.08E+00	6.08E+00	0.00E+00	1.07E+01	1.07E+01	0.00E+00	1.02E+01	1.02E+01	0.00E+00	2.12E+01	2.12E+01	0.00E+00	6.58E-01	6.58E-01
496-10-6	OCTAHYDROINDENE	0.00E+00	4.01E+02	4.01E+02	0.00E+00	7.05E+02	7.05E+02	0.00E+00	6.72E+02	6.72E+02	0.00E+00	1.40E+03	1.40E+03	0.00E+00	4.34E+01	4.34E+01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	0.00E+00	1.83E+01	1.83E+01	0.00E+00	3.21E+01	3.21E+01	0.00E+00	3.06E+01	3.06E+01	0.00E+00	6.37E+01	6.37E+01	0.00E+00	1.97E+00	1.97E+00
5364-83-0	(1-PROPENYL)CYCLOHEXANE	0.00E+00	5.34E+02	5.34E+02	0.00E+00	9.38E+02	9.38E+02	0.00E+00	8.95E+02	8.95E+02	0.00E+00	1.86E+03	1.86E+03	0.00E+00	5.77E+01	5.77E+01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	0.00E+00	2.81E+00	2.81E+00	0.00E+00	4.93E+00	4.93E+00	0.00E+00	4.71E+00	4.71E+00	0.00E+00	9.79E+00	9.79E+00	0.00E+00	3.04E-01	3.04E-01
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	0.00E+00	9.72E+00	9.72E+00	0.00E+00	1.71E+01	1.71E+01	0.00E+00	1.63E+01	1.63E+01	0.00E+00	3.39E+01	3.39E+01	0.00E+00	1.05E+00	1.05E+00
591-78-6	2-Hexanone	0.00E+00	4.47E-03	4.47E-03	0.00E+00	7.85E-03	7.85E-03	0.00E+00	7.49E-03	7.49E-03	0.00E+00	1.56E-02	1.56E-02	0.00E+00	4.83E-04	4.83E-04
67-64-1	2-PROPANONE	0.00E+00	2.29E+00	2.29E+00	0.00E+00	4.02E+00	4.02E+00	0.00E+00	3.83E+00	3.83E+00	0.00E+00	7.97E+00	7.97E+00	0.00E+00	2.47E-01	2.47E-01
67-66-3	Chloroform	0.00E+00	1.96E+02	1.96E+02	0.00E+00	3.44E+02	3.44E+02	0.00E+00	3.28E+02	3.28E+02	0.00E+00	6.83E+02	6.83E+02	0.00E+00	2.12E+01	2.12E+01
71-43-2	Benzene	0.00E+00	4.81E+00	4.81E+00	0.00E+00	8.45E+00	8.45E+00	0.00E+00	8.06E+00	8.06E+00	0.00E+00	1.68E+01	1.68E+01	0.00E+00	5.20E-01	5.20E-01
71-55-6	1,1,1-Trichloroethane	0.00E+00	1.32E+02	1.32E+02	0.00E+00	2.31E+02	2.31E+02	0.00E+00	2.20E+02	2.20E+02	0.00E+00	4.59E+02	4.59E+02	0.00E+00	1.42E+01	1.42E+01
75-09-2	Methylene Chloride	0.00E+00	6.12E+00	6.12E+00	0.00E+00	1.07E+01	1.07E+01	0.00E+00	1.02E+01	1.02E+01	0.00E+00	2.13E+01	2.13E+01	0.00E+00	6.61E-01	6.61E-01
75-34-3	1,1-Dichloroethane	0.00E+00	5.85E+00	5.85E+00	0.00E+00	1.03E+01	1.03E+01	0.00E+00	9.80E+00	9.80E+00	0.00E+00	2.04E+01	2.04E+01	0.00E+00	6.32E-01	6.32E-01
75-35-4	1,1-Dichloroethene	0.00E+00	6.34E-02	6.34E-02	0.00E+00	1.11E-01	1.11E-01	0.00E+00	1.06E-01	1.06E-01	0.00E+00	2.21E-01	2.21E-01	0.00E+00	6.85E-03	6.85E-03
75-69-4	Trichlorofluoromethane	0.00E+00	3.64E+00	3.64E+00	0.00E+00	6.39E+00	6.39E+00	0.00E+00	6.09E+00	6.09E+00	0.00E+00	1.27E+01	1.27E+01	0.00E+00	3.93E-01	3.93E-01
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00E+00	5.92E+01	5.92E+01	0.00E+00	1.04E+02	1.04E+02	0.00E+00	9.92E+01	9.92E+01	0.00E+00	2.06E+02	2.06E+02	0.00E+00	6.40E+00	6.40E+00
78-93-3	2-Butanone	0.00E+00	6.28E-01	6.28E-01	0.00E+00	1.10E+00	1.10E+00	0.00E+00	1.05E+00	1.05E+00	0.00E+00	2.19E+00	2.19E+00	0.00E+00	6.79E-02	6.79E-02
79-34-5	1,1,2,2-Tetrachloroethane	0.00E+00	1.45E-01	1.45E-01	0.00E+00	2.54E-01	2.54E-01	0.00E+00	2.42E-01	2.42E-01	0.00E+00	5.04E-01	5.04E-01	0.00E+00	1.56E-02	1.56E-02
83-32-9	Acenaphthene	0.00E+00	1.83E-02	1.83E-02	0.00E+00	3.22E-02	3.22E-02	0.00E+00	3.07E-02	3.07E-02	0.00E+00	6.39E-02	6.39E-02	0.00E+00	1.98E-03	1.98E-03
85-01-8	Phenanthrene	0.00E+00	1.35E+00	1.35E+00	0.00E+00	2.37E+00	2.37E+00	0.00E+00	2.26E+00	2.26E+00	0.00E+00	4.71E+00	4.71E+00	0.00E+00	1.46E-01	1.46E-01
86-73-7	Fluorene	0.00E+00	3.99E-02	3.99E-02	0.00E+00	7.00E-02	7.00E-02	0.00E+00	6.68E-02	6.68E-02	0.00E+00	1.39E-01	1.39E-01	0.00E+00	4.31E-03	4.31E-03
87-61-6	1,2,3-Trichlorobenzene	0.00E+00	6.03E-04	6.03E-04	0.00E+00	1.06E-03	1.06E-03	0.00E+00	1.01E-03	1.01E-03	0.00E+00	2.10E-03	2.10E-03	0.00E+00	6.52E-05	6.52E-05
91-17-8	DECAHYDRONAPHTHALENE	0.00E+00	5.82E-07	5.82E-07	0.00E+00	1.02E-06	1.02E-06	0.00E+00	9.75E-07	9.75E-07	0.00E+00	2.03E-06	2.03E-06	0.00E+00	6.29E-08	6.29E-08
91-20-3	Naphthalene	0.00E+00	3.97E+00	3.97E+00	0.00E+00	6.97E+00	6.97E+00	0.00E+00	6.65E+00	6.65E+00	0.00E+00	1.38E+01	1.38E+01	0.00E+00	4.29E-01	4.29E-01
91-57-6	2-Methylnaphthalene	0.00E+00	1.32E+00	1.32E+00	0.00E+00	2.32E+00	2.32E+00	0.00E+00	2.22E+00	2.22E+00	0.00E+00	4.61E+00	4.61E+00	0.00E+00	1.43E-01	1.43E-01
941-60-6	1,1,4-6-TETRAMETHYLINDANE	0.00E+00	1.49E+00	1.49E+00	0.00E+00	2.62E+00	2.62E+00	0.00E+00	2.50E+00	2.50E+00	0.00E+00	5.20E+00	5.20E+00	0.00E+00	1.61E-01	1.61E-01
95-47-6	o-Xylene	0.00E+00	4.09E+00	4.09E+00	0.00E+00	7.18E+00	7.18E+00	0.00E+00	6.85E+00	6.85E+00	0.00E+00	1.43E+01	1.43E+01	0.00E+00	4.42E-01	4.42E-01
95-50-1	1,2-Dichlorobenzene	0.00E+00	2.50E-01	2.50E-01	0.00E+00	4.38E-01	4.38E-01	0.00E+00	4.18E-01	4.18E-01	0.00E+00	8.70E-01	8.70E-01	0.00E+00	2.70E-02	2.70E-02
95-63-6	1,2,4-Trimethylbenzene	0.00E+00	5.09E+00	5.09E+00	0.00E+00	8.94E+00	8.94E+00	0.00E+00	8.52E+00	8.52E+00	0.00E+00	1.77E+01	1.77E+01	0.00E+00	5.50E-01	5.50E-01
96-12-8	1,2-Dibromo-3-Chloropropane	0.00E+00	4.68E-03	4.68E-03	0.00E+00	8.22E-03	8.22E-03	0.00E+00	7.84E-03	7.84E-03	0.00E+00	1.63E-02	1.63E-02	0.00E+00	5.06E-04	5.06E-04
98-06-6	tert-Butylbenzene	0.00E+00	9.08E-03	9.08E-03	0.00E+00	1.60E-02	1.60E-02	0.00E+00	1.52E-02	1.52E-02	0.00E+00	3.17E-02	3.17E-02	0.00E+00	9.82E-04	9.82E-04
98-82-8	1-METHYLETHYLBENZENE	0.00E+00	1.44E+02	1.44E+02	0.00E+00	2.52E+02	2.52E+02	0.00E+00	2.41E+02	2.41E+02	0.00E+00	5.01E+02	5.01E+02	0.00E+00	1.55E+01	1.55E+01
Pit F																
100-41-4	Ethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	Styrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	2-PROPANONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	2-Butanone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	Phenanthrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Totals	**0.00**	**2154.64**	**2154.64**	**0.00**	**3785.17**	**3785.17**	**0.00**	**3610.47**	**3610.47**	**0.00**	**7512.11**	**7512.11**	**0.00**	**232.93**	**232.93**

ASCON AQ/HRA - Emissions Inventory
Excavated Surfaces VOC Emissions

Emissions Equation

Emissions (lb/time) = (1 - MR) x t x VF x A_S

Where
MR = Mitigation (% Reduction)
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Typical Workday)	15	hours	Overnight Hours 4PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Overnight Hours per Day (Maximum Workday)	13	hours	Overnight Hours 6PM-7AM (all areas stabilized). Source: Project Navigator, Ltd., (2013).
Mitigation (% Reduction) - Stabilizer	91%	(%)	Apply stabilizer on inactive areas. Source: USEPA, Control of Air Emissions from Superfund Sites, (1992). Long-term VOC control efficiency ranges from 91 to 100%.
Mitigation (% Reduction) - Pit F Structure	95%	(%)	Source: USEPA AP-42, Fifth Edition, Volume I, Chapter 4: Evaporative Loss Sources, (August 1982). Estimated capture and control efficiency.

Excavated Surface Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/unstabilized excavated surface area (surface area of in-ground soil parcel) is stablized on-site within an hour. Source: Project Navigator, Ltd., (2013). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Inactive/Stabilized Area Emission Rate	Varies by Chemical	mass/area-time	Inactive/Stabilized excavated soil surface area (surface area of in-ground soil parcel) is on-site for 1 day on average before stockpiled and removal to long-term stabilized area and subsequent excavation of new soil area (conservative assumption due to use of higher volatilization factor). This area is calculated as the newly exposed sides of in-ground soil due to removal of a soil parcel (e.g., 3 newly exposed sides due to removal of a cubic soil parcel).
Percent of Area Controlled - Pit F Structure	100%	(%)	Percent of area controlled for VOCs (Pit F Structure).
Percent of Excavated Area Controlled - Stabilizer	50%	(%)	Percent of area controlled for VOCs (area stabilized for long-term periods).
Layer Thickness	914.4	cm	It is conservatively estimated that the combined thickness of solid debris and waste materials throughout the Site ranges from approximately 5 to 30 feet. Thus, in order to provide a conservative assessment, a layer thickness of 30 feet was for all areas assigned to the VOC emissions model (i.e., EMSOFT).
Adjustment Factor for Number of Excavated Surfaces Exposed to Air	3	unitless	Number of excavated surfaces exposed to air due to removal of a cubic soil parcel.

Phases with Excavation Activities (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days	Average Daily QTY Excavated (CY)	Max Daily QTY Excavated (CY)	Average Hourly QTY Excavated (CY)	Max Hourly QTY Excavated (CY)	Average (Daily) Previously Excavated Soil Surface Area (cm^2)	Max (Daily) Previously Excavated Soil Surface Area (cm^2)	Average Hourly Excavated/Disturbed Soil Surface Area* (cm^2)	Max Hourly Excavated/Disturbed Soil Surface Area* (cm^2)	Stabilized Mitigation (% Reduction)	Percent of Excavated Daily Area Controlled
Pit F - Slurry Trench Excavation (waste in bins)	2.4	101	400	500	44.44	55.56	1.00E+06	1.25E+06	1.11E+05	1.39E+05	95%	100%
Cut/Fill to Top of Waste - Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3.1	98	1500	2000	166.67	222.22	3.76E+06	5.02E+06	4.18E+05	5.57E+05	91%	50%
North Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4a.3	74	1500	2000	166.67	222.22	3.76E+06	5.02E+06	4.18E+05	5.57E+05	91%	50%
East Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4b.3	130	1500	2000	166.67	222.22	3.76E+06	5.02E+06	4.18E+05	5.57E+05	91%	50%
Central Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4c.3	124	1500	2000	166.67	222.22	3.76E+06	5.02E+06	4.18E+05	5.57E+05	91%	50%
South and West Parcel - Excavate to EL 0.00 (i.e., street level) (performed concurrently with Task 4)	4d.3	258	1500	2000	166.67	222.22	3.76E+06	5.02E+06	4.18E+05	5.57E+05	91%	50%
South Coast Oil Corporation - Cut	7.1	8	2000	2200	222.22	244.44	5.02E+06	5.52E+06	5.57E+05	6.13E+05	91%	50%

Emissions Calculations

Maximum Hourly

Area Emissions (AE) = $VF_{1-HR} \times A_{S,U}$ *(Emissions during the first hour prior to stabilization from temporary unstabilized portion of excavated area.)*
Stabilized Area Emissions (SAE) = $(1 - MR) \times VF_{1-DAY} \times A_S$ *(Emissions from the stabilized portion of the excavated area based on 1-day average volatilization factors. Consistent with the stockpile assumptions, the use of 1-day average volatilziation factors assumes soil parcels are removed from the surface daily.)*
Total Emissions = AE + SAE

CAS No.	Chemical	Active/Unstabilized Area Emission Rates: VF_{1-HR} [0.1 day avg] (mg/cm^2-day)	Active/Unstabilized Area Emission Rates: VF_{1-HR} [Workday] (lbs/cm^2-hour)	Stabilized Area Emission Rates: VF_{1-DAY} [1 day avg] (mg/cm^2-day)	Stabilized Area Emission Rates: VF_{1-DAY} (lbs/cm^2-hour)	Phase 2.4 Mitigated VF_{1-DAY} (lbs/cm^2-hour)	All Other Phases Mitigated VF_{1-DAY} (lbs/cm^2-hour)	Emissions (lbs/hour): Phase / Subphase No. 2.4 Active Area Emissions (lbs/hour)	Phase 2.4 Inactive Area Emissions (lbs/hour)	Phase 2.4 Total Emissions (lbs/hour)	Phase / Subphase No. 3.1 Active Area Emissions (lbs/hour)	Phase 3.1 Inactive Area Emissions (lbs/hour)	Phase 3.1 Total Emissions (lbs/hour)
Non-Pit F													
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	-	1.59E-09	-	-	-	3.08E-02	4.84E-02	7.92E-02
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	-	4.08E-10	-	-	-	7.82E-03	1.24E-02	2.02E-02
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	-	4.35E-11	-	-	-	6.36E-04	1.32E-03	1.96E-03
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	-	1.64E-10	-	-	-	3.17E-03	4.99E-03	8.16E-03
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	-	2.31E-11	-	-	-	4.46E-04	7.02E-04	1.15E-03
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	-	4.61E-11	-	-	-	8.92E-04	1.40E-03	2.29E-03
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	-	5.04E-11	-	-	-	9.62E-04	1.53E-03	2.49E-03
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	-	1.16E-11	-	-	-	2.22E-04	3.53E-04	5.75E-04
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13	-	-	-	5.67E-06	9.00E-06	1.47E-05
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	-	1.33E-09	-	-	-	2.57E-02	4.03E-02	6.60E-02
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	-	2.93E-09	-	-	-	5.66E-02	8.89E-02	1.45E-01
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	-	4.53E-11	-	-	-	8.68E-04	1.38E-03	2.24E-03
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	-	1.59E-10	-	-	-	3.08E-03	4.83E-03	7.91E-03
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	-	6.85E-10	-	-	-	1.32E-02	2.08E-02	3.40E-02
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	-	3.80E-13	-	-	-	3.89E-06	1.16E-05	1.54E-05
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14	-	-	-	2.69E-07	4.45E-07	7.14E-07
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12	-	-	-	3.71E-05	5.80E-05	9.52E-05
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	-	8.36E-15	-	-	-	5.90E-08	2.54E-07	3.13E-07
132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	-	3.29E-14	-	-	-	2.28E-07	1.00E-06	1.23E-06
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	-	3.17E-10	-	-	-	6.10E-03	9.64E-03	1.57E-02
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	-	1.09E-10	-	-	-	2.01E-03	3.31E-03	5.33E-03
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	-	5.19E-10	-	-	-	9.61E-03	1.58E-02	2.54E-02
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	-	2.41E-10	-	-	-	4.65E-03	7.31E-03	1.20E-02
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	-	1.94E-10	-	-	-	3.73E-03	5.90E-03	9.64E-03
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	-	5.97E-10	-	-	-	1.15E-02	1.81E-02	2.96E-02
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	-	1.13E-10	-	-	-	2.13E-03	3.43E-03	5.56E-03
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	-	1.74E-10	-	-	-	3.33E-03	5.28E-03	8.60E-03
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	-	1.90E-10	-	-	-	3.52E-03	5.78E-03	9.30E-03
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	-	3.94E-10	-	-	-	7.58E-03	1.20E-02	1.96E-02
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	-	4.44E-09	-	-	-	8.63E-02	1.35E-01	2.21E-01
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	-	2.23E-09	-	-	-	4.35E-02	6.79E-02	1.11E-01
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	-	1.69E-10	-	-	-	3.25E-03	5.14E-03	8.40E-03
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	-	1.12E-08	-	-	-	2.17E-01	3.39E-01	5.56E-01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	-	5.08E-10	-	-	-	9.78E-03	1.54E-02	2.52E-02
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	-	1.49E-08	-	-	-	2.89E-01	4.51E-01	7.40E-01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	-	7.81E-11	-	-	-	1.49E-03	2.37E-03	3.87E-03
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	-	2.71E-10	-	-	-	5.14E-03	8.22E-03	1.34E-02
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13	-	-	-	2.37E-06	3.78E-06	6.15E-06
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	-	6.36E-11	-	-	-	1.21E-03	1.93E-03	3.14E-03
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	-	5.45E-09	-	-	-	1.06E-01	1.66E-01	2.71E-01
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	-	1.34E-10	-	-	-	2.60E-03	4.07E-03	6.66E-03
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	-	3.66E-09	-	-	-	7.11E-02	1.11E-01	1.82E-01
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	-	1.70E-10	-	-	-	3.30E-03	5.17E-03	8.47E-03
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	-	1.63E-10	-	-	-	3.16E-03	4.94E-03	8.10E-03
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12	-	-	-	3.43E-05	5.36E-05	8.78E-05
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	-	1.01E-10	-	-	-	1.97E-03	3.07E-03	5.04E-03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	-	1.65E-09	-	-	-	3.20E-02	5.01E-02	8.20E-02
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	-	1.75E-11	-	-	-	3.31E-04	5.31E-04	8.62E-04
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	-	4.03E-12	-	-	-	7.69E-05	1.22E-04	1.99E-04
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	-	5.10E-13	-	-	-	7.57E-06	1.55E-05	2.31E-05
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	-	3.76E-11	-	-	-	3.84E-04	1.14E-03	1.53E-03
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	-	1.11E-12	-	-	-	1.31E-05	3.37E-05	4.68E-05
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14	-	-	-	3.06E-07	5.10E-07	8.16E-07
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	-	1.62E-17	-	-	-	1.47E-02	4.92E-10	1.47E-02
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	-	1.10E-10	-	-	-	2.00E-03	3.35E-03	5.35E-03
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	-	3.68E-11	-	-	-	6.52E-04	1.12E-03	1.77E-03
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	-	4.15E-11	-	-	-	7.75E-04	1.26E-03	2.03E-03
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	-	1.14E-10	-	-	-	2.20E-03	3.46E-03	5.66E-03
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	-	6.95E-12	-	-	-	1.33E-04	2.11E-04	3.44E-04
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	-	1.42E-10	-	-	-	2.71E-03	4.30E-03	7.01E-03
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13	-	-	-	2.44E-06	3.95E-06	6.39E-06
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	-	2.53E-13	-	-	-	4.88E-06	7.68E-06	1.26E-05
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	-	4.00E-09	-	-	-	7.77E-02	1.21E-01	1.99E-01
Pit F													
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-	3.69E-06	2.13E-04	2.17E-04	-	-	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-	1.73E-05	1.01E-03	1.03E-03	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-	4.96E-06	3.00E-04	3.05E-04	-	-	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-	3.78E-07	2.22E-05	2.26E-05	-	-	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-	7.53E-06	4.32E-04	4.39E-04	-	-	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-	1.65E-06	9.73E-05	9.89E-05	-	-	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-	1.70E-04	1.85E-02	1.86E-02	-	-	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-	2.17E-05	1.34E-03	1.36E-03	-	-	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-	1.55E-06	9.01E-05	9.17E-05	-	-	-
	Totals							**0.00**	**0.02**	**0.02**	**1.18**	**1.82**	**3.00**

CAS No.	Chemical	Phase / Subphase No. 4a.3 Active Area Emissions (lbs/hour)	4a.3 Inactive Area Emissions (lbs/hour)	4a.3 Total Emissions (lbs/hour)	Phase / Subphase No. 4b.3 Active Area Emissions (lbs/hour)	4b.3 Inactive Area Emissions (lbs/hour)	4b.3 Total Emissions (lbs/hour)	Phase / Subphase No. 4c.3 Active Area Emissions (lbs/hour)	4c.3 Inactive Area Emissions (lbs/hour)	4c.3 Total Emissions (lbs/hour)	Phase / Subphase No. 4d.3 Active Area Emissions (lbs/hour)	4d.3 Inactive Area Emissions (lbs/hour)	4d.3 Total Emissions (lbs/hour)	Phase / Subphase No. 7.1 Active Area Emissions (lbs/hour)	7.1 Inactive Area Emissions (lbs/hour)	7.1 Total Emissions (lbs/hour)
Non-Pit F																
100-41-4	Ethylbenzene	3.08E-02	4.84E-02	7.92E-02	3.08E-02	4.84E-02	7.92E-02	3.08E-02	4.84E-02	7.92E-02	3.08E-02	4.84E-02	7.92E-02	3.39E-02	5.32E-02	8.71E-02
100-42-5	Styrene	7.82E-03	1.24E-02	2.02E-02	7.82E-03	1.24E-02	2.02E-02	7.82E-03	1.24E-02	2.02E-02	7.82E-03	1.24E-02	2.02E-02	8.60E-03	1.36E-02	2.22E-02
10042-59-8	2-PROPYL-1-HEPTANOL	6.36E-04	1.32E-03	1.96E-03	6.36E-04	1.32E-03	1.96E-03	6.36E-04	1.32E-03	1.96E-03	6.36E-04	1.32E-03	1.96E-03	6.99E-04	1.45E-03	2.15E-03
103-65-1	n-Propylbenzene	3.17E-03	4.99E-03	8.16E-03	3.17E-03	4.99E-03	8.16E-03	3.17E-03	4.99E-03	8.16E-03	3.17E-03	4.99E-03	8.16E-03	3.49E-03	5.49E-03	8.98E-03
104-51-8	n-Butylbenzene	4.46E-04	7.02E-04	1.15E-03	4.46E-04	7.02E-04	1.15E-03	4.46E-04	7.02E-04	1.15E-03	4.46E-04	7.02E-04	1.15E-03	4.90E-04	7.73E-04	1.26E-03
106-42-3	P-XYLENE	8.92E-04	1.40E-03	2.29E-03	8.92E-04	1.40E-03	2.29E-03	8.92E-04	1.40E-03	2.29E-03	8.92E-04	1.40E-03	2.29E-03	9.82E-04	1.54E-03	2.52E-03
106-43-4	4-Chlorotoluene	9.62E-04	1.53E-03	2.49E-03	9.62E-04	1.53E-03	2.49E-03	9.62E-04	1.53E-03	2.49E-03	9.62E-04	1.53E-03	2.49E-03	1.06E-03	1.69E-03	2.74E-03
106-46-7	1,4-Dichlorobenzene	2.22E-04	3.53E-04	5.75E-04	2.22E-04	3.53E-04	5.75E-04	2.22E-04	3.53E-04	5.75E-04	2.22E-04	3.53E-04	5.75E-04	2.44E-04	3.88E-04	6.32E-04
106-93-4	1,2-Dibromoethane	5.67E-06	9.00E-06	1.47E-05	5.67E-06	9.00E-06	1.47E-05	5.67E-06	9.00E-06	1.47E-05	5.67E-06	9.00E-06	1.47E-05	6.24E-06	9.90E-06	1.61E-05
107-06-2	1,2-Dichloroethane	2.57E-02	4.03E-02	6.60E-02	2.57E-02	4.03E-02	6.60E-02	2.57E-02	4.03E-02	6.60E-02	2.57E-02	4.03E-02	6.60E-02	2.83E-02	4.43E-02	7.26E-02
108-38-3	M-XYLENE	5.66E-02	8.89E-02	1.45E-01	5.66E-02	8.89E-02	1.45E-01	5.66E-02	8.89E-02	1.45E-01	5.66E-02	8.89E-02	1.45E-01	6.22E-02	9.78E-02	1.60E-01
108-67-8	1,3,5-Trimethylbenzene	8.68E-04	1.38E-03	2.24E-03	8.68E-04	1.38E-03	2.24E-03	8.68E-04	1.38E-03	2.24E-03	8.68E-04	1.38E-03	2.24E-03	9.55E-04	1.51E-03	2.47E-03
108-88-3	Toluene	3.08E-03	4.83E-03	7.91E-03	3.08E-03	4.83E-03	7.91E-03	3.08E-03	4.83E-03	7.91E-03	3.08E-03	4.83E-03	7.91E-03	3.39E-03	5.31E-03	8.70E-03
108-90-7	Chlorobenzene	1.32E-02	2.08E-02	3.40E-02	1.32E-02	2.08E-02	3.40E-02	1.32E-02	2.08E-02	3.40E-02	1.32E-02	2.08E-02	3.40E-02	1.46E-02	2.29E-02	3.74E-02
120-12-7	Anthracene	3.89E-06	1.16E-05	1.54E-05	3.89E-06	1.16E-05	1.54E-05	3.89E-06	1.16E-05	1.54E-05	3.89E-06	1.16E-05	1.54E-05	4.28E-06	1.27E-05	1.70E-05
120-82-1	1,2,4-Trichlorobenzene	2.69E-07	4.45E-07	7.14E-07	2.69E-07	4.45E-07	7.14E-07	2.69E-07	4.45E-07	7.14E-07	2.69E-07	4.45E-07	7.14E-07	2.96E-07	4.90E-07	7.86E-07
127-18-4	Tetrachloroethene	3.71E-05	5.80E-05	9.52E-05	3.71E-05	5.80E-05	9.52E-05	3.71E-05	5.80E-05	9.52E-05	3.71E-05	5.80E-05	9.52E-05	4.08E-05	6.39E-05	1.05E-04
129-00-0	Pyrene	5.90E-08	2.54E-07	3.13E-07	5.90E-08	2.54E-07	3.13E-07	5.90E-08	2.54E-07	3.13E-07	5.90E-08	2.54E-07	3.13E-07	6.49E-08	2.79E-07	3.44E-07
132-64-9	Dibenzofuran	2.28E-07	1.00E-06	1.23E-06	2.28E-07	1.00E-06	1.23E-06	2.28E-07	1.00E-06	1.23E-06	2.28E-07	1.00E-06	1.23E-06	2.51E-07	1.10E-06	1.35E-06
1330-20-7	XYLENES (TOTAL)	6.10E-03	9.64E-03	1.57E-02	6.10E-03	9.64E-03	1.57E-02	6.10E-03	9.64E-03	1.57E-02	6.10E-03	9.64E-03	1.57E-02	6.71E-03	1.06E-02	1.73E-02
135-98-8	(1-METHYLPROPYL)BENZENE	2.01E-03	3.31E-03	5.33E-03	2.01E-03	3.31E-03	5.33E-03	2.01E-03	3.31E-03	5.33E-03	2.01E-03	3.31E-03	5.33E-03	2.21E-03	3.65E-03	5.86E-03
1653-40-3	6-METHYL-1,1-HEPTANOL	9.61E-03	1.58E-02	2.54E-02	9.61E-03	1.58E-02	2.54E-02	9.61E-03	1.58E-02	2.54E-02	9.61E-03	1.58E-02	2.54E-02	1.06E-02	1.73E-02	2.79E-02
179601-23-1	m,p-Xylenes	4.65E-03	7.31E-03	1.20E-02	4.65E-03	7.31E-03	1.20E-02	4.65E-03	7.31E-03	1.20E-02	4.65E-03	7.31E-03	1.20E-02	5.11E-03	8.04E-03	1.32E-02
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	3.73E-03	5.90E-03	9.64E-03	3.73E-03	5.90E-03	9.64E-03	3.73E-03	5.90E-03	9.64E-03	3.73E-03	5.90E-03	9.64E-03	4.10E-03	6.49E-03	1.06E-02
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.15E-02	1.81E-02	2.96E-02	1.15E-02	1.81E-02	2.96E-02	1.15E-02	1.81E-02	2.96E-02	1.15E-02	1.81E-02	2.96E-02	1.26E-02	1.99E-02	3.26E-02
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	2.13E-03	3.43E-03	5.56E-03	2.13E-03	3.43E-03	5.56E-03	2.13E-03	3.43E-03	5.56E-03	2.13E-03	3.43E-03	5.56E-03	2.34E-03	3.77E-03	6.12E-03
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.33E-03	5.28E-03	8.60E-03	3.33E-03	5.28E-03	8.60E-03	3.33E-03	5.28E-03	8.60E-03	3.33E-03	5.28E-03	8.60E-03	3.66E-03	5.80E-03	9.47E-03
26952-21-6	ISOOCTANOL	3.52E-03	5.78E-03	9.30E-03	3.52E-03	5.78E-03	9.30E-03	3.52E-03	5.78E-03	9.30E-03	3.52E-03	5.78E-03	9.30E-03	3.87E-03	6.35E-03	1.02E-02
2719-52-0	(1-METHYLBUTYL)BENZENE	7.58E-03	1.20E-02	1.96E-02	7.58E-03	1.20E-02	1.96E-02	7.58E-03	1.20E-02	1.96E-02	7.58E-03	1.20E-02	1.96E-02	8.33E-03	1.32E-02	2.15E-02
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	8.63E-02	1.35E-01	2.21E-01	8.63E-02	1.35E-01	2.21E-01	8.63E-02	1.35E-01	2.21E-01	8.63E-02	1.35E-01	2.21E-01	9.49E-02	1.48E-01	2.43E-01
3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.35E-02	6.79E-02	1.11E-01	4.35E-02	6.79E-02	1.11E-01	4.35E-02	6.79E-02	1.11E-01	4.35E-02	6.79E-02	1.11E-01	4.78E-02	7.47E-02	1.22E-01
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	3.25E-03	5.14E-03	8.40E-03	3.25E-03	5.14E-03	8.40E-03	3.25E-03	5.14E-03	8.40E-03	3.25E-03	5.14E-03	8.40E-03	3.58E-03	5.66E-03	9.24E-03
496-10-6	OCTAHYDROINDENE	2.17E-01	3.39E-01	5.56E-01	2.17E-01	3.39E-01	5.56E-01	2.17E-01	3.39E-01	5.56E-01	2.17E-01	3.39E-01	5.56E-01	2.39E-01	3.73E-01	6.12E-01
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	9.78E-03	1.54E-02	2.52E-02	9.78E-03	1.54E-02	2.52E-02	9.78E-03	1.54E-02	2.52E-02	9.78E-03	1.54E-02	2.52E-02	1.08E-02	1.70E-02	2.77E-02
5364-83-0	(1-PROPENYL)CYCLOHEXANE	2.89E-01	4.51E-01	7.40E-01	2.89E-01	4.51E-01	7.40E-01	2.89E-01	4.51E-01	7.40E-01	2.89E-01	4.51E-01	7.40E-01	3.18E-01	4.97E-01	8.14E-01
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.49E-03	2.37E-03	3.87E-03	1.49E-03	2.37E-03	3.87E-03	1.49E-03	2.37E-03	3.87E-03	1.49E-03	2.37E-03	3.87E-03	1.64E-03	2.61E-03	4.25E-03
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	5.14E-03	8.22E-03	1.34E-02	5.14E-03	8.22E-03	1.34E-02	5.14E-03	8.22E-03	1.34E-02	5.14E-03	8.22E-03	1.34E-02	5.66E-03	9.04E-03	1.47E-02
591-78-6	2-Hexanone	2.37E-06	3.78E-06	6.15E-06	2.37E-06	3.78E-06	6.15E-06	2.37E-06	3.78E-06	6.15E-06	2.37E-06	3.78E-06	6.15E-06	2.60E-06	4.16E-06	6.76E-06
67-64-1	2-PROPANONE	1.21E-03	1.93E-03	3.14E-03	1.21E-03	1.93E-03	3.14E-03	1.21E-03	1.93E-03	3.14E-03	1.21E-03	1.93E-03	3.14E-03	1.33E-03	2.13E-03	3.45E-03
67-66-3	Chloroform	1.06E-01	1.66E-01	2.71E-01	1.06E-01	1.66E-01	2.71E-01	1.06E-01	1.66E-01	2.71E-01	1.06E-01	1.66E-01	2.71E-01	1.16E-01	1.82E-01	2.99E-01
71-43-2	Benzene	2.60E-03	4.07E-03	6.66E-03	2.60E-03	4.07E-03	6.66E-03	2.60E-03	4.07E-03	6.66E-03	2.60E-03	4.07E-03	6.66E-03	2.86E-03	4.47E-03	7.33E-03
71-55-6	1,1,1-Trichloroethane	7.11E-02	1.11E-01	1.82E-01	7.11E-02	1.11E-01	1.82E-01	7.11E-02	1.11E-01	1.82E-01	7.11E-02	1.11E-01	1.82E-01	7.82E-02	1.22E-01	2.01E-01
75-09-2	Methylene Chloride	3.30E-03	5.17E-03	8.47E-03	3.30E-03	5.17E-03	8.47E-03	3.30E-03	5.17E-03	8.47E-03	3.30E-03	5.17E-03	8.47E-03	3.63E-03	5.69E-03	9.32E-03
75-34-3	1,1-Dichloroethane	3.16E-03	4.94E-03	8.10E-03	3.16E-03	4.94E-03	8.10E-03	3.16E-03	4.94E-03	8.10E-03	3.16E-03	4.94E-03	8.10E-03	3.47E-03	5.44E-03	8.91E-03
75-35-4	1,1-Dichloroethene	3.43E-05	5.36E-05	8.78E-05	3.43E-05	5.36E-05	8.78E-05	3.43E-05	5.36E-05	8.78E-05	3.43E-05	5.36E-05	8.78E-05	3.77E-05	5.89E-05	9.66E-05
75-69-4	Trichlorofluoromethane	1.97E-03	3.07E-03	5.04E-03	1.97E-03	3.07E-03	5.04E-03	1.97E-03	3.07E-03	5.04E-03	1.97E-03	3.07E-03	5.04E-03	2.16E-03	3.38E-03	5.55E-03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.20E-02	5.01E-02	8.20E-02	3.20E-02	5.01E-02	8.20E-02	3.20E-02	5.01E-02	8.20E-02	3.20E-02	5.01E-02	8.20E-02	3.52E-02	5.51E-02	9.02E-02
78-93-3	2-Butanone	3.31E-04	5.31E-04	8.62E-04	3.31E-04	5.31E-04	8.62E-04	3.31E-04	5.31E-04	8.62E-04	3.31E-04	5.31E-04	8.62E-04	3.64E-04	5.84E-04	9.48E-04
79-34-5	1,1,2,2-Tetrachloroethane	7.69E-05	1.22E-04	1.99E-04	7.69E-05	1.22E-04	1.99E-04	7.69E-05	1.22E-04	1.99E-04	7.69E-05	1.22E-04	1.99E-04	8.46E-05	1.35E-04	2.19E-04
83-32-9	Acenaphthene	7.57E-06	1.55E-05	2.31E-05	7.57E-06	1.55E-05	2.31E-05	7.57E-06	1.55E-05	2.31E-05	7.57E-06	1.55E-05	2.31E-05	8.33E-06	1.70E-05	2.54E-05
85-01-8	Phenanthrene	3.84E-04	1.14E-03	1.53E-03	3.84E-04	1.14E-03	1.53E-03	3.84E-04	1.14E-03	1.53E-03	3.84E-04	1.14E-03	1.53E-03	4.23E-04	1.26E-03	1.68E-03
86-73-7	Fluorene	1.31E-05	3.37E-05	4.68E-05	1.31E-05	3.37E-05	4.68E-05	1.31E-05	3.37E-05	4.68E-05	1.31E-05	3.37E-05	4.68E-05	1.44E-05	3.71E-05	5.14E-05
87-61-6	1,2,3-Trichlorobenzene	3.06E-07	5.10E-07	8.16E-07	3.06E-07	5.10E-07	8.16E-07	3.06E-07	5.10E-07	8.16E-07	3.06E-07	5.10E-07	8.16E-07	3.37E-07	5.61E-07	8.98E-07
91-17-8	DECAHYDRONAPHTHALENE	1.47E-02	4.92E-10	1.47E-02	1.47E-02	4.92E-10	1.47E-02	1.47E-02	4.92E-10	1.47E-02	1.47E-02	4.92E-10	1.47E-02	1.61E-02	5.41E-10	1.61E-02
91-20-3	Naphthalene	2.00E-03	3.35E-03	5.35E-03	2.00E-03	3.35E-03	5.35E-03	2.00E-03	3.35E-03	5.35E-03	2.00E-03	3.35E-03	5.35E-03	2.20E-03	3.69E-03	5.89E-03
91-57-6	2-Methylnaphthalene	6.52E-04	1.12E-03	1.77E-03	6.52E-04	1.12E-03	1.77E-03	6.52E-04	1.12E-03	1.77E-03	6.52E-04	1.12E-03	1.77E-03	7.18E-04	1.23E-03	1.95E-03
941-60-6	1,1,4-6-TETRAMETHYLINDANE	7.75E-04	1.26E-03	2.03E-03	7.75E-04	1.26E-03	2.03E-03	7.75E-04	1.26E-03	2.03E-03	7.75E-04	1.26E-03	2.03E-03	8.53E-04	1.39E-03	2.24E-03
95-47-6	o-Xylene	2.20E-03	3.46E-03	5.66E-03	2.20E-03	3.46E-03	5.66E-03	2.20E-03	3.46E-03	5.66E-03	2.20E-03	3.46E-03	5.66E-03	2.42E-03	3.80E-03	6.22E-03
95-50-1	1,2-Dichlorobenzene	1.33E-04	2.11E-04	3.44E-04	1.33E-04	2.11E-04	3.44E-04	1.33E-04	2.11E-04	3.44E-04	1.33E-04	2.11E-04	3.44E-04	1.46E-04	2.32E-04	3.78E-04
95-63-6	1,2,4-Trimethylbenzene	2.71E-03	4.30E-03	7.01E-03	2.71E-03	4.30E-03	7.01E-03	2.71E-03	4.30E-03	7.01E-03	2.71E-03	4.30E-03	7.01E-03	2.98E-03	4.73E-03	7.71E-03
96-12-8	1,2-Dibromo-3-Chloropropane	2.44E-06	3.95E-06	6.39E-06	2.44E-06	3.95E-06	6.39E-06	2.44E-06	3.95E-06	6.39E-06	2.44E-06	3.95E-06	6.39E-06	2.68E-06	4.35E-06	7.03E-06
98-06-6	tert-Butylbenzene	4.88E-06	7.68E-06	1.26E-05	4.88E-06	7.68E-06	1.26E-05	4.88E-06	7.68E-06	1.26E-05	4.88E-06	7.68E-06	1.26E-05	5.37E-06	8.45E-06	1.38E-05
98-82-8	1-METHYLETHYLBENZENE	7.77E-02	1.21E-01	1.99E-01	7.77E-02	1.21E-01	1.99E-01	7.77E-02	1.21E-01	1.99E-01	7.77E-02	1.21E-01	1.99E-01	8.55E-02	1.34E-01	2.19E-01
Pit F																
100-41-4	Ethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	Styrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	(1-METHYLPROPYL)BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	2-PROPANONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	2-Butanone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	Phenanthrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Totals	**1.18**	**1.82**	**3.00**	**1.18**	**1.82**	**3.00**	**1.18**	**1.82**	**3.00**	**1.18**	**1.82**	**3.00**	**1.29**	**2.00**	**3.30**

Annual

Area Emissions (AE) = $t_{TYP} \times VF_{1\text{-}HR} \times A_S$ *(On-going emissions during the first hour prior to stabilization from temporary portion of excavated area. Emissions calculated for typical workday hours in a day and number of days for each phase.)*

Stabilized Area Emissions (SAE) = $(1 - MR) \times t_{TYP} \times VF_{1\text{-}DAY} \times A_S$ *(On-going emissions from the stabilized portion of the excavated area plus emissions from the temporary portion of the excavated areas unstabilized during the workday based on 1-day average volatilization factors. Consistent with the stockpile assumptions, the use of 1-day average volatilziation factors were used as a conservative assumption, which assumes soil parcels are removed from the surface daily. Emissions calculated for typical workday and overnight hours in a day and number of days for each phase.)*

Total Emissions = AE + SAE

		Unstabilized Area Emission Rates		Stabilized Area Emission Rates			
						Phase 2.4	All Other Phases
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm²-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm²-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm²-day)	$VF_{1\text{-}DAY}$ (lbs/cm²-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm²-hour)	Mitigated $VF_{1\text{-}DAY}$ (lbs/cm²-hour)
Non-Pit F							
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	-	1.59E-09
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	-	4.08E-10
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	-	4.35E-11
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	-	1.64E-10
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	-	2.31E-11
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	-	4.61E-11
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	-	5.04E-11
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	-	1.16E-11
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	-	2.96E-13
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	-	1.33E-09
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	-	2.93E-09
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	-	4.53E-11
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	-	1.59E-10
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	-	6.85E-10
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	-	3.80E-13
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	-	1.46E-14
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	-	1.91E-12
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	-	8.36E-15
132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	-	3.29E-14
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	-	3.17E-10
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	-	1.09E-10
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	-	5.19E-10
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	-	2.41E-10
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	-	1.94E-10
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	-	5.97E-10
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	-	1.13E-10
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	-	1.74E-10
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	-	1.90E-10
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	-	3.94E-10
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	-	4.44E-09
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	-	2.23E-09
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	-	1.69E-10
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	-	1.12E-08
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	-	5.08E-10
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	-	1.49E-08
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	-	7.81E-11
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	-	2.71E-10
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	-	1.24E-13
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	-	6.36E-11
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	-	5.45E-09
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	-	1.34E-10
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	-	3.66E-09
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	-	1.70E-10
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	-	1.63E-10
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	-	1.76E-12
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	-	1.01E-10
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	-	1.65E-09
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	-	1.75E-11
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	-	4.03E-12
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	-	5.10E-13
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	-	3.76E-11
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	-	1.11E-12
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	-	1.68E-14
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	-	1.62E-17
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	-	1.10E-10
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	-	3.68E-11
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	-	4.15E-11
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	-	1.14E-10
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	-	6.95E-12
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	-	1.42E-10
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	-	1.30E-13
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	-	2.53E-13
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	-	4.00E-09
Pit F							
100-41-4	Ethylbenzene	1.15E-01	5.30E-10	3.69E-02	3.39E-09	1.70E-10	-
100-42-5	Styrene	5.42E-01	2.49E-09	1.75E-01	1.61E-08	8.04E-10	-
135-98-8	(1-METHYLPROPYL)BENZENE	1.55E-01	7.11E-10	5.20E-02	4.78E-09	2.39E-10	-
67-64-1	2-PROPANONE	1.18E-02	5.42E-11	3.85E-03	3.54E-10	1.77E-11	-
75-15-0	Carbon Disulfide	2.35E-01	1.08E-09	7.50E-02	6.89E-09	3.44E-10	-
78-93-3	2-Butanone	5.17E-02	2.38E-10	1.69E-02	1.55E-09	7.76E-11	-
85-01-8	Phenanthrene	5.30E+00	2.43E-08	3.21E+00	2.95E-07	1.47E-08	-
91-20-3	Naphthalene	6.79E-01	3.12E-09	2.32E-01	2.13E-08	1.07E-09	-
95-63-6	1,2,4-Trimethylbenzene	4.84E-02	2.22E-10	1.56E-02	1.44E-09	7.19E-11	-
	Totals						

Emissions (lbs/year)

	Phase / Subphase No. 2.4			Phase / Subphase No. 3.1			Phase / Subphase No. 4a.3		
CAS No.	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)
Non-Pit F									
100-41-4	-	-	-	2.04E+01	8.53E+01	1.06E+02	1.54E+01	6.44E+01	7.98E+01
100-42-5	-	-	-	5.17E+00	2.19E+01	2.70E+01	3.90E+00	1.65E+01	2.04E+01
10042-59-8	-	-	-	4.20E-01	2.33E+00	2.75E+00	3.17E-01	1.76E+00	2.08E+00
103-65-1	-	-	-	2.10E+00	8.80E+00	1.09E+01	1.59E+00	6.65E+00	8.23E+00
104-51-8	-	-	-	2.95E-01	1.24E+00	1.53E+00	2.23E-01	9.35E-01	1.16E+00
106-42-3	-	-	-	5.90E-01	2.47E+00	3.06E+00	4.46E-01	1.87E+00	2.31E+00
106-43-4	-	-	-	6.37E-01	2.70E+00	3.34E+00	4.81E-01	2.04E+00	2.52E+00
106-46-7	-	-	-	1.47E-01	6.22E-01	7.69E-01	1.11E-01	4.70E-01	5.81E-01
106-93-4	-	-	-	3.75E-03	1.59E-02	1.96E-02	2.83E-03	1.20E-02	1.48E-02
107-06-2	-	-	-	1.70E+01	7.11E+01	8.81E+01	1.28E+01	5.37E+01	6.65E+01
108-38-3	-	-	-	3.74E+01	1.57E+02	1.94E+02	2.83E+01	1.18E+02	1.47E+02
108-67-8	-	-	-	5.74E-01	2.43E+00	3.00E+00	4.34E-01	1.83E+00	2.27E+00
108-88-3	-	-	-	2.04E+00	8.52E+00	1.06E+01	1.54E+00	6.43E+00	7.97E+00
108-90-7	-	-	-	8.75E+00	3.67E+01	4.54E+01	6.61E+00	2.77E+01	3.43E+01
120-12-7	-	-	-	2.57E-03	2.04E-02	2.29E-02	1.94E-03	1.54E-02	1.73E-02
120-82-1	-	-	-	1.78E-04	7.85E-04	9.63E-04	1.35E-04	5.93E-04	7.27E-04
127-18-4	-	-	-	2.45E-02	1.02E-01	1.27E-01	1.85E-02	7.73E-02	9.59E-02
129-00-0	-	-	-	3.91E-05	4.48E-04	4.87E-04	2.95E-05	3.38E-04	3.68E-04
132-64-9	-	-	-	1.51E-04	1.76E-03	1.91E-03	1.14E-04	1.33E-03	1.45E-03
1330-20-7	-	-	-	4.03E+00	1.70E+01	2.10E+01	3.05E+00	1.28E+01	1.59E+01
135-98-8	-	-	-	1.33E+00	5.85E+00	7.18E+00	1.00E+00	4.42E+00	5.42E+00
1653-40-3	-	-	-	6.35E+00	2.78E+01	3.41E+01	4.80E+00	2.10E+01	2.58E+01
179601-23-1	-	-	-	3.08E+00	1.29E+01	1.60E+01	2.32E+00	9.73E+00	1.21E+01
1985-57-5	-	-	-	2.47E+00	1.04E+01	1.29E+01	1.86E+00	7.86E+00	9.73E+00
2049-95-8	-	-	-	7.60E+00	3.20E+01	3.96E+01	5.74E+00	2.42E+01	2.99E+01
22531-20-0	-	-	-	1.41E+00	6.05E+00	7.46E+00	1.06E+00	4.57E+00	5.63E+00
22975-62-8	-	-	-	2.20E+00	9.31E+00	1.15E+01	1.66E+00	7.03E+00	8.69E+00
26952-21-6	-	-	-	2.33E+00	1.02E+01	1.25E+01	1.76E+00	7.69E+00	9.45E+00
2719-52-0	-	-	-	5.01E+00	2.11E+01	2.61E+01	3.78E+00	1.59E+01	1.97E+01
2958-76-1	-	-	-	5.71E+01	2.38E+02	2.95E+02	4.31E+01	1.80E+02	2.23E+02
3875-51-2	-	-	-	2.88E+01	1.20E+02	1.48E+02	2.17E+01	9.04E+01	1.12E+02
4218-48-8	-	-	-	2.15E+00	9.07E+00	1.12E+01	1.63E+00	6.85E+00	8.48E+00
496-10-6	-	-	-	1.44E+02	5.98E+02	7.42E+02	1.08E+02	4.52E+02	5.60E+02
527-53-7	-	-	-	6.47E+00	2.72E+01	3.37E+01	4.88E+00	2.06E+01	2.55E+01
5364-83-0	-	-	-	1.91E+02	7.96E+02	9.87E+02	1.44E+02	6.01E+02	7.46E+02
54340-86-2	-	-	-	9.87E-01	4.19E+00	5.17E+00	7.45E-01	3.16E+00	3.91E+00
5557-93-7	-	-	-	3.40E+00	1.45E+01	1.79E+01	2.57E+00	1.09E+01	1.35E+01
591-78-6	-	-	-	1.57E-03	6.67E-03	8.23E-03	1.18E-03	5.03E-03	6.22E-03
67-64-1	-	-	-	7.99E-01	3.41E+00	4.21E+00	6.03E-01	2.57E+00	3.18E+00
67-66-3	-	-	-	7.00E+01	2.92E+02	3.62E+02	5.29E+01	2.21E+02	2.73E+02
71-43-2	-	-	-	1.72E+00	7.17E+00	8.89E+00	1.30E+00	5.42E+00	6.71E+00
71-55-6	-	-	-	4.70E+01	1.96E+02	2.43E+02	3.55E+01	1.48E+02	1.84E+02
75-09-2	-	-	-	2.18E+00	9.12E+00	1.13E+01	1.65E+00	6.89E+00	8.54E+00
75-34-3	-	-	-	2.09E+00	8.72E+00	1.08E+01	1.58E+00	6.58E+00	8.16E+00
75-35-4	-	-	-	2.27E-02	9.45E-02	1.17E-01	1.71E-02	7.13E-02	8.85E-02
75-69-4	-	-	-	1.30E+00	5.42E+00	6.72E+00	9.83E-01	4.10E+00	5.08E+00
76-13-1	-	-	-	2.11E+01	8.83E+01	1.09E+02	1.60E+01	6.67E+01	8.27E+01
78-93-3	-	-	-	2.19E-01	9.36E-01	1.16E+00	1.65E-01	7.07E-01	8.72E-01
79-34-5	-	-	-	5.09E-02	2.16E-01	2.67E-01	3.84E-02	1.63E-01	2.01E-01
83-32-9	-	-	-	5.01E-03	2.73E-02	3.23E-02	3.78E-03	2.06E-02	2.44E-02
85-01-8	-	-	-	2.54E-01	2.01E+00	2.27E+00	1.92E-01	1.52E+00	1.71E+00
86-73-7	-	-	-	8.64E-03	5.95E-02	6.81E-02	6.52E-03	4.49E-02	5.14E-02
87-61-6	-	-	-	2.03E-04	8.99E-04	1.10E-03	1.53E-04	6.79E-04	8.32E-04
91-17-8	-	-	-	9.71E+00	8.67E-07	9.71E+00	7.33E+00	6.55E-07	7.33E+00
91-20-3	-	-	-	1.32E+00	5.92E+00	7.24E+00	9.98E-01	4.47E+00	5.46E+00
91-57-6	-	-	-	4.32E-01	1.97E+00	2.40E+00	3.26E-01	1.49E+00	1.81E+00
941-60-6	-	-	-	5.13E-01	2.22E+00	2.73E+00	3.87E-01	1.68E+00	2.07E+00
95-47-6	-	-	-	1.46E+00	6.10E+00	7.55E+00	1.10E+00	4.60E+00	5.70E+00
95-50-1	-	-	-	8.78E-02	3.72E-01	4.60E-01	6.63E-02	2.81E-01	3.47E-01
95-63-6	-	-	-	1.79E+00	7.59E+00	9.38E+00	1.35E+00	5.73E+00	7.08E+00
96-12-8	-	-	-	1.61E-03	6.97E-03	8.59E-03	1.22E-03	5.27E-03	6.48E-03
98-06-6	-	-	-	3.23E-03	1.35E-02	1.68E-02	2.44E-03	1.02E-02	1.27E-02
98-82-8	-	-	-	5.14E+01	2.14E+02	2.66E+02	3.88E+01	1.62E+02	2.00E+02
Pit F									
100-41-4	2.69E-03	4.13E-01	4.15E-01	-	-	-	-	-	-
100-42-5	1.26E-02	1.96E+00	1.97E+00	-	-	-	-	-	-
135-98-8	3.60E-03	5.81E-01	5.85E-01	-	-	-	-	-	-
67-64-1	2.75E-04	4.30E-02	4.33E-02	-	-	-	-	-	-
75-15-0	5.48E-03	8.37E-01	8.43E-01	-	-	-	-	-	-
78-93-3	1.20E-03	1.89E-01	1.90E-01	-	-	-	-	-	-
85-01-8	1.23E-01	3.58E+01	3.60E+01	-	-	-	-	-	-
91-20-3	1.58E-02	2.60E+00	2.61E+00	-	-	-	-	-	-
95-63-6	1.13E-03	1.75E-01	1.76E-01	-	-	-	-	-	-
Totals	**0.17**	**42.62**	**42.78**	**778.44**	**3213.07**	**3991.50**	**587.80**	**2426.19**	**3013.99**

	Phase / Subphase No. 4b.3			Phase / Subphase No. 4c.3			Phase / Subphase No. 4d.3			Phase / Subphase No. 7.1		
CAS No.	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)
Non-Pit F												
100-41-4	2.70E+01	1.13E+02	1.40E+02	2.58E+01	1.08E+02	1.34E+02	5.36E+01	2.25E+02	2.78E+02	2.22E+00	9.29E+00	1.15E+01
100-42-5	6.86E+00	2.90E+01	3.59E+01	6.54E+00	2.77E+01	3.42E+01	1.36E+01	5.76E+01	7.12E+01	5.63E-01	2.38E+00	2.94E+00
10042-59-8	5.58E-01	3.09E+00	3.65E+00	5.32E-01	2.95E+00	3.48E+00	1.11E+00	6.14E+00	7.24E+00	4.58E-02	2.54E-01	3.00E-01
103-65-1	2.78E+00	1.17E+01	1.45E+01	2.66E+00	1.11E+01	1.38E+01	5.53E+00	2.32E+01	2.87E+01	2.28E-01	9.58E-01	1.19E+00
104-51-8	3.91E-01	1.64E+00	2.03E+00	3.73E-01	1.57E+00	1.94E+00	7.76E-01	3.26E+00	4.04E+00	3.21E-02	1.35E-01	1.67E-01
106-42-3	7.83E-01	3.28E+00	4.06E+00	7.47E-01	3.13E+00	3.88E+00	1.55E+00	6.51E+00	8.06E+00	6.43E-02	2.69E-01	3.33E-01
106-43-4	8.45E-01	3.58E+00	4.43E+00	8.06E-01	3.42E+00	4.22E+00	1.68E+00	7.11E+00	8.79E+00	6.93E-02	2.94E-01	3.63E-01
106-46-7	1.95E-01	8.25E-01	1.02E+00	1.86E-01	7.87E-01	9.73E-01	3.87E-01	1.64E+00	2.02E+00	1.60E-02	6.77E-02	8.37E-02
106-93-4	4.98E-03	2.11E-02	2.60E-02	4.75E-03	2.01E-02	2.48E-02	9.88E-03	4.18E-02	5.17E-02	4.08E-04	1.73E-03	2.14E-03
107-06-2	2.25E+01	9.43E+01	1.17E+02	2.15E+01	9.00E+01	1.11E+02	4.47E+01	1.87E+02	2.32E+02	1.85E+00	7.74E+00	9.59E+00
108-38-3	4.96E+01	2.08E+02	2.58E+02	4.73E+01	1.98E+02	2.46E+02	9.85E+01	4.13E+02	5.11E+02	4.07E+00	1.71E+01	2.11E+01
108-67-8	7.62E-01	3.22E+00	3.98E+00	7.26E-01	3.07E+00	3.80E+00	1.51E+00	6.39E+00	7.90E+00	6.25E-02	2.64E-01	3.27E-01
108-88-3	2.70E+00	1.13E+01	1.40E+01	2.58E+00	1.08E+01	1.34E+01	5.37E+00	2.24E+01	2.78E+01	2.22E-01	9.27E-01	1.15E+00
108-90-7	1.16E+01	4.87E+01	6.03E+01	1.11E+01	4.64E+01	5.75E+01	2.30E+01	9.66E+01	1.20E+02	9.53E-01	3.99E+00	4.95E+00
120-12-7	3.41E-03	2.70E-02	3.04E-02	3.25E-03	2.58E-02	2.90E-02	6.77E-03	5.36E-02	6.04E-02	2.80E-04	2.22E-03	2.50E-03
120-82-1	2.36E-04	1.04E-03	1.28E-03	2.25E-04	9.93E-04	1.22E-03	4.69E-04	2.07E-03	2.54E-03	1.94E-05	8.54E-05	1.05E-04
127-18-4	3.26E-02	1.36E-01	1.68E-01	3.11E-02	1.30E-01	1.61E-01	6.46E-02	2.70E-01	3.34E-01	2.67E-03	1.11E-02	1.38E-02
129-00-0	5.18E-05	5.94E-04	6.46E-04	4.94E-05	5.67E-04	6.16E-04	1.03E-04	1.18E-03	1.28E-03	4.25E-06	4.88E-05	5.30E-05
132-64-9	2.00E-04	2.34E-03	2.54E-03	1.91E-04	2.23E-03	2.42E-03	3.98E-04	4.64E-03	5.04E-03	1.64E-05	1.92E-04	2.08E-04
1330-20-7	5.35E+00	2.26E+01	2.79E+01	5.11E+00	2.15E+01	2.66E+01	1.06E+01	4.48E+01	5.54E+01	4.39E-01	1.85E+00	2.29E+00
135-98-8	1.77E+00	7.76E+00	9.52E+00	1.68E+00	7.40E+00	9.08E+00	3.50E+00	1.54E+01	1.89E+01	1.45E-01	6.36E-01	7.81E-01
1653-40-3	8.43E+00	3.69E+01	4.53E+01	8.04E+00	3.52E+01	4.32E+01	1.67E+01	7.32E+01	8.99E+01	6.92E-01	3.02E+00	3.72E+00
179601-23-1	4.08E+00	1.71E+01	2.12E+01	3.89E+00	1.63E+01	2.02E+01	8.10E+00	3.39E+01	4.20E+01	3.35E-01	1.40E+00	1.74E+00
1985-57-5	3.27E+00	1.38E+01	1.71E+01	3.12E+00	1.32E+01	1.63E+01	6.50E+00	2.74E+01	3.39E+01	2.69E-01	1.13E+00	1.40E+00
2049-95-8	1.01E+01	4.24E+01	5.25E+01	9.62E+00	4.05E+01	5.01E+01	2.00E+01	8.42E+01	1.04E+02	8.27E-01	3.48E+00	4.31E+00
22531-20-0	1.87E+00	8.02E+00	9.89E+00	1.78E+00	7.65E+00	9.44E+00	3.71E+00	1.59E+01	1.96E+01	1.53E-01	6.58E-01	8.12E-01
22975-62-8	2.92E+00	1.23E+01	1.53E+01	2.79E+00	1.18E+01	1.46E+01	5.80E+00	2.45E+01	3.03E+01	2.40E-01	1.01E+00	1.25E+00
26952-21-6	3.09E+00	1.35E+01	1.66E+01	2.95E+00	1.29E+01	1.58E+01	6.13E+00	2.68E+01	3.30E+01	2.54E-01	1.11E+00	1.36E+00
2719-52-0	6.65E+00	2.80E+01	3.47E+01	6.34E+00	2.67E+01	3.31E+01	1.32E+01	5.56E+01	6.88E+01	5.46E-01	2.30E+00	2.84E+00
2958-76-1	7.57E+01	3.16E+02	3.91E+02	7.22E+01	3.01E+02	3.73E+02	1.50E+02	6.26E+02	7.77E+02	6.21E+00	2.59E+01	3.21E+01
3875-51-2	3.81E+01	1.59E+02	1.97E+02	3.64E+01	1.51E+02	1.88E+02	7.57E+01	3.15E+02	3.91E+02	3.13E+00	1.30E+01	1.62E+01
4218-48-8	2.85E+00	1.20E+01	1.49E+01	2.72E+00	1.15E+01	1.42E+01	5.67E+00	2.39E+01	2.96E+01	2.34E-01	9.88E-01	1.22E+00
496-10-6	1.90E+02	7.94E+02	9.84E+02	1.82E+02	7.57E+02	9.39E+02	3.78E+02	1.58E+03	1.95E+03	1.56E+01	6.51E+01	8.07E+01
527-53-7	8.58E+00	3.61E+01	4.47E+01	8.18E+00	3.45E+01	4.26E+01	1.70E+01	7.17E+01	8.87E+01	7.04E-01	2.96E+00	3.67E+00
5364-83-0	2.53E+02	1.06E+03	1.31E+03	2.42E+02	1.01E+03	1.25E+03	5.03E+02	2.10E+03	2.60E+03	2.08E+01	8.67E+01	1.07E+02
54340-86-2	1.31E+00	5.55E+00	6.86E+00	1.25E+00	5.30E+00	6.55E+00	2.60E+00	1.10E+01	1.36E+01	1.07E-01	4.56E-01	5.63E-01
5557-93-7	4.51E+00	1.92E+01	2.37E+01	4.30E+00	1.83E+01	2.26E+01	8.96E+00	3.82E+01	4.71E+01	3.70E-01	1.58E+00	1.95E+00
591-78-6	2.08E-03	8.84E-03	1.09E-02	1.98E-03	8.43E-03	1.04E-02	4.12E-03	1.75E-02	2.17E-02	1.70E-04	7.25E-04	8.96E-04
67-64-1	1.06E+00	4.52E+00	5.58E+00	1.01E+00	4.31E+00	5.32E+00	2.10E+00	8.97E+00	1.11E+01	8.69E-02	3.71E-01	4.58E-01
67-66-3	9.29E+01	3.88E+02	4.80E+02	8.86E+01	3.70E+02	4.58E+02	1.84E+02	7.69E+02	9.53E+02	7.62E+00	3.18E+01	3.94E+01
71-43-2	2.28E+00	9.51E+00	1.18E+01	2.17E+00	9.08E+00	1.12E+01	4.52E+00	1.89E+01	2.34E+01	1.87E-01	7.81E-01	9.68E-01
71-55-6	6.24E+01	2.60E+02	3.23E+02	5.95E+01	2.48E+02	3.08E+02	1.24E+02	5.16E+02	6.40E+02	5.12E+00	2.14E+01	2.65E+01
75-09-2	2.90E+00	1.21E+01	1.50E+01	2.76E+00	1.15E+01	1.43E+01	5.75E+00	2.40E+01	2.98E+01	2.38E-01	9.93E-01	1.23E+00
75-34-3	2.77E+00	1.16E+01	1.43E+01	2.64E+00	1.10E+01	1.37E+01	5.50E+00	2.30E+01	2.85E+01	2.27E-01	9.49E-01	1.18E+00
75-35-4	3.01E-02	1.25E-01	1.55E-01	2.87E-02	1.20E-01	1.48E-01	5.97E-02	2.49E-01	3.08E-01	2.47E-03	1.03E-02	1.28E-02
75-69-4	1.73E+00	7.19E+00	8.92E+00	1.65E+00	6.86E+00	8.51E+00	3.43E+00	1.43E+01	1.77E+01	1.42E-01	5.90E-01	7.32E-01
76-13-1	2.81E+01	1.17E+02	1.45E+02	2.68E+01	1.12E+02	1.39E+02	5.57E+01	2.33E+02	2.88E+02	2.30E+00	9.61E+00	1.19E+01
78-93-3	2.91E-01	1.24E+00	1.53E+00	2.77E-01	1.18E+00	1.46E+00	5.77E-01	2.46E+00	3.04E+00	2.39E-02	1.02E-01	1.26E-01
79-34-5	6.75E-02	2.86E-01	3.54E-01	6.44E-02	2.73E-01	3.37E-01	1.34E-01	5.68E-01	7.02E-01	5.54E-03	2.35E-02	2.90E-02
83-32-9	6.65E-03	3.63E-02	4.29E-02	6.34E-03	3.46E-02	4.09E-02	1.32E-02	7.20E-02	8.52E-02	5.45E-04	2.98E-03	3.52E-03
85-01-8	3.37E-01	2.67E+00	3.01E+00	3.22E-01	2.55E+00	2.87E+00	6.69E-01	5.30E+00	5.97E+00	2.77E-02	2.19E-01	2.47E-01
86-73-7	1.15E-02	7.89E-02	9.03E-02	1.09E-02	7.52E-02	8.62E-02	2.27E-02	1.57E-01	1.79E-01	9.40E-04	6.47E-03	7.41E-03
87-61-6	2.69E-04	1.19E-03	1.46E-03	2.56E-04	1.14E-03	1.39E-03	5.33E-04	2.37E-03	2.90E-03	2.21E-05	9.79E-05	1.20E-04
91-17-8	1.29E+01	1.15E-06	1.29E+01	1.23E+01	1.10E-06	1.23E+01	2.56E+01	2.28E-06	2.56E+01	1.06E+00	9.44E-08	1.06E+00
91-20-3	1.75E+00	7.85E+00	9.60E+00	1.67E+00	7.48E+00	9.16E+00	3.48E+00	1.56E+01	1.91E+01	1.44E-01	6.44E-01	7.88E-01
91-57-6	5.72E-01	2.62E+00	3.19E+00	5.46E-01	2.50E+00	3.04E+00	1.14E+00	5.19E+00	6.33E+00	4.70E-02	2.15E-01	2.62E-01
941-60-6	6.80E-01	2.95E+00	3.63E+00	6.49E-01	2.81E+00	3.46E+00	1.35E+00	5.85E+00	7.20E+00	5.58E-02	2.42E-01	2.98E-01
95-47-6	1.93E+00	8.09E+00	1.00E+01	1.84E+00	7.72E+00	9.56E+00	3.83E+00	1.61E+01	1.99E+01	1.58E-01	6.64E-01	8.22E-01
95-50-1	1.16E-01	4.94E-01	6.10E-01	1.11E-01	4.71E-01	5.82E-01	2.31E-01	9.80E-01	1.21E+00	9.56E-03	4.05E-02	5.01E-02
95-63-6	2.38E+00	1.01E+01	1.24E+01	2.27E+00	9.60E+00	1.19E+01	4.72E+00	2.00E+01	2.47E+01	1.95E-01	8.26E-01	1.02E+00
96-12-8	2.14E-03	9.25E-03	1.14E-02	2.04E-03	8.82E-03	1.09E-02	4.25E-03	1.84E-02	2.26E-02	1.76E-04	7.59E-04	9.35E-04
98-06-6	4.28E-03	1.80E-02	2.22E-02	4.08E-03	1.71E-02	2.12E-02	8.50E-03	3.57E-02	4.42E-02	3.51E-04	1.47E-03	1.83E-03
98-82-8	6.82E+01	2.84E+02	3.52E+02	6.51E+01	2.71E+02	3.36E+02	1.35E+02	5.64E+02	6.99E+02	5.60E+00	2.33E+01	2.89E+01
Pit F												
100-41-4	-	-	-	-	-	-	-	-	-	-	-	-
100-42-5	-	-	-	-	-	-	-	-	-	-	-	-
135-98-8	-	-	-	-	-	-	-	-	-	-	-	-
67-64-1	-	-	-	-	-	-	-	-	-	-	-	-
75-15-0	-	-	-	-	-	-	-	-	-	-	-	-
78-93-3	-	-	-	-	-	-	-	-	-	-	-	-
85-01-8	-	-	-	-	-	-	-	-	-	-	-	-
91-20-3	-	-	-	-	-	-	-	-	-	-	-	-
95-63-6	-	-	-	-	-	-	-	-	-	-	-	-
Totals	**1032.62**	**4262.23**	**5294.85**	**984.96**	**4065.51**	**5050.47**	**2049.35**	**8458.89**	**10508.24**	**84.73**	**349.72**	**434.45**

ASCON AQ/HRA - Emissions Inventory
Vehicle Disturbance VOC Emissions from Temporary Pit F Haul Road

Emissions Equation

Emissions (lb/time) = t x VF x A_S

Where
t = time conversion factor (e.g., hours/day, days/year)
VF = volatility factor output from EMSOFT model (mg/cm^2-day)
A_S = surface area of volatilization (cm^2)

General Assumptions

Parameter	Value	Units	References
Workday Remediation Hours per Day (Typical Workday)	9	hours	Hours of Operation 7AM-4PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).
Remediation Hours per Day (Maximum Workday)	11	hours	Hours of Operation 7AM-6PM (stabilized and unstabilized areas). Source: Project Navigator, Ltd., (2013).

Vehicle Disturbance Volatilization Assumptions

Parameter	Value	Units	References
Active/Unstablilized Area Emission Rate	Varies by Chemical	mass/area-time	Active/Unstablized area emissions from vehicles traveling over new roadways.
Vehicle Area Disturbance (New Road for Pit F Area)	4.70E+06	cm2	Estimated vehicle area disturbance caused by vehicles traveling over contaminated soil, converted to units of cm2.

Phases with New Vehicle Disturbance Areas (Contaminated Soil)

Phase - Subphase	Phase / Subphase No.	Days
Pit F - Slurry Trench Excavation (waste in bins)	2.4	101

Emissions Calculations

Maximum Hourly

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}HR} \times A_{S,U}$ *(Emissions during the first hour from vehicle travel causing disturbance of contaminated soil.)*
Inactive/Stabilized Area Emissions (SAE) = (1 - MR) × $VF_{1\text{-}DAY} \times A_S$ *(No stablized area since vehicles would be traveling over the roadway during the remediation action.)*
Total Emissions = AE + SAE

		Active Area Emission Rates						Emissions (lbs/hour)		
								Phase / Subphase No. 2.4		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	$VF_{101\text{-}DAY}$ [101 day avg] (mg/cm^2-day)	$VF_{101\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/hour)	Inactive Area Emissions (lbs/hour)	Total Emissions (lbs/hour)
Haul Road Traverses over Surface Layer of "Non-Pit F" Areas										
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	1.92E-02	1.77E-09	2.60E-01	-	2.60E-01
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	4.95E-03	4.55E-10	6.59E-02	-	6.59E-02
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	6.01E-04	5.52E-11	5.36E-03	-	5.36E-03
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	1.98E-03	1.82E-10	2.68E-02	-	2.68E-02
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	2.80E-04	2.57E-11	3.76E-03	-	3.76E-03
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	5.57E-04	5.12E-11	7.53E-03	-	7.53E-03
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	6.12E-04	5.62E-11	8.11E-03	-	8.11E-03
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	1.41E-04	1.29E-11	1.87E-03	-	1.87E-03
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	3.59E-06	3.30E-13	4.78E-05	-	4.78E-05
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	1.60E-02	1.47E-09	2.17E-01	-	2.17E-01
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	3.53E-02	3.25E-09	4.77E-01	-	4.77E-01
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	5.49E-04	5.05E-11	7.32E-03	-	7.32E-03
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	1.92E-03	1.76E-10	2.60E-02	-	2.60E-02
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	8.27E-03	7.60E-10	1.12E-01	-	1.12E-01
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	7.03E-06	6.46E-13	3.28E-05	-	3.28E-05
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	1.81E-07	1.66E-14	2.27E-06	-	2.27E-06
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	2.30E-05	2.12E-12	3.13E-04	-	3.13E-04
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	3.65E-07	3.35E-14	4.98E-07	-	4.98E-07

132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	1.56E-06	1.43E-13	1.93E-06	-	1.93E-06
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	3.84E-03	3.53E-10	5.14E-02	-	5.14E-02
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	1.34E-03	1.24E-10	1.70E-02	-	1.70E-02
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	6.38E-03	5.86E-10	8.10E-02	-	8.10E-02
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	2.90E-03	2.67E-10	3.92E-02	-	3.92E-02
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	2.35E-03	2.16E-10	3.15E-02	-	3.15E-02
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	7.22E-03	6.63E-10	9.69E-02	-	9.69E-02
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	1.38E-03	1.26E-10	1.80E-02	-	1.80E-02
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	2.11E-03	1.93E-10	2.81E-02	-	2.81E-02
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	2.34E-03	2.15E-10	2.97E-02	-	2.97E-02
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	4.77E-03	4.38E-10	6.39E-02	-	6.39E-02
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	5.35E-02	4.92E-09	7.27E-01	-	7.27E-01
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	2.59E-02	2.38E-09	3.66E-01	-	3.66E-01
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	2.05E-03	1.88E-10	2.74E-02	-	2.74E-02
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	1.34E-01	1.23E-08	1.83E+00	-	1.83E+00
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	6.15E-03	5.65E-10	8.24E-02	-	8.24E-02
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	1.78E-01	1.64E-08	2.44E+00	-	2.44E+00
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	9.48E-04	8.71E-11	1.26E-02	-	1.26E-02
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	3.29E-03	3.02E-10	4.34E-02	-	4.34E-02
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	1.51E-06	1.39E-13	2.00E-05	-	2.00E-05
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	7.74E-04	7.11E-11	1.02E-02	-	1.02E-02
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	6.57E-02	6.04E-09	8.92E-01	-	8.92E-01
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	1.61E-03	1.48E-10	2.19E-02	-	2.19E-02
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	4.41E-02	4.05E-09	6.00E-01	-	6.00E-01
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	2.05E-03	1.88E-10	2.78E-02	-	2.78E-02
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	1.96E-03	1.80E-10	2.66E-02	-	2.66E-02
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	2.11E-05	1.93E-12	2.89E-04	-	2.89E-04
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	1.22E-03	1.12E-10	1.66E-02	-	1.66E-02
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	1.99E-02	1.83E-09	2.70E-01	-	2.70E-01
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	2.13E-04	1.95E-11	2.79E-03	-	2.79E-03
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	4.89E-05	4.49E-12	6.48E-04	-	6.48E-04
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	6.98E-06	6.41E-13	6.39E-05	-	6.39E-05
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	6.94E-04	6.38E-11	3.24E-03	-	3.24E-03
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	1.78E-05	1.64E-12	1.10E-04	-	1.10E-04
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	2.08E-07	1.91E-14	2.58E-06	-	2.58E-06
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	1.96E-09	1.80E-16	1.24E-01	-	1.24E-01
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	1.37E-03	1.26E-10	1.68E-02	-	1.68E-02
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	4.61E-04	4.24E-11	5.50E-03	-	5.50E-03
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	5.08E-04	4.67E-11	6.54E-03	-	6.54E-03
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	1.37E-03	1.26E-10	1.85E-02	-	1.85E-02
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	8.43E-05	7.74E-12	1.12E-03	-	1.12E-03
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	1.72E-03	1.58E-10	2.29E-02	-	2.29E-02
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	1.59E-06	1.46E-13	2.06E-05	-	2.06E-05
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	3.05E-06	2.81E-13	4.11E-05	-	4.11E-05
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	4.68E-02	4.30E-09	6.55E-01	-	6.55E-01
	Totals							**9.92**	**0.00**	**9.92**

Annual

Active/Unstabilized Area Emissions (AE) = $VF_{1\text{-}DAY} \times A_{S,U}$ *(Emissions during the first day from vehicle travel causing disturbance of contaminated soil, multiplied by the number of days during the remediation action.)*

Inactive/Stabilized Area Emissions (SAE) = $(1 - MR) \times VF_{1\text{-}DAY} \times A_S$ *(No stablized area since vehicles would be traveling over the roadway during the remediation action.)*

Total Emissions = AE + SAE

		Active Area Emission Rates						Emissions (lbs/year)		
								Phase / Subphase No. 2.4		
CAS No.	Chemical	$VF_{1\text{-}HR}$ [0.1 day avg] (mg/cm^2-day)	$VF_{1\text{-}HR}$ [Workday] (lbs/cm^2-hour)	$VF_{1\text{-}DAY}$ [1 day avg] (mg/cm^2-day)	$VF_{1\text{-}DAY}$ (lbs/cm^2-hour)	$VF_{101\text{-}DAY}$ [101 day avg] (mg/cm^2-day)	$VF_{101\text{-}DAY}$ (lbs/cm^2-hour)	Active Area Emissions (lbs/year)	Inactive Area Emissions (lbs/year)	Total Emissions (lbs/year)
Haul Road Traverses over Surface Layer of "Non-Pit F" Areas										
100-41-4	Ethylbenzene	6.02E-01	5.53E-08	1.93E-01	1.77E-08	1.92E-02	1.77E-09	2.01E+01	-	2.01E+01
100-42-5	Styrene	1.53E-01	1.40E-08	4.94E-02	4.53E-09	4.95E-03	4.55E-10	5.18E+00	-	5.18E+00
10042-59-8	2-PROPYL-1-HEPTANOL	1.24E-02	1.14E-09	5.26E-03	4.83E-10	6.01E-04	5.52E-11	6.29E-01	-	6.29E-01
103-65-1	n-Propylbenzene	6.20E-02	5.69E-09	1.99E-02	1.83E-09	1.98E-03	1.82E-10	2.08E+00	-	2.08E+00
104-51-8	n-Butylbenzene	8.70E-03	7.99E-10	2.80E-03	2.57E-10	2.80E-04	2.57E-11	2.93E-01	-	2.93E-01
106-42-3	P-XYLENE	1.74E-02	1.60E-09	5.58E-03	5.13E-10	5.57E-04	5.12E-11	5.83E-01	-	5.83E-01
106-43-4	4-Chlorotoluene	1.88E-02	1.73E-09	6.10E-03	5.60E-10	6.12E-04	5.62E-11	6.41E-01	-	6.41E-01
106-46-7	1,4-Dichlorobenzene	4.34E-03	3.99E-10	1.40E-03	1.29E-10	1.41E-04	1.29E-11	1.47E-01	-	1.47E-01
106-93-4	1,2-Dibromoethane	1.11E-04	1.02E-11	3.58E-05	3.29E-12	3.59E-06	3.30E-13	3.76E-03	-	3.76E-03
107-06-2	1,2-Dichloroethane	5.02E-01	4.61E-08	1.61E-01	1.47E-08	1.60E-02	1.47E-09	1.68E+01	-	1.68E+01
108-38-3	M-XYLENE	1.10E+00	1.01E-07	3.54E-01	3.25E-08	3.53E-02	3.25E-09	3.70E+01	-	3.70E+01
108-67-8	1,3,5-Trimethylbenzene	1.70E-02	1.56E-09	5.48E-03	5.04E-10	5.49E-04	5.05E-11	5.75E-01	-	5.75E-01
108-88-3	Toluene	6.02E-02	5.53E-09	1.92E-02	1.77E-09	1.92E-03	1.76E-10	2.01E+00	-	2.01E+00
108-90-7	Chlorobenzene	2.58E-01	2.37E-08	8.28E-02	7.61E-09	8.27E-03	7.60E-10	8.66E+00	-	8.66E+00
120-12-7	Anthracene	7.59E-05	6.97E-12	4.60E-05	4.22E-12	7.03E-06	6.46E-13	7.36E-03	-	7.36E-03
120-82-1	1,2,4-Trichlorobenzene	5.26E-06	4.83E-13	1.77E-06	1.63E-13	1.81E-07	1.66E-14	1.89E-04	-	1.89E-04
127-18-4	Tetrachloroethene	7.25E-04	6.66E-11	2.31E-04	2.12E-11	2.30E-05	2.12E-12	2.41E-02	-	2.41E-02
129-00-0	Pyrene	1.15E-06	1.06E-13	1.01E-06	9.29E-14	3.65E-07	3.35E-14	3.82E-04	-	3.82E-04
132-64-9	Dibenzofuran	4.46E-06	4.10E-13	3.98E-06	3.66E-13	1.56E-06	1.43E-13	1.63E-03	-	1.63E-03
1330-20-7	XYLENES (TOTAL)	1.19E-01	1.09E-08	3.84E-02	3.53E-09	3.84E-03	3.53E-10	4.02E+00	-	4.02E+00
135-98-8	(1-METHYLPROPYL)BENZENE	3.93E-02	3.61E-09	1.32E-02	1.21E-09	1.34E-03	1.24E-10	1.41E+00	-	1.41E+00
1653-40-3	6-METHYL-1,1-HEPTANOL	1.88E-01	1.72E-08	6.27E-02	5.76E-09	6.38E-03	5.86E-10	6.67E+00	-	6.67E+00
179601-23-1	m,p-Xylenes	9.08E-02	8.34E-09	2.91E-02	2.67E-09	2.90E-03	2.67E-10	3.04E+00	-	3.04E+00
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	7.29E-02	6.69E-09	2.35E-02	2.16E-09	2.35E-03	2.16E-10	2.46E+00	-	2.46E+00
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.24E-01	2.06E-08	7.22E-02	6.63E-09	7.22E-03	6.63E-10	7.56E+00	-	7.56E+00
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.16E-02	3.82E-09	1.37E-02	1.25E-09	1.38E-03	1.26E-10	1.44E+00	-	1.44E+00
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.50E-02	5.97E-09	2.10E-02	1.93E-09	2.11E-03	1.93E-10	2.20E+00	-	2.20E+00
26952-21-6	ISOOCTANOL	6.88E-02	6.32E-09	2.30E-02	2.11E-09	2.34E-03	2.15E-10	2.45E+00	-	2.45E+00
2719-52-0	(1-METHYLBUTYL)BENZENE	1.48E-01	1.36E-08	4.77E-02	4.38E-09	4.77E-03	4.38E-10	4.99E+00	-	4.99E+00
2958-76-1	2-METHYLDECAHYDRONAPHTHALENE	1.68E+00	1.55E-07	5.37E-01	4.93E-08	5.35E-02	4.92E-09	5.60E+01	-	5.60E+01
3875-51-2	1-METHYLETHYLCYCLOPENTANE	8.49E-01	7.80E-08	2.70E-01	2.48E-08	2.59E-02	2.38E-09	2.71E+01	-	2.71E+01
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	6.35E-02	5.84E-09	2.05E-02	1.88E-09	2.05E-03	1.88E-10	2.15E+00	-	2.15E+00
496-10-6	OCTAHYDROINDENE	4.24E+00	3.89E-07	1.35E+00	1.24E-07	1.34E-01	1.23E-08	1.40E+02	-	1.40E+02
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.91E-01	1.75E-08	6.15E-02	5.65E-09	6.15E-03	5.65E-10	6.44E+00	-	6.44E+00
5364-83-0	(1-PROPENYL)CYCLOHEXANE	5.64E+00	5.18E-07	1.80E+00	1.65E-07	1.78E-01	1.64E-08	1.87E+02	-	1.87E+02
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.91E-02	2.68E-09	9.45E-03	8.68E-10	9.48E-04	8.71E-11	9.93E-01	-	9.93E-01
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.00E-01	9.23E-09	3.27E-02	3.01E-09	3.29E-03	3.02E-10	3.44E+00	-	3.44E+00
591-78-6	2-Hexanone	4.62E-05	4.25E-12	1.50E-05	1.38E-12	1.51E-06	1.39E-13	1.58E-03	-	1.58E-03
67-64-1	2-PROPANONE	2.36E-02	2.17E-09	7.69E-03	7.07E-10	7.74E-04	7.11E-11	8.10E-01	-	8.10E-01
67-66-3	Chloroform	2.07E+00	1.90E-07	6.59E-01	6.06E-08	6.57E-02	6.04E-09	6.88E+01	-	6.88E+01
71-43-2	Benzene	5.07E-02	4.66E-09	1.62E-02	1.49E-09	1.61E-03	1.48E-10	1.69E+00	-	1.69E+00
71-55-6	1,1,1-Trichloroethane	1.39E+00	1.28E-07	4.43E-01	4.07E-08	4.41E-02	4.05E-09	4.62E+01	-	4.62E+01
75-09-2	Methylene Chloride	6.45E-02	5.92E-09	2.06E-02	1.89E-09	2.05E-03	1.88E-10	2.15E+00	-	2.15E+00
75-34-3	1,1-Dichloroethane	6.17E-02	5.67E-09	1.97E-02	1.81E-09	1.96E-03	1.80E-10	2.05E+00	-	2.05E+00
75-35-4	1,1-Dichloroethene	6.70E-04	6.15E-11	2.13E-04	1.96E-11	2.11E-05	1.93E-12	2.20E-02	-	2.20E-02
75-69-4	Trichlorofluoromethane	3.84E-02	3.53E-09	1.22E-02	1.12E-09	1.22E-03	1.12E-10	1.27E+00	-	1.27E+00

76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.24E-01	5.74E-08	1.99E-01	1.83E-08	1.99E-02	1.83E-09	2.08E+01	-	2.08E+01
78-93-3	2-Butanone	6.47E-03	5.94E-10	2.11E-03	1.94E-10	2.13E-04	1.95E-11	2.23E-01	-	2.23E-01
79-34-5	1,1,2,2-Tetrachloroethane	1.50E-03	1.38E-10	4.87E-04	4.47E-11	4.89E-05	4.49E-12	5.12E-02	-	5.12E-02
83-32-9	Acenaphthene	1.48E-04	1.36E-11	6.17E-05	5.67E-12	6.98E-06	6.41E-13	7.31E-03	-	7.31E-03
85-01-8	Phenanthrene	7.51E-03	6.90E-10	4.54E-03	4.17E-10	6.94E-04	6.38E-11	7.26E-01	-	7.26E-01
86-73-7	Fluorene	2.55E-04	2.34E-11	1.34E-04	1.23E-11	1.78E-05	1.64E-12	1.86E-02	-	1.86E-02
87-61-6	1,2,3-Trichlorobenzene	5.98E-06	5.50E-13	2.03E-06	1.86E-13	2.08E-07	1.91E-14	2.17E-04	-	2.17E-04
91-17-8	DECAHYDRONAPHTHALENE	2.87E-01	2.63E-08	1.96E-09	1.80E-16	1.96E-09	1.80E-16	2.05E-06	-	2.05E-06
91-20-3	Naphthalene	3.90E-02	3.58E-09	1.34E-02	1.23E-09	1.37E-03	1.26E-10	1.44E+00	-	1.44E+00
91-57-6	2-Methylnaphthalene	1.27E-02	1.17E-09	4.45E-03	4.09E-10	4.61E-04	4.24E-11	4.83E-01	-	4.83E-01
941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.51E-02	1.39E-09	5.02E-03	4.61E-10	5.08E-04	4.67E-11	5.32E-01	-	5.32E-01
95-47-6	o-Xylene	4.30E-02	3.95E-09	1.38E-02	1.26E-09	1.37E-03	1.26E-10	1.44E+00	-	1.44E+00
95-50-1	1,2-Dichlorobenzene	2.59E-03	2.38E-10	8.40E-04	7.72E-11	8.43E-05	7.74E-12	8.82E-02	-	8.82E-02
95-63-6	1,2,4-Trimethylbenzene	5.30E-02	4.87E-09	1.71E-02	1.57E-09	1.72E-03	1.58E-10	1.80E+00	-	1.80E+00
96-12-8	1,2-Dibromo-3-Chloropropane	4.76E-05	4.37E-12	1.57E-05	1.45E-12	1.59E-06	1.46E-13	1.67E-03	-	1.67E-03
98-06-6	tert-Butylbenzene	9.53E-05	8.75E-12	3.06E-05	2.81E-12	3.05E-06	2.81E-13	3.20E-03	-	3.20E-03
98-82-8	1-METHYLETHYLBENZENE	1.52E+00	1.39E-07	4.83E-01	4.44E-08	4.68E-02	4.30E-09	4.89E+01	-	4.89E+01
	Totals							**753.45**	**0.00**	**753.45**

ASCON Health Risk Assessment

Vapor Flux Model: Summary of Soil Parameters, Physical Constants, and Layer Properties (Groundwater)

Table 46

Soil Parameters: Loam	Porosity (dimensionless)	0.399	
	Water Content (dimensionless)	0.148	
	Air Content (dimensionless)	0.251	
	Fracture Porosity	0	(non-fractured)
Physical Constants	Average Steady Recharge Rate[a] (m/s)	8.55E-10	
	Sub-surface Layer Thickness[b] (ft)	21.84	(Groundwater Well No. B4A)
		10.55	(Groundwater Well No. AW8)
		16.97	(Groundwater Well No. B7)

[a] *Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California (COOP ID 046175), NCDC 1981-2010 Monthly Normals. Average steady recharge rate is based on 10% of the annual average precipitation (10.62 inches).*

[b] *Depth measured as of March 19, 2012.*

Sources: Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site, May 1, 2012; USEPA, User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings, (2004); USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).

ASCON Health Risk Assessment
Vapor Flux Model: Summary of Groundwater VOC Emission Rates - Alternative 4 and 6
Table 47

Compound	CAS Number	Groundwater Well No.	VOC Emission Rates ($\mu g/m^2$-s)
1,2,4-Trimethylbenzene	95-63-6	B4A	6.52E-06
1,4-Dichlorobenzene	106-46-7	AW8	5.30E-06
Benzene	71-43-2	B7	3.78E-04
Ethylbenzene	100-41-4	B7	7.70E-03
Isopropylbenzene	98-82-8	B7	1.40E+00
m,p-Xylenes	179601-23-1	B4A	1.62E-05
Naphthalene	91-20-3	B7	3.74E-05
n-Propylbenzene	103-65-1	B7	4.01E-04
sec-Butylbenzene	135-98-8	B7	1.37E-05
Toluene	108-88-3	B4A	7.14E-06

Source: PCR Services Corporation, 2013

Note: See worksheets appended to Table 48 on the following pages for calculation details.

ASCON Health Risk Assessment
Summary of Estimated VOC Emissions from Groundwater Monitoring Wells – Alternative 4 and 6
Table 48

Compound	CAS Number	Groundwater Well No.	VOC Emissions	
			Pounds per Hour	Pounds per Year
1,2,4-Trimethylbenzene	95-63-6	B4A	7.76E-08	6.80E-04
1,4-Dichlorobenzene	106-46-7	AW8	6.30E-08	5.52E-04
Benzene	71-43-2	B7	2.25E-07	1.97E-03
Ethylbenzene	100-41-4	B7	4.58E-06	4.02E-02
Isopropylbenzene	98-82-8	B7	8.33E-04	7.30E+00
m,p-Xylenes	179601-23-1	B4A	1.93E-07	1.69E-03
Naphthalene	91-20-3	B7	2.23E-08	1.95E-04
n-Propylbenzene	103-65-1	B7	2.39E-07	2.09E-03
sec-Butylbenzene	135-98-8	B7	8.17E-09	7.16E-05
Toluene	108-88-3	B4A	8.50E-08	7.45E-04

Source: PCR Services Corporation, 2013

Note: See worksheets on the following pages for calculation details.

ASCON HRA - Emissions Inventory
Groundwater Volatilization Calculation Assumptions

General Assumptions

Parameter	Value	Units	References
Depth to Groundwater - Well No. AW8	10.55	feet below top of casing (TOC)	Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site, May 1, 2012. Depth measured as of March 19, 2012.
Depth to Groundwater - Well No. B4A	21.84	feet below TOC	Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site, May 1, 2012. Depth measured as of March 19, 2012.
Depth to Groundwater - Well No. B7	16.97	feet below TOC	Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site, May 1, 2012. Depth measured as of March 19, 2012.
Matrix Porosity	0.399	m^3-void space/m^3-soil (dimensionless)	USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings*, Table 11 – Guidance for Selection of Soil Type, (2004) 37; USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).
Volumetric water content of the matrix	0.148	m^3-water space/m^3-soil (dimensionless)	USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings*, Table 11 – Guidance for Selection of Soil Type, (2004) 37; USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).
Volumetric air content of the matrix	0.251	m^3-air space/m^3-soil (dimensionless)	USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings*, Table 11 – Guidance for Selection of Soil Type, (2004) 37; USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).
Average Steady Recharge Rate	8.55E-10	m/s	Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California (COOP ID 046175), NCDC 1981-2010 Monthly Normals. Available: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6175. Accessed 12/3/2012. Average steady recharge rate is based on 10% of the annual average precipitation (10.62 inches).
Flux Area Diameter	143.06	ft	Measured as the average of the distance from B-4A to adjacent wells (AW-5, GP-4, P-8).
Flux Area Diameter	43.60	m	Measured as the average of the distance from B-4A to adjacent wells (AW-5, GP-4, P-8).
Flux Area	1500	m^2	Based on a flux area diameter of 143.06 feet (43.6 meters), rounded to the nearest hundreds. Analysis uses the same flux area for each of the wells.

The ASCON Landfill RAP EIR
Health Risk Assessment
Calculation of VOC Emissions from Groundwater

VOC Concentration

Equation: $C_{SG} = C_{GW} \times K_{H,S} \times C_f$ (Source: DTSC, *Santa Susana Field Laboratory, Standardized Risk Assessment Methodology Work Plan - Revision 2* , September 2005. Equation 17.)

Where:
C_{SG} = Concentration in Soil Gas (µg/m^3)
C_{GW} = Concentration in Groundwater (µg/L)
$K_{H,S}$ = Henry's Law at Average Soil Temperature (dimensionless)
C_f = Conversion factor = 1,000 L/m^3

1	3	4	5	6	7	8
CAS Number	**Chemical**	**VOC Concentration in Soil Gas C_{SG} (µg/m^3)**	**VOC Concentration in Groundwater[A] C_{GW} (µg/L)**	**Henry's Law at Average Soil Temperature[B] $K_{H,S}$ @ AST (dimensionless)**	**Depth to Groundwater[C] (feet below top of casing [TOC])**	**Groundwater Well No.**
95-63-6	1,2,4-Trimethylbenzene	1.20E+02	0.71	1.68E-01	21.84	B4A
106-46-7	1,4-Dichlorobenzene	4.13E+01	0.62	6.66E-02	10.55	AW8
71-43-2	Benzene	3.62E+03	21	1.73E-01	16.97	B7
100-41-4	Ethylbenzene	8.65E+04	380	2.28E-01	16.97	B7
98-82-8	Isopropylbenzene	1.78E+07	580	3.06E+01	16.97	B7
179601-23-1	m,p-Xylenes	2.54E+02	1.2	2.11E-01	21.84	B4A
91-20-3	Naphthalene	8.71E+02	69	1.26E-02	16.97	B7
103-65-1	n-Propylbenzene	5.61E+03	19	2.96E-01	16.97	B7
135-98-8	sec-Butylbenzene	3.52E+02	30	1.17E-02	16.97	B7
108-88-3	Toluene	8.95E+01	0.45	1.99E-01	21.84	B4A

Source:
A. Geosyntec Consultants, Interim Groundwater Monitoring Report - March 2012 ASCON Landfill Site, May 1, 2012.
B. USEPA, EMSOFT User's Guide, Equation 23, Page 25, September 2002.
C. Depth measured as of March 19, 2012.

The ASCON Landfill RAP EIR
Health Risk Assessment
Calculation of VOC Emissions from Groundwater

Effective Diffusion Coefficient

Equation:

$$D_{eff} = \left[\theta_W \left(\frac{\theta_W{}^{7/3}}{n^2}\right) \times \frac{D'_W}{K_{H,S}}\right] + \left\{\left[\varphi_f + \theta_V \left(\frac{\theta_V{}^{7/3}}{n^2}\right)\right] \times D'_A\right\}$$

(Source: DTSC, *Santa Susana Field Laboratory, Standardized Risk Assessment Methodology Work Plan - Revision 2* , September 2005. Equation 14.)

Where:

D_{eff} =	Effective diffusion coefficient (m^2/s)
D'_A =	Diffusion coefficient in air (m^2/s)
D'_W =	Diffusion coefficient in water (m^2/s)
$K_{H,S}$ =	Henry's Law at Average Soil Temperature (dimensionless)
n =	Matrix porosity (m^3-void space/m^3-soil)
θ_W =	Volumetric water content of the matrix (m^3-water/m^3-soil)
θ_V =	Volumetric air content of the matrix (m^3-water/m^3-soil)
ϕ_f =	Fracture porosity (m^3-fractures/m^3-soil) = 0 (non-fractured for this assessment)

1	3	4	5	6	7	8	9	10	11
		Effective Diffusion Coefficient	**Diffusion coefficient in air**	**Diffusion coefficient in water**	**Henry's Law at Average Soil Temperature**	**Matrix porosity[A,B]**	**Volumetric water content of the matrix[A,B]**	**Volumetric air content of the matrix[A,B]**	
CAS Number	**Chemical**	**D_{eff} (m^2/s)**	**D'_A (m^2/s)**	**D'_W (m^2/s)**	**$K_{H,S}$ (dimensionless)**	**n (m^3-void space/m^3-soil)**	**θ_W (m^3-water/m^3-soil)**	**θ_V (m^3-air/m^3-soil)**	**Groundwater Well No.**
95-63-6	1,2,4-Trimethylbenzene	3.80E-07	6.06E-06	7.92E-10	1.68E-01	0.399	0.148	0.251	B4A
106-46-7	1,4-Dichlorobenzene	4.32E-07	6.90E-06	7.90E-10	6.66E-02	0.399	0.148	0.251	AW8
71-43-2	Benzene	5.51E-07	8.80E-06	9.80E-10	1.73E-01	0.399	0.148	0.251	B7
100-41-4	Ethylbenzene	4.70E-07	7.50E-06	7.80E-10	2.28E-01	0.399	0.148	0.251	B7
98-82-8	Isopropylbenzene	4.07E-07	6.50E-06	7.10E-10	3.06E+01	0.399	0.148	0.251	B7
179601-23-1	m,p-Xylenes	4.39E-07	7.00E-06	7.80E-10	2.11E-01	0.399	0.148	0.251	B4A
91-20-3	Naphthalene	3.70E-07	5.90E-06	7.50E-10	1.26E-02	0.399	0.148	0.251	B7
103-65-1	n-Propylbenzene	3.77E-07	6.01E-06	7.83E-10	2.96E-01	0.399	0.148	0.251	B7
135-98-8	sec-Butylbenzene	3.58E-07	5.70E-06	8.12E-10	1.17E-02	0.399	0.148	0.251	B7
108-88-3	Toluene	5.45E-07	8.70E-06	8.60E-10	1.99E-01	0.399	0.148	0.251	B4A

Sources:

A. USEPA, *User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings* , Table 11 – Guidance for Selection of Soil Type, (2004) 37.
The soil parameters are based on a soil texture classification of "loam."

B. USEPA, Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings, Version 3.1, Soil Properties Lookup Table, (2004).

The ASCON Landfill RAP EIR
Health Risk Assessment
Calculation of VOC Emissions from Groundwater

Total Flux

Equation:

$$F = \frac{C_{source}\, R/K_{H,S}}{exp\left(\frac{R \times L}{D_{eff} \times K_{H,S}}\right) - 1}$$

(Source: DTSC, *Santa Susana Field Laboratory, Standardized Risk Assessment Methodology Work Plan - Revision 2* , September 2005. Equation 8.)

Where:

F =	Total flux mass (µg/m^2-s)
C_{source} =	Soil gas source vapor concentration (µg/m^3) = C_{SG}
D_{eff} =	Effective diffusion coefficient (m^2/s)
$K_{H,S}$ =	Henry's Law at Average Soil Temperature (dimensionless)
L =	Thickness of the sub-surface layer (m)
R =	Average steady recharge rate (m/s)

1	3	4	5	6	7	8	9	10
CAS Number	**Chemical**	**Total Mass Flux F (µg/m^2-s)**	**Concentration in Soil Gas C_{SG} (µg/m^3)**	**Effective diffusion coefficient D_{eff} (m^2/s)**	**Henry's Law at Average Soil Temperature $K_{H,S}$ (dimensionless)**	**Thickness of the sub-surface layer[A] L (m)**	**Average steady recharge rate[B] R (m/s)**	**Groundwater Well No.**
95-63-6	1,2,4-Trimethylbenzene	6.52E-06	1.20E+02	3.80E-07	1.68E-01	6.66	8.55E-10	B4A
106-46-7	1,4-Dichlorobenzene	5.30E-06	4.13E+01	4.32E-07	6.66E-02	3.22	8.55E-10	AW8
71-43-2	Benzene	3.78E-04	3.62E+03	5.51E-07	1.73E-01	5.17	8.55E-10	B7
100-41-4	Ethylbenzene	7.70E-03	8.65E+04	4.70E-07	2.28E-01	5.17	8.55E-10	B7
98-82-8	Isopropylbenzene	1.40E+00	1.78E+07	4.07E-07	3.06E+01	5.17	8.55E-10	B7
179601-23-1	m,p-Xylenes	1.62E-05	2.54E+02	4.39E-07	2.11E-01	6.66	8.55E-10	B4A
91-20-3	Naphthalene	3.74E-05	8.71E+02	3.70E-07	1.26E-02	5.17	8.55E-10	B7
103-65-1	n-Propylbenzene	4.01E-04	5.61E+03	3.77E-07	2.96E-01	5.17	8.55E-10	B7
135-98-8	sec-Butylbenzene	1.37E-05	3.52E+02	3.58E-07	1.17E-02	5.17	8.55E-10	B7
108-88-3	Toluene	7.14E-06	8.95E+01	5.45E-07	1.99E-01	6.66	8.55E-10	B4A

Sources:

A. Depth measured as of March 19, 2012.

B. Western Regional Climate Center, Cooperative Climatological Data Summaries, NOAA Cooperative Stations - Temperature and Precipitation, Newport Beach Harbor, California (COOP ID 046175), NCDC 1981-2010 Monthly Normals.
Available: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6175. Accessed 12/3/2012.
Average steady recharge rate is based on 10% of the annual average precipitation (10.62 inches).

The ASCON Landfill RAP EIR
Health Risk Assessment
Calculation of VOC Emissions from Groundwater

VOC Emissions

Equation: $E_{VOC} = F \times A_F \times C_M \times C_T$

Where:

E_{VOC} = VOC emissions (lbs/hour, lbs/day, lbs/year)
F = Total flux mass ($\mu g/m^2$-s)
A_F = Flux area (m^2)
C_M = Mass conversion factor (2.20E-09 lbs = 1 µg)
C_T = Time conversion factor (3600 s/hour, 86400 s/day, 31536000 s/year)

1	3	4	5	6	7	8	9	10	11	12	13
					Total Mass		**Mass Conversion**				
		VOC Emissions			**Flux**	**Flux Area**	**Factor**	**Time Conversion Factor**			
CAS Number	**Chemical**	**E_{VOC} (lbs/hour)**	**E_{VOC} (lbs/day)**	**E_{VOC} (lbs/year)**	**F ($\mu g/m^2$-s)**	**A_F (m^2)**	**C_M (lb/µg)**	**C_T (s/hour)**	**C_T (s/day)**	**C_T (s/year)**	**Groundwater Well No.**
95-63-6	1,2,4-Trimethylbenzene	7.76E-08	1.86E-06	6.80E-04	6.52E-06	1,500	2.20E-09	3600	86400	31536000	B4A
106-46-7	1,4-Dichlorobenzene	6.30E-08	1.51E-06	5.52E-04	5.30E-06	1,500	2.20E-09	3600	86400	31536000	AW8
71-43-2	Benzene	2.25E-07	5.39E-06	1.97E-03	3.78E-04	1,500	2.20E-09	3600	86400	31536000	B7[A]
100-41-4	Ethylbenzene	4.58E-06	1.10E-04	4.02E-02	7.70E-03	1,500	2.20E-09	3600	86400	31536000	B7[A]
98-82-8	Isopropylbenzene	8.33E-04	2.00E-02	7.30E+00	1.40E+00	1,500	2.20E-09	3600	86400	31536000	B7[A]
179601-23-1	m,p-Xylenes	1.93E-07	4.63E-06	1.69E-03	1.62E-05	1,500	2.20E-09	3600	86400	31536000	B4A
91-20-3	Naphthalene	2.23E-08	5.35E-07	1.95E-04	3.74E-05	1,500	2.20E-09	3600	86400	31536000	B7[A]
103-65-1	n-Propylbenzene	2.39E-07	5.72E-06	2.09E-03	4.01E-04	1,500	2.20E-09	3600	86400	31536000	B7[A]
135-98-8	sec-Butylbenzene	8.17E-09	1.96E-07	7.16E-05	1.37E-05	1,500	2.20E-09	3600	86400	31536000	B7[A]
108-88-3	Toluene	8.50E-08	2.04E-06	7.45E-04	7.14E-06	1,500	2.20E-09	3600	86400	31536000	B4A

Note:
A. Well B7 is located within the temporary (e.g., Sprung) structure. The VOC emissions are reduced by the estimated VOC capture and control efficiency of 95%.

Table 49 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 4

CAS No.	Chemical Name	Total Emissions (lbs)
100-41-4	Ethylbenzene	3.61E-03
100-42-5	Styrene	5.10E-04
1024-57-3	Heptachlor epoxide	1.36E-04
1031-07-8	Endosulfan sulfate	1.83E-05
103-65-1	n-Propylbenzene	2.40E-03
104-51-8	n-Butylbenzene	2.80E-04
106-42-3	P-XYLENE	2.38E-04
106-93-4	1,2-Dibromoethane	2.59E-05
108-38-3	M-XYLENE	2.76E-03
108-67-8	1,3,5-Trimethylbenzene	1.71E-03
108-88-3	Toluene	1.16E-03
108-90-7	Chlorobenzene	8.50E-06
108-95-2	Phenol	6.80E-04
11096-82-5	Aroclor 1260	1.61E-04
11097-69-1	Aroclor 1254	6.37E-05
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	6.73E-03
120-12-7	Anthracene	7.22E-03
120-82-1	1,2,4-Trichlorobenzene	4.25E-06
127-18-4	Tetrachloroethene	3.31E-05
12789-03-6	Chlordane	5.95E-03
129-00-0	Pyrene	2.00E-03
1330-20-7	XYLENES (TOTAL)	2.32E-02
135-98-8	(1-METHYLPROPYL)BENZENE	1.92E-03
179601-23-1	m,p-Xylenes	3.40E-03
18540-29-9	Chromium (VI)	3.10E-03
191-24-2	Benzo(g,h,i)perylene	1.43E-04
193-39-5	Indeno(1,2,3-cd)pyrene	9.22E-05
205-99-2	Benzo(b)fluoranthene	1.51E-04
206-44-0	Fluoranthene	1.78E-03
207-08-9	Benzo(k)fluoranthene	5.95E-04
208-96-8	Acenaphthylene	8.50E-06
218-01-9	Chrysene	1.17E-03
319-84-6	alpha-BHC	1.15E-05
319-85-7	beta-BHC	3.19E-04
33213-65-9	Endosulfan II	4.67E-05
50-29-3	4,4'-DDT	2.17E-05
50-32-8	Benzo(a)pyrene	2.38E-03
5103-74-2	GAMMA-CHLORDANE	7.22E-05
53494-70-5	Endrin ketone	1.02E-05
53-70-3	Dibenz(a,h)anthracene	7.22E-03
56-55-3	BENZ[A]ANTHRACENE	9.35E-05
58-89-9	gamma-BHC (Lindane)	2.76E-04
591-78-6	2-Hexanone	1.44E-05
60-57-1	Dieldrin	1.32E-04
67-64-1	2-PROPANONE	3.25E-04
71-43-2	Benzene	2.89E-04

Table 49 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 4

CAS No.	Chemical Name	Total Emissions (lbs)
72-43-5	Methoxychlor	2.25E-05
72-54-8	4,4'-DDD	1.28E-05
72-55-9	4,4'-DDE	3.31E-05
7421-93-4	Endrin aldehyde	9.01E-06
7439-92-1	Lead	7.18E-01
7439-97-6	Mercury	8.92E-04
7439-98-7	Molybdenum	5.91E-03
7440-02-0	Nickel	1.57E-01
7440-22-4	Silver	1.94E-03
7440-28-0	Thallium	1.03E-01
7440-36-0	Antimony	9.83E-03
7440-38-2	Arsenic	4.19E-02
7440-39-3	Barium	1.56E+00
7440-41-7	Beryllium	2.44E-03
7440-43-9	Cadmium	5.47E-03
7440-47-3	Chromium	2.27E-01
7440-48-4	Cobalt	4.33E-02
7440-50-8	Copper	2.08E+00
7440-62-2	Vanadium	1.99E-01
7440-66-6	Zinc	8.55E-01
75-09-2	Methylene Chloride	2.77E-05
75-35-4	1,1-Dichloroethene	1.83E-05
75-69-4	Trichlorofluoromethane	2.42E-04
7631-86-9	Crystalline Silica	3.71E+01
76-44-8	Heptachlor	1.23E-04
7782-49-2	Selenium	1.98E-02
78-00-2	Organic Lead	1.75E-03
78-93-3	2-Butanone	6.37E-05
79-34-5	1,1,2,2-Tetrachloroethane	1.23E-05
83-32-9	Acenaphthene	9.77E-03
84-74-2	Di-n-butyl phthalate	1.81E-03
85-01-8	Phenanthrene	4.38E-01
85-68-7	BENZYL BUTYL PHTHALATE	2.68E-03
86-73-7	Fluorene	8.92E-03
87-61-6	1,2,3-Trichlorobenzene	5.52E-06
91-20-3	Naphthalene	5.26E-03
91-57-6	2-Methylnaphthalene	2.11E-02
91-94-1	3,3'-DICHLOROBENZIDINE	3.48E-04
95-47-6	o-Xylene	6.42E-04
95-50-1	1,2-Dichlorobenzene	1.49E-03
95-63-6	1,2,4-Trimethylbenzene	4.96E-03
96-12-8	1,2-Dibromo-3-Chloropropane	2.51E-05
98-82-8	1-METHYLETHYLBENZENE	1.64E-03
99-87-6	p-Isopropyltoluene	1.47E-03

Table 50 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 6

CAS No.	Name	Total Emissions (lbs)
100-41-4	Ethylbenzene	4.27E-01
100-42-5	Styrene	2.68E-01
10042-59-8	2-PROPYL-1-HEPTANOL	6.22E-01
1024-57-3	Heptachlor epoxide	1.05E-03
1031-07-8	Endosulfan sulfate	1.41E-04
103-65-1	n-Propylbenzene	5.25E-02
104-51-8	n-Butylbenzene	9.47E-03
105-67-9	2,4-Dimethylphenol	1.28E+00
106-42-3	P-XYLENE	1.28E-02
106-43-4	4-Chlorotoluene	3.93E-02
106-46-7	1,4-Dichlorobenzene	7.53E-03
106-93-4	1,2-Dibromoethane	2.00E-04
107-06-2	1,2-Dichloroethane	3.28E-01
108-38-3	M-XYLENE	8.84E-01
108-67-8	1,3,5-Trimethylbenzene	2.94E-02
108-88-3	Toluene	3.20E-02
108-90-7	Chlorobenzene	2.16E-01
108-95-2	Phenol	3.60E-03
11096-82-5	Aroclor 1260	2.82E-03
11097-69-1	Aroclor 1254	2.00E-01
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	3.51E-01
120-12-7	Anthracene	2.62E-02
120-82-1	1,2,4-Trichlorobenzene	3.28E-05
123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	2.29E+01
12672-29-6	Aroclor 1248	1.70E-01
12674-11-2	Aroclor 1016	5.24E-02
127-18-4	Tetrachloroethene	2.56E-04
12789-03-6	Chlordane	4.59E-02
129-00-0	Pyrene	8.32E-03
132-64-9	Dibenzofuran	1.77E-02
1330-20-7	XYLENES (TOTAL)	1.62E-01
135-98-8	(1-METHYLPROPYL)BENZENE	2.33E-01
1653-40-3	6-METHYL-1,1-HEPTANOL	9.83E-01
179601-23-1	m,p-Xylenes	7.27E-02
18540-29-9	Chromium (VI)	2.39E-02
191-24-2	Benzo(g,h,i)perylene	6.13E-04
193-39-5	Indeno(1,2,3-cd)pyrene	4.16E-04
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.08E-01
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.72E-01
205-99-2	Benzo(b)fluoranthene	6.35E-04
206-44-0	Fluoranthene	7.67E-03
207-08-9	Benzo(k)fluoranthene	4.59E-03
208-96-8	Acenaphthylene	6.55E-05
218-01-9	Chrysene	5.08E-03
22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.34E-01
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.11E-01

Table 50 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 6

CAS No.	Name	Total Emissions (lbs)
26952-21-6	ISOOCTANOL	3.60E-01
2719-52-0	(1-METHYLBUTYL)BENZENE	2.00E-01
2883-05-8	2-CYCLOHEXYLDECANE	2.65E-01
319-84-6	alpha-BHC	5.57E-04
319-85-7	beta-BHC	5.37E-04
33213-65-9	Endosulfan II	3.60E-04
3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.38E-01
4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	8.84E-02
496-10-6	OCTAHYDROINDENE	1.02E+00
50-29-3	4,4'-DDT	1.24E-04
50-32-8	Benzo(a)pyrene	1.03E-02
5103-74-2	GAMMA-CHLORDANE	5.57E-04
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.46E-01
53469-21-9	Aroclor 1242	1.38E-01
53494-70-5	Endrin ketone	9.83E-05
5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.31E+00
53-70-3	Dibenz(a,h)anthracene	5.57E-02
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	5.90E-02
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.52E-01
56-55-3	BENZ[A]ANTHRACENE	5.21E-04
58-89-9	gamma-BHC (Lindane)	2.13E-03
591-78-6	2-Hexanone	1.11E-04
60-57-1	Dieldrin	1.02E-03
65-85-0	Benzoic acid	5.24E-03
67-64-1	2-PROPANONE	6.21E-02
67-66-3	Chloroform	8.19E-01
71-43-2	Benzene	2.00E-02
71-55-6	1,1,1-Trichloroethane	4.26E-01
72-43-5	Methoxychlor	1.74E-04
72-54-8	4,4'-DDD	8.98E-05
72-55-9	4,4'-DDE	1.69E-04
7421-93-4	Endrin aldehyde	6.62E-05
7439-92-1	Lead	4.35E+00
7439-97-6	Mercury	3.26E-02
7439-98-7	Molybdenum	5.94E-02
7440-02-0	Nickel	8.84E-01
7440-22-4	Silver	1.30E-02
7440-28-0	Thallium	4.56E-01
7440-36-0	Antimony	5.62E-02
7440-38-2	Arsenic	2.85E-01
7440-39-3	Barium	8.59E+00
7440-41-7	Beryllium	1.50E-02
7440-43-9	Cadmium	2.92E-02
7440-47-3	Chromium	1.32E+00
7440-48-4	Cobalt	2.90E-01
7440-50-8	Copper	9.08E+00

Table 50 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Alternative 6

CAS No.	Name	Total Emissions (lbs)
7440-62-2	Vanadium	1.38E+00
7440-66-6	Zinc	5.31E+00
75-09-2	Methylene Chloride	2.72E-02
75-25-2	Bromoform	1.54E-01
75-34-3	1,1-Dichloroethane	2.29E-02
75-35-4	1,1-Dichloroethene	1.41E-04
75-69-4	Trichlorofluoromethane	9.11E-03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.82E-01
7631-86-9	Crystalline Silica	3.71E+01
76-44-8	Heptachlor	9.50E-04
7782-49-2	Selenium	9.34E-02
78-00-2	Organic Lead	8.42E-03
78-93-3	2-Butanone	1.76E-02
79-34-5	1,1,2,2-Tetrachloroethane	3.08E-03
83-32-9	Acenaphthene	6.78E-03
84-74-2	Di-n-butyl phthalate	1.07E-02
85-01-8	Phenanthrene	2.55E+00
85-68-7	BENZYL BUTYL PHTHALATE	2.06E-02
86-30-6	N-Nitrosodiphenylamine	2.23E-02
86-73-7	Fluorene	4.11E-02
87-61-6	1,2,3-Trichlorobenzene	4.26E-05
91-17-8	DECAHYDRONAPHTHALENE	4.91E-01
91-20-3	Naphthalene	3.20E-01
91-57-6	2-Methylnaphthalene	1.39E-01
91-94-1	3,3'-DICHLOROBENZIDINE	2.69E-03
941-60-6	1,1,4-6-TETRAMETHYLINDANE	6.55E-02
95-47-6	o-Xylene	3.48E-02
95-50-1	1,2-Dichlorobenzene	5.11E-03
95-63-6	1,2,4-Trimethylbenzene	8.96E-02
96-12-8	1,2-Dibromo-3-Chloropropane	1.93E-04
98-06-6	tert-Butylbenzene	8.84E-05
98-82-8	1-METHYLETHYLBENZENE	2.60E-01
99-87-6	p-Isopropyltoluene	2.17E-02

Table 51 - Summary of Estimated Non-VOC Emissions (Fugitive Dust) - Pit F

CAS No.	Name	Total Emissions (lbs)
100-41-4	Ethylbenzene	4.79E-04
100-42-5	Styrene	5.55E-03
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	3.83E-02
135-98-8	(1-METHYLPROPYL)BENZENE	5.36E-03
18540-29-9	Chromium (VI)	4.79E-05
206-44-0	Fluoranthene	2.11E-01
67-64-1	2-PROPANONE	1.82E-04
7439-92-1	Lead	1.86E-03
7439-97-6	Mercury	2.30E-05
7440-02-0	Nickel	9.96E-04
7440-38-2	Arsenic	2.30E-04
7440-39-3	Barium	1.40E-02
7440-43-9	Cadmium	2.87E-05
7440-47-3	Chromium	6.13E-04
7440-50-8	Copper	2.30E-03
7440-62-2	Vanadium	1.34E-03
7440-66-6	Zinc	4.60E-03
7782-49-2	Selenium	4.79E-06
78-00-2	Organic Lead	8.43E-06
78-93-3	2-Butanone	8.24E-04
85-01-8	Phenanthrene	1.05E+01
91-20-3	Naphthalene	3.26E-02
95-63-6	1,2,4-Trimethylbenzene	4.79E-04

ASCON HRA - Health Risk Assessment

List of Sources - Alternative 4

No.	Source ID[a]	Description	Emission Type	Source Type
1	1	Phase 1 - Mobilization and Maintain Haul Roads	Fugitive	Area Source
2	2.1	Phase 2 - Pit F - Clear and Grub (Preparation)	Fugitive	Area Source
3	2.2	Phase 2 - Pit F - Sprung Structure Exhaust	Fugitive	Point
4	3.1	Phase 3.1 - Support Berm	Fugitive	Area Source
5	3.2	Phase 3.2 - Cut and Fill to Top of Waste	Fugitive	Area Source
6	4.1	Phase 4 - Treatment Cell	Fugitive	Area Source
7	5	Phase 5 - Concrete Debris	Fugitive	Area Source
8	6	Phase 6 - Fill to Final Grade	Fugitive	Area Source
9	7.1	Phase 7 - Surface Water Control (1 of 2)	Fugitive	Area Source
10	7.2	Phase 7 - Surface Water Control (2 of 2)	Fugitive	Area Source
11	8	Phase 8 - City Parcel	Fugitive	Area Source
12	9	Phase 9 - South Coast Oil Corporation	Fugitive	Area Source
13	10	Phase 10 - Site Restoration	Fugitive	Area Source
14	1D	Phase 1 - Mobilization and Maintain Haul Roads (DPM)	Diesel Particulate	Area Source
15	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM	Diesel Particulate	Area Source
16	5D	Phase 5 - Concrete Debris (DPM)	Diesel Particulate	Area Source
17	6D	Phase 6 - Fill to Final Grade (DPM)	Diesel Particulate	Area Source
18	8D	Phase 8 - City Parcel (DPM)	Diesel Particulate	Area Source
19	9D	Phase 7 - South Coast Oil Corporation - DPM	Diesel Particulate	Area Source
20	AW_8	Monitoring Well AW-8	Fugitive	Area Source
21	B_4	Monitoring Well B_4	Fugitive	Area Source
22	B_7	Monitoring Well B_7	Fugitive	Area Source
23	BENZ_1	Benzidine Area - 1	Fugitive	Area Source
24	HAUL_N	Haul Road - North	Fugitive	Area Source
25	HAUL_ND	Haul Road - North	Fugitive	Area Source
26	HAUL_S	Haul Road - South	Fugitive	Area Source
27	HAUL_SD	Haul Road - South	Fugitive	Area Source
28	OFF_N	Offsite Truck Emissions - North	Diesel Particulate	Area Source
29	OFF_S	Offsite Truck - South	Diesel Particulate	Area Source
30	STKP_L_N	Stockpile Loading Area - North	Fugitive	Area Source
31	STKP_L_S	Stockpile Loading Area - South	Fugitive	Area Source
32	STKP_LND	Stockpile Loading Area - North	Fugitive	Area Source
33	STKP_LSD	Stockpile Loading Area - South	Fugitive	Area Source
34	TRUCK_N	Truck Loading Area - North	Diesel Particulate	Area Source
35	TRUCK_S	Truck Loading Area - South	Diesel Particulate	Area Source

[a] Source ID used for AERMOD dispersion modeling

ASCON HRA - Health Risk Assessment

List of Sources - Alternative 6

No.	Source ID[a]	Description	Emission Type	Source Type
1	1	Phase 1 - Mobilization and Maintain Haul Roads	Fugitive	Area Source
2	2.1	Phase 2 - Pit F - Clear and Grub (Preparation)	Fugitive	Area Source
3	2.2	Phase 2 - Pit F - Sprung Structure Exhaust	Fugitive	Point
4	3	Phase 3 - Lagoons 2-5 Removal	Fugitive	Area Source
5	5	Phase 5 - Final Grade	Fugitive	Area Source
6	6.1	Phase 6 - Surface Water Control (1 of 2)	Fugitive	Area Source
7	6.2	Phase 6 - Surface Water Control (2 of 2)	Fugitive	Area Source
8	7	Phase 7 - South Coast Oil Corporation	Fugitive	Area Source
9	8	Phase 8 - Site Restoration	Fugitive	Area Source
10	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM	Diesel Particulate	Area Source
11	3D	Phase 3 - Lagoons 2-5 Removal - DPM	Diesel Particulate	Area Source
12	4A	Phase 4A - Excavation	Fugitive	Area Source
13	4AD	Phase 4A - Excavation - DPM	Diesel Particulate	Area Source
14	4B	Phase 4B - Excavation	Fugitive	Area Source
15	4BD	Phase 4B - Excavation - DPM	Diesel Particulate	Area Source
16	4C	Phase 4C - Excavation	Fugitive	Area Source
17	4CD	Phase 4C - Excavation - DPM	Diesel Particulate	Area Source
18	4D	Phase 4D - Excavation	Fugitive	Area Source
19	4DD	Phase 4D - Excavation - DPM	Diesel Particulate	Area Source
20	7D	Phase 7 - South Coast Oil Corporation - DPM	Diesel Particulate	Area Source
21	AW_8	Monitoring Well AW-8	Fugitive	Area Source
22	B_4	Monitoring Well B_4	Fugitive	Area Source
23	B_7	Monitoring Well B_7	Fugitive	Area Source
24	BENZ_1	Benzidine Contaminated Area	Fugitive	Area Source
25	HAUL_N	Haul Road - North	Fugitive	Area Source
26	HAUL_ND	Haul Road - North	Fugitive	Area Source
27	HAUL_S	Haul Road - South	Fugitive	Area Source
28	HAUL_SD	Haul Road - South	Fugitive	Area Source
29	OFF_N	Offsite Truck - North	Diesel Particulate	Area Source
30	OFF_S	Offsite Truck - South	Diesel Particulate	Area Source
31	STKP_L_N	Stockpile Loading Area - North	Fugitive	Area Source
32	STKP_L_S	Stockpile Loading Area - South	Fugitive	Area Source
33	STKP_LND	Stockpile Loading Area - North	Fugitive	Area Source
34	STKP_LSD	Stockpile Loading Area - South	Fugitive	Area Source
35	TRUCK_N	Truck Loading Area - North	Diesel Particulate	Area Source
36	TRUCK_S	Truck Loading Area - South	Diesel Particulate	Area Source

[a] Source ID used for AERMOD dispersion modeling

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
Residential		
1	409950	3723000
2	410000	3723000
3	410050	3723000
4	410100	3723000
5	410150	3723000
6	410200	3723000
7	410250	3723000
8	410300	3723000
9	410350	3723000
10	410000	3723050
11	410050	3723050
12	410100	3723050
13	410150	3723050
14	410200	3723050
15	410250	3723050
16	410300	3723050
17	410350	3723050
18	410000	3723100
19	410050	3723100
20	410100	3723100
21	410150	3723100
22	410200	3723100
23	410250	3723100
24	410300	3723100
25	410350	3723100
26	410000	3723150
27	410050	3723150
28	410100	3723150
29	410150	3723150
30	410200	3723150
31	410250	3723150
32	410300	3723150
33	410350	3723150
34	410000	3723200
35	410050	3723200
36	410100	3723200
37	410150	3723200
38	410200	3723200
39	410250	3723200
40	410300	3723200
41	410350	3723200

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
42	410000	3723250
43	410050	3723250
44	410100	3723250
45	410150	3723250
46	410200	3723250
47	410250	3723250
48	410300	3723250
49	410350	3723250
50	410000	3723300
51	410050	3723300
52	410100	3723300
53	410150	3723300
54	410200	3723300
55	410250	3723300
56	410300	3723300
57	410350	3723300
58	410000	3723350
59	410050	3723350
60	410100	3723350
61	410150	3723350
62	410200	3723350
63	410250	3723350
64	410300	3723350
65	410350	3723350
66	410000	3723400
67	410050	3723400
68	410100	3723400
69	410150	3723400
70	410200	3723400
71	410250	3723400
72	410300	3723400
73	410350	3723400
74	410000	3723450
75	410050	3723450
76	410100	3723450
77	410150	3723450
78	410200	3723450
79	410250	3723450
80	410300	3723450
81	410350	3723450
82	410000	3723500
83	410050	3723500

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
84	410100	3723500
85	410150	3723500
86	410200	3723500
87	410250	3723500
88	410300	3723500
89	410350	3723500
90	410000	3723550
91	410050	3723550
92	410100	3723550
93	410150	3723550
94	410200	3723550
95	410250	3723550
96	410300	3723550
97	410350	3723550
98	410000	3723600
99	410050	3723600
100	410100	3723600
101	410150	3723600
102	410200	3723600
103	410250	3723600
104	410300	3723600
105	410350	3723600
106	410000	3723650
107	410050	3723650
108	410100	3723650
109	410150	3723650
110	410200	3723650
111	410250	3723650
112	410300	3723650
113	410350	3723650
114	410000	3723700
115	410050	3723700
116	410100	3723700
117	410150	3723700
118	410200	3723700
119	410250	3723700
120	410300	3723700
121	410350	3723700
122	410000	3723750
123	410050	3723750
124	410100	3723750
125	410150	3723750

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
126	410200	3723750
127	410250	3723750
128	410300	3723750
129	410350	3723750
130	410000	3723800
131	410050	3723800
132	410100	3723800
133	410150	3723800
134	410200	3723800
135	410250	3723800
136	410300	3723800
137	410350	3723800
138	409200	3723850
139	409250	3723850
140	409300	3723850
141	409350	3723850
142	409200	3723900
143	409250	3723900
144	409300	3723900
145	409350	3723900
146	409400	3723900
147	409450	3723900
148	409500	3723900
149	409550	3723900
150	409200	3723950
151	409250	3723950
152	409300	3723950
153	409350	3723950
154	409400	3723950
155	409450	3723950
156	409500	3723950
157	409550	3723950
158	409200	3724000
159	409250	3724000
160	409300	3724000
161	409350	3724000
162	409400	3724000
163	409450	3724000
164	409500	3724000
165	409550	3724000
166	409150	3724050
167	409200	3724050

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
168	409250	3724050
169	409300	3724050
170	409350	3724050
171	409400	3724050
172	409450	3724050
173	409500	3724050
174	409550	3724050
175	409150	3724100
176	409200	3724100
177	409250	3724100
178	409300	3724100
179	409350	3724100
180	409400	3724100
181	409450	3724100
182	409500	3724100
183	409550	3724100
184	409150	3724150
185	409200	3724150
186	409250	3724150
187	409300	3724150
188	409350	3724150
189	409400	3724150
190	409450	3724150
191	409500	3724150
192	409550	3724150
193	409150	3724200
194	409200	3724200
195	409250	3724200
196	409300	3724200
197	409350	3724200
198	409400	3724200
199	409450	3724200
200	409500	3724200
201	409550	3724200
202	409150	3724250
203	409200	3724250
204	409250	3724250
205	409300	3724250
206	409350	3724250
207	409400	3724250
208	409450	3724250
209	409500	3724250

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
210	409550	3724250
211	409700	3724250
212	409750	3724250
213	409800	3724250
214	409850	3724250
215	409900	3724250
216	409950	3724250
217	409980	3723425
218	409980	3723450
219	409980	3723475
220	409980	3723500
221	409980	3723525
222	409980	3723550
223	409980	3723575
224	409980	3723600
225	409980	3723625
226	409980	3723650
227	409980	3723675
228	409980	3723700
229	409980	3723725
230	409980	3723750
231	409980	3723775
232	409980	3723800
233	409900	3723900
234	409950	3723900
School		
1	410000	3723900
2	410050	3723900
3	410100	3723900
4	410150	3723900
5	410200	3723900
6	410250	3723900
7	410300	3723900
8	410350	3723900
9	410000	3723950
10	410050	3723950
11	410100	3723950
12	410150	3723950
13	410200	3723950
14	410250	3723950
15	410300	3723950
16	410350	3723950

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
17	410000	3724000
18	410050	3724000
19	410100	3724000
20	410150	3724000
21	410200	3724000
22	410250	3724000
23	410300	3724000
24	410350	3724000
25	410000	3724050
26	410050	3724050
27	410100	3724050
28	410150	3724050
29	410200	3724050
30	410250	3724050
31	410300	3724050
32	410350	3724050
33	410000	3724100
34	410050	3724100
35	410100	3724100
36	410150	3724100
37	410200	3724100
38	410250	3724100
39	410300	3724100
40	410350	3724100
41	410000	3724150
42	410050	3724150
43	410100	3724150
44	410150	3724150
45	410200	3724150
46	410250	3724150
47	410300	3724150
48	410350	3724150
49	410000	3724200
50	410050	3724200
51	410100	3724200
52	410150	3724200
53	410200	3724200
54	410250	3724200
55	410300	3724200
56	410350	3724200
57	410000	3724250
58	410050	3724250

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
59	410100	3724250
60	410150	3724250
61	410200	3724250
62	410250	3724250
63	410300	3724250
64	410350	3724250
Worker		
1	409150	3723000
2	409200	3723000
3	409250	3723000
4	409300	3723000
5	409350	3723000
6	409400	3723000
7	409450	3723000
8	409500	3723000
9	409550	3723000
10	409600	3723000
11	409650	3723000
12	409700	3723000
13	409750	3723000
14	409800	3723000
15	409850	3723000
16	409900	3723000
17	409150	3723050
18	409200	3723050
19	409250	3723050
20	409300	3723050
21	409350	3723050
22	409400	3723050
23	409450	3723050
24	409500	3723050
25	409550	3723050
26	409600	3723050
27	409650	3723050
28	409700	3723050
29	409750	3723050
30	409800	3723050
31	409850	3723050
32	409900	3723050
33	409150	3723100
34	409200	3723100
35	409250	3723100

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
36	409300	3723100
37	409350	3723100
38	409400	3723100
39	409450	3723100
40	409500	3723100
41	409550	3723100
42	409600	3723100
43	409650	3723100
44	409700	3723100
45	409750	3723100
46	409800	3723100
47	409850	3723100
48	409900	3723100
49	409950	3723100
50	409150	3723150
51	409200	3723150
52	409250	3723150
53	409300	3723150
54	409350	3723150
55	409400	3723150
56	409450	3723150
57	409500	3723150
58	409550	3723150
59	409600	3723150
60	409650	3723150
61	409700	3723150
62	409750	3723150
63	409800	3723150
64	409850	3723150
65	409900	3723150
66	409950	3723150
67	409150	3723200
68	409200	3723200
69	409250	3723200
70	409300	3723200
71	409350	3723200
72	409400	3723200
73	409450	3723200
74	409500	3723200
75	409550	3723200
76	409600	3723200
77	409650	3723200

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
78	409700	3723200
79	409750	3723200
80	409800	3723200
81	409850	3723200
82	409900	3723200
83	409950	3723200
84	409150	3723250
85	409200	3723250
86	409250	3723250
87	409300	3723250
88	409350	3723250
89	409400	3723250
90	409450	3723250
91	409500	3723250
92	409550	3723250
93	409600	3723250
94	409650	3723250
95	409700	3723250
96	409750	3723250
97	409800	3723250
98	409850	3723250
99	409900	3723250
100	409950	3723250
101	409150	3723300
102	409200	3723300
103	409250	3723300
104	409300	3723300
105	409350	3723300
106	409400	3723300
107	409450	3723300
108	409500	3723300
109	409550	3723300
110	409600	3723300
111	409650	3723300
112	409700	3723300
113	409750	3723300
114	409800	3723300
115	409850	3723300
116	409900	3723300
117	409950	3723300
118	409150	3723350
119	409200	3723350

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
120	409250	3723350
121	409300	3723350
122	409350	3723350
123	409400	3723350
124	409450	3723350
125	409500	3723350
126	409550	3723350
127	409600	3723350
128	409650	3723350
129	409700	3723350
130	409750	3723350
131	409800	3723350
132	409850	3723350
133	409900	3723350
134	409950	3723350
135	409150	3723400
136	409200	3723400
137	409250	3723400
138	409300	3723400
139	409350	3723400
140	409400	3723400
141	409450	3723400
142	409500	3723400
143	409550	3723400
144	409600	3723400
145	409650	3723400
146	409700	3723400
147	409750	3723400
148	409800	3723400
149	409850	3723400
150	409900	3723400
151	409950	3723400
152	409150	3723450
153	409200	3723450
154	409250	3723450
155	409300	3723450
156	409350	3723450
157	409400	3723450
158	409450	3723450
159	409500	3723450
160	409550	3723450
161	409150	3723500

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
162	409200	3723500
163	409250	3723500
164	409300	3723500
165	409350	3723500
166	409400	3723500
167	409450	3723500
168	409500	3723500
169	409550	3723500
170	409150	3723550
171	409200	3723550
172	409250	3723550
173	409300	3723550
174	409350	3723550
175	409400	3723550
176	409450	3723550
177	409500	3723550
178	409550	3723550
179	409150	3723600
180	409200	3723600
181	409250	3723600
182	409300	3723600
183	409350	3723600
184	409400	3723600
185	409450	3723600
186	409500	3723600
187	409550	3723600
188	409150	3723650
189	409200	3723650
190	409250	3723650
191	409300	3723650
192	409350	3723650
193	409400	3723650
194	409450	3723650
195	409500	3723650
196	409550	3723650
197	409150	3723700
198	409200	3723700
199	409250	3723700
200	409300	3723700
201	409350	3723700
202	409400	3723700
203	409450	3723700

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
204	409500	3723700
205	409550	3723700
206	409150	3723750
207	409200	3723750
208	409250	3723750
209	409300	3723750
210	409350	3723750
211	409400	3723750
212	409450	3723750
213	409500	3723750
214	409550	3723750
215	409150	3723800
216	409200	3723800
217	409250	3723800
218	409300	3723800
219	409350	3723800
220	409400	3723800
221	409450	3723800
222	409500	3723800
223	409550	3723800
Park and Fire Station Receptor		
1	409400	3723850
2	409450	3723850
3	409500	3723850
4	409550	3723850
5	409600	3723850
6	409650	3723850
7	409700	3723850
8	409750	3723850
9	409800	3723850
10	409850	3723850
11	409900	3723850
12	409950	3723850
13	409600	3723900
14	409650	3723900
15	409700	3723900
16	409750	3723900
17	409800	3723900
18	409850	3723900
19	409900	3723900
20	409950	3723900
21	409600	3723950

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
22	409650	3723950
23	409700	3723950
24	409750	3723950
25	409800	3723950
26	409850	3723950
27	409900	3723950
28	409950	3723950
29	409600	3724000
30	409650	3724000
31	409700	3724000
32	409750	3724000
33	409800	3724000
34	409850	3724000
35	409900	3724000
36	409950	3724000
37	409600	3724050
38	409650	3724050
39	409700	3724050
40	409750	3724050
41	409800	3724050
42	409850	3724050
43	409900	3724050
44	409950	3724050
45	409600	3724100
46	409650	3724100
47	409700	3724100
48	409750	3724100
49	409800	3724100
50	409850	3724100
51	409900	3724100
52	409950	3724100
53	409600	3724150
54	409650	3724150
55	409700	3724150
56	409750	3724150
57	409800	3724150
58	409850	3724150
59	409900	3724150
60	409950	3724150
61	409600	3724200
62	409650	3724200
63	409700	3724200

ASCON Health Risk Assessment

List of Receptors[a]

Number	UTM (Easting)	UTM (Northing)
64	409750	3724200
65	409800	3724200
66	409850	3724200
67	409900	3724200
68	409950	3724200
69	409600	3724250
70	409650	3724250

[a] Coordinates are presented in NAD83 datum.

ASCON Health Risk Assessment

Table 3. List of Toxicity Factors

CAS No.	ABBREVIATION	Cancer Potency Factor (Inhalation)	Cancer Potency Factor (Oral)	ChronicREL (Inhalation)	ChronicREL (Oral)	AcuteREL	Source
		(mg/kg-d)^-1	(mg/kg-d)^-1	ug/m^3	mg/kg-d	ug/m^3	
78-00-2	Organic Lead	*	*	*	*	*	OEHHA/HARP
7631-86-9	Crystalline Silica	*	*	3.00E+00	*	*	OEHHA/HARP
9901	Diesel Particulate	1.10E+00	*	5.00E+00	*	*	OEHHA/HARP
50-29-3	4,4'-DDT	*	*	*	*	*	OEHHA/HARP
50-32-8	Benzo(a)pyrene	3.90E+00	1.20E+01	*	*	*	OEHHA/HARP
53-70-3	Dibenz(a,h)anthracene	4.10E+00	4.10E+00	*	*	*	OEHHA/HARP
56-55-3	BENZ[A]ANTHRACENE	3.90E-01	1.20E+00	*	*	*	OEHHA/HARP
12789-03-6	Chlordane	1.19E+00	*	*	*	*	OEHHA/HARP
58-89-9	gamma-BHC (Lindane)	1.10E+00	1.10E+00	*	*	*	OEHHA/HARP
60-57-1	Dieldrin	*	*	*	*	*	OEHHA/HARP
67-64-1	2-PROPANONE	*	*	*	*	*	OEHHA/HARP
67-66-3	Chloroform	1.90E-02	*	3.00E+02	*	1.50E+02	OEHHA/HARP
10042-59-8	2-PROPYL-1-HEPTANOL	*	*	*	*	*	OEHHA/HARP
71-43-2	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03	OEHHA/HARP
71-55-6	1,1,1-Trichloroethane	*	*	1.00E+03	*	6.80E+04	OEHHA/HARP
72-43-5	Methoxychlor	*	*	*	*	*	OEHHA/HARP
72-54-8	4,4'-DDD	*	*	*	*	*	OEHHA/HARP
72-55-9	4,4'-DDE	3.40E-01	*	*	*	*	OEHHA/HARP
75-09-2	Methylene Chloride	3.50E-03	*	4.00E+02	*	1.40E+04	OEHHA/HARP
75-25-2	Bromoform	*	*	*	*	*	OEHHA/HARP
75-34-3	1,1-Dichloroethane	5.70E-03	*	*	*	*	OEHHA/HARP
75-35-4	1,1-Dichloroethene	*	*	7.00E+01	*	*	OEHHA/HARP
75-69-4	Trichlorofluoromethane	*	*	*	*	*	OEHHA/HARP
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	*	*	*	*	*	OEHHA/HARP
76-44-8	Heptachlor	5.60E+00	*	*	*	*	OEHHA/HARP
78-93-3	2-Butanone	*	*	*	*	1.30E+04	OEHHA/HARP
79-34-5	1,1,2,2-Tetrachloroethane	2.00E-01	*	*	*	*	OEHHA/HARP
83-32-9	Acenaphthene	*	*	*	*	*	OEHHA/HARP

ASCON Health Risk Assessment

Table 3. List of Toxicity Factors

CAS No.	ABBREVIATION	Cancer Potency Factor (Inhalation)	Cancer Potency Factor (Oral)	ChronicREL (Inhalation)	ChronicREL (Oral)	AcuteREL	Source
		(mg/kg-d)^-1	(mg/kg-d)^-1	ug/m^3	mg/kg-d	ug/m^3	
84-74-2	Di-n-butyl phthalate	*	*	*	*	*	OEHHA/HARP
85-01-8	Phenanthrene	*	*	*	*	*	OEHHA/HARP
85-68-7	BENZYL BUTYL PHTHALATE	*	*	*	*	*	OEHHA/HARP
86-30-6	N-Nitrosodiphenylamine	9.00E-03	*	*	*	*	OEHHA/HARP
86-73-7	Fluorene	*	*	*	*	*	OEHHA/HARP
91-20-3	Naphthalene	1.20E-01	*	9.00E+00	*	*	OEHHA/HARP
91-57-6	2-Methylnaphthalene	*	*	*	*	*	OEHHA/HARP
91-94-1	3,3'-DICHLOROBENZIDINE	1.20E+00	*	*	*	*	OEHHA/HARP
92-87-5	Benzidine	5.00E+02	*	*	*	*	OEHHA/HARP
95-47-6	o-Xylene	*	*	7.00E+02	*	2.20E+04	OEHHA/HARP
95-50-1	1,2-Dichlorobenzene	*	*	*	*	*	OEHHA/HARP
95-63-6	1,2,4-Trimethylbenzene	*	*	*	*	*	OEHHA/HARP
96-12-8	1,2-Dibromo-3-Chloropropane	7.00E+00	*	*	*	*	OEHHA/HARP
98-82-8	1-METHYLETHYLBENZENE	*	*	*	*	*	OEHHA/HARP
100-41-4	Ethylbenzene	8.70E-03	*	2.00E+03	*	*	OEHHA/HARP
100-42-5	Styrene	*	*	9.00E+02	*	2.10E+04	OEHHA/HARP
123-79-5	HEXANEDIOIC ACID, DIOCTYL ESTER	*	*	*	*	*	OEHHA/HARP
105-67-9	2,4-Dimethylphenol	*	*	*	*	*	OEHHA/HARP
106-42-3	P-XYLENE	*	*	7.00E+02	*	2.20E+04	OEHHA/HARP
106-46-7	1,4-Dichlorobenzene	4.00E-02	*	8.00E+02	*	*	OEHHA/HARP
106-93-4	1,2-Dibromoethane	2.50E-01	*	8.00E-01	*	*	OEHHA/HARP
107-06-2	1,2-Dichloroethane	7.20E-02	*	4.00E+02	*	*	OEHHA/HARP
108-38-3	M-XYLENE	*	*	7.00E+02	*	2.20E+04	OEHHA/HARP
108-88-3	Toluene	*	*	3.00E+02	*	3.70E+04	OEHHA/HARP
108-90-7	Chlorobenzene	*	*	1.00E+03	*	*	OEHHA/HARP
108-95-2	Phenol	*	*	2.00E+02	*	5.80E+03	OEHHA/HARP
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	8.40E-03	8.40E-03	*	*	*	OEHHA/HARP
120-12-7	Anthracene	*	*	*	*	*	OEHHA/HARP

ASCON Health Risk Assessment

Table 3. List of Toxicity Factors

CAS No.	ABBREVIATION	Cancer Potency Factor (Inhalation)	Cancer Potency Factor (Oral)	ChronicREL (Inhalation)	ChronicREL (Oral)	AcuteREL	Source
		(mg/kg-d)^-1	(mg/kg-d)^-1	ug/m^3	mg/kg-d	ug/m^3	
120-82-1	1,2,4-Trichlorobenzene	*	*	*	*	*	OEHHA/HARP
127-18-4	Tetrachloroethene	2.10E-02	*	3.50E+01	*	2.00E+04	OEHHA/HARP
129-00-0	Pyrene	*	*	*	*	*	OEHHA/HARP
132-64-9	Dibenzofuran	*	*	*	*	*	OEHHA/HARP
191-24-2	Benzo(g,h,i)perylene	*	*	*	*	*	OEHHA/HARP
193-39-5	Indeno(1,2,3-cd)pyrene	3.90E-01	1.20E+00	*	*	*	OEHHA/HARP
205-99-2	Benzo(b)fluoranthene	3.90E-01	1.20E+00	*	*	*	OEHHA/HARP
206-44-0	Fluoranthene	*	*	*	*	*	OEHHA/HARP
207-08-9	Benzo(k)fluoranthene	3.90E-01	1.20E+00	*	*	*	OEHHA/HARP
208-96-8	Acenaphthylene	*	*	*	*	*	OEHHA/HARP
218-01-9	Chrysene	3.90E-02	1.20E-01	*	*	*	OEHHA/HARP
319-84-6	alpha-BHC	4.00E+00	4.00E+00	*	*	*	OEHHA/HARP
319-85-7	beta-BHC	4.00E+00	4.00E+00	*	*	*	OEHHA/HARP
1024-57-3	Heptachlor epoxide	*	*	*	*	*	OEHHA/HARP
1330-20-7	XYLENES (TOTAL)	*	*	7.00E+02	*	2.20E+04	OEHHA/HARP
106-43-4	4-Chlorotoluene	*	*	*	*	*	OEHHA/HARP
7439-92-1	Lead	4.20E-02	8.50E-03	*	*	*	OEHHA/HARP
7439-97-6	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01	OEHHA/HARP
7440-02-0	Nickel	9.10E-01	*	1.40E-02	1.10E-02	2.00E-01	OEHHA/HARP
7440-22-4	Silver	*	*	*	*	*	OEHHA/HARP
7440-28-0	Thallium	*	*	*	*	*	OEHHA/HARP
7440-36-0	Antimony	*	*	*	*	*	OEHHA/HARP
7440-38-2	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01	OEHHA/HARP
7440-39-3	Barium	*	*	*	*	*	OEHHA/HARP
7440-41-7	Beryllium	8.40E+00	*	7.00E-03	2.00E-03	*	OEHHA/HARP
7440-43-9	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*	OEHHA/HARP
7440-47-3	Chromium	*	*	*	*	*	OEHHA/HARP
7440-48-4	Cobalt	*	*	*	*	*	OEHHA/HARP

ASCON Health Risk Assessment

Table 3. List of Toxicity Factors

CAS No.	ABBREVIATION	Cancer Potency Factor (Inhalation)	Cancer Potency Factor (Oral)	ChronicREL (Inhalation)	ChronicREL (Oral)	AcuteREL	Source
		(mg/kg-d)^-1	(mg/kg-d)^-1	ug/m^3	mg/kg-d	ug/m^3	
7440-50-8	Copper	*	*	*	*	1.00E+02	OEHHA/HARP
7440-62-2	Vanadium	*	*	*	*	3.00E+01	OEHHA/HARP
7440-66-6	Zinc	*	*	*	*	*	OEHHA/HARP
7782-49-2	Selenium	*	*	2.00E+01	*	*	OEHHA/HARP
18540-29-9	Chromium (VI)	5.10E+02	*	2.00E-01	2.00E-02	*	OEHHA/HARP
108-67-8	1,3,5-Trimethylbenzene	*	*	*	*	*	OEHHA/HARP
103-65-1	n-Propylbenzene	*	*	1.0E+03	1.0E-01	*	OEHHA/HARP
104-51-8	n-Butylbenzene	*	*	*	5.0E-02	*	IRIS/PPRTV
11096-82-5	Aroclor 1260	2.0E+00	2.0E+00	*	*	*	IRIS/PPRTV
135-98-8	(1-METHYLPROPYL)BENZENE	*	*	*	5.0E-02	*	IRIS/PPRTV
7421-93-4	Endrin aldehyde	*	*	*	3.0E-04	*	IRIS/PPRTV
7439-98-7	Molybdenum	*	*	*	5.0E-03	*	IRIS/PPRTV
1031-07-8	Endosulfan sulfate	*	*	*	6.0E-03	*	IRIS/PPRTV
11097-69-1	Aroclor 1254	2.0E+00	2.0E+00	*	2.0E-05	*	IRIS/PPRTV
12672-29-6	Aroclor 1248	2.0E+00	2.0E+00	*	*	*	IRIS/PPRTV
12674-11-2	Aroclor 1016	7.0E-02	7.0E-02	*	7.0E-05	*	IRIS/PPRTV
1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	*	*	*	5.0E-02	*	IRIS/PPRTV
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	*	*	1.0E+03	1.0E-01	*	IRIS/PPRTV
22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZEI	*	*	*	7.0E-02	*	IRIS/PPRTV
2719-52-0	(1-METHYLBUTYL)BENZENE	*	*	*	5.0E-02	*	IRIS/PPRTV
2883-05-8	2-CYCLOHEXYLDECANE	*	*	2.0E+02	3.0E-04	*	IRIS/PPRTV
33213-65-9	Endosulfan II	*	*	*	6.0E-03	*	IRIS/PPRTV
3875-51-2	1-METHYLETHYLCYCLOPENTANE	*	*	2.0E+02	3.0E-04	*	IRIS/PPRTV
496-10-6	OCTAHYDROINDENE	*	*	7.0E+00	8.0E-03	*	IRIS/PPRTV
5103-74-2	GAMMA-CHLORDANE	3.5E-01	3.5E-01	7.0E-01	5.0E-04	*	IRIS/PPRTV
527-53-7	1,2,3,5-TETRAMETHYLBENZENE	*	*	*	1.0E-02	*	IRIS/PPRTV
53469-21-9	Aroclor 1242	2.0E+00	2.0E+00	*	*	*	IRIS/PPRTV
53494-70-5	Endrin ketone	*	*	*	3.0E-04	*	IRIS/PPRTV

ASCON Health Risk Assessment

Table 3. List of Toxicity Factors

CAS No.	ABBREVIATION	Cancer Potency Factor (Inhalation)	Cancer Potency Factor (Oral)	ChronicREL (Inhalation)	ChronicREL (Oral)	AcuteREL	Source
		(mg/kg-d)^-1	(mg/kg-d)^-1	ug/m^3	mg/kg-d	ug/m^3	
5364-83-0	(1-PROPENYL)CYCLOHEXANE	*	*	2.0E+02	3.0E-04	*	IRIS/PPRTV
54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	*	*	*	5.0E-02	*	IRIS/PPRTV
5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETH	*	*	*	7.0E-02	*	IRIS/PPRTV
591-78-6	2-Hexanone	*	*	3.0E+01	5.0E-03	*	IRIS/PPRTV
65-85-0	Benzoic acid	*	*	*	4.0E+00	*	IRIS/PPRTV
941-60-6	1,1,4-6-TETRAMETHYLINDANE	*	*	*	4.9E+01	*	IRIS/PPRTV
2958-76-1	Decahydro-2-methylnaphthalene	*					

ASCON HRA - Health Risk Assessment

Emissions Formatting (Annual) - Alternative 4

			Total PM10 Emissions Inventory (lbs/year)[a]					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	Phase	Subphase	Silica	Fugitive Dust	Fugitive Dust	DPM	Road Dust	Idle_DPM
1.1	Mobilization	Maintain haul roads for duration of project						
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade			8.0E+01	2.6E-02	7.8E+00	5.4E-02
2.2	Pit F	Traffic Control and Temporary Fencing						
2.3	Pit F	Assemble Sprung Structure						
2.4	Pit F	Slurry Trench Excavation(waste in bins)		3.7E-01				
2.5	Pit F	Transport and Dispose of Impacted Material				1.1E-01	3.3E+01	2.3E-01
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		7.2E-01		1.9E-01	5.7E+01	3.9E-01
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste		3.1E+01	3.2E+02	6.8E-02	2.8E+02	2.0E-01
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile						
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY						
4.1	Treatment Cell	Process VOC-impacted material						
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		1.3E+02					
6.1	Fill to Final Grade					5.4E+00	2.0E+03	1.1E+01
7.1	Surface Water Controls	Cut and Backfill						
7.2	Surface Water Controls	Install V-Ditches						
8.1	City Parcel	Cut and Backfill		9.4E-01				
8.2	City Parcel	Utility Poles		1.3E-03				
9.1	South Coast Oil Corporation	Cut		1.5E+00				
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade				1.9E-02	7.9E+01	5.5E-02
10.1	Site Restoration							

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in the HRA.

ASCON HRA - Health Risk Assessment

Emissions Formatting (Annual) - Alternative 4

			Total PM10 Emissions Inventory (lbs/year)[a]							
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]
Phase No.	Phase	Subphase	DPM	DPM	Road Dust	Idle_DPM	Fugitive Dust	Fugitive Dust	DPM	DPM
1.1	Mobilization	Maintain haul roads for duration of project	1.2E+02	1.1E+00	3.1E+02	1.7E+00				
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	4.4E+01	1.7E-01	4.9E+01	2.7E-01	9.0E-03	3.6E-03	1.2E-02	7.4E-03
2.2	Pit F	Traffic Control and Temporary Fencing	3.6E+00	2.8E-02	8.2E+00	4.5E-02				
2.3	Pit F	Assemble Sprung Structure	6.4E+00							
2.4	Pit F	Slurry Trench Excavation(waste in bins)	2.3E+01	2.7E-02	7.9E+00	4.3E-02				
2.5	Pit F	Transport and Dispose of Impacted Material	0.0E+00						5.1E-02	3.1E-02
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	4.3E+01	3.5E-01	1.0E+02	5.6E-01	3.5E-02	1.4E-02	8.9E-02	5.4E-02
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste	6.5E+02	1.3E+00	2.2E+03	9.1E+00			9.4E-02	5.7E-02
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	1.1E+02	6.2E-01	1.8E+02	9.8E-01				
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY	0.0E+00							
4.1	Treatment Cell	Process VOC-impacted material	9.6E+01							
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		2.2E+01	6.7E-01	2.0E+02	1.1E+00				
6.1	Fill to Final Grade		6.5E+01	5.7E-01	1.7E+02	9.1E-01			2.5E+00	1.5E+00
7.1	Surface Water Controls	Cut and Backfill	1.4E+01	1.2E-01	3.6E+01	2.0E-01				
7.2	Surface Water Controls	Install V-Ditches	7.4E+00	2.2E-01	6.6E+01	3.6E-01				
8.1	City Parcel	Cut and Backfill	1.3E+01	6.7E-02	1.1E+02	4.7E-01				
8.2	City Parcel	Utility Poles	0.0E+00	4.5E-02	1.3E+01	7.1E-02				
9.1	South Coast Oil Corporation	Cut	3.0E+01	6.7E-02	1.1E+02	4.7E-01				
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade	5.1E+00	4.5E-02	1.3E+01	7.1E-02			2.7E-02	1.6E-02
10.1	Site Restoration		3.2E+00							

[a] Emissions inventory prepared for Interim Deliverable #2

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[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Annual) - Alternative 4

Phase No.	Phase	Subphase
1.1	**Mobilization**	Maintain haul roads for duration of project
2.1	**Pit F**	Clear and grub, prepare haul roads, lay-down areas, initial grade
2.2	**Pit F**	Traffic Control and Temporary Fencing
2.3	**Pit F**	Assemble Sprung Structure
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)
2.5	**Pit F**	Transport and Dispose of Impacted Material
3.1	**Cut/Fill to Top of Waste**	Install slurry wall at lagoons 4 and 5
3.2	**Cut/Fill to Top of Waste**	Cut/Fill to top of waste
3.3	**Cut/Fill to Top of Waste**	Place waste in treatment cell or stockpile
3.4	**Cut/Fill to Top of Waste**	Excavate stockpile and export up to 30,000 BCY
4.1	**Treatment Cell**	Process VOC-impacted material
5.1	**Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill**	
6.1	**Fill to Final Grade**	
7.1	**Surface Water Controls**	Cut and Backfill
7.2	**Surface Water Controls**	Install V-Ditches
8.1	**City Parcel**	Cut and Backfill
8.2	**City Parcel**	Utility Poles
9.1	**South Coast Oil Corporation**	Cut
9.2	**South Coast Oil Corporation**	Backfill to Top of Final Grade
10.1	**Site Restoration**	

Step 3 - Allocate emissions for individual AERMOD sources

Off-site Truck Haul Path /	Excavation		North Haul Road		South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)
Stockpile Area	Area Wide	Stockpile	DPM	Dust	DPM	Dust	Loading	Wash	Loading	Wash	DPM	Dust	Dust	Concrete	DPM
											1.2E+02	3.1E+02	0.0E+00	0.0E+00	0.0E+00
North			2.6E-02	7.8E+00			2.7E-02	2.7E-02			4.4E+01	4.9E+01	8.0E+01	0.0E+00	1.2E-02
											3.7E+00	8.2E+00	0.0E+00	0.0E+00	0.0E+00
											6.4E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	1.9E-01	1.9E-01									2.3E+01	7.9E+00	0.0E+00	0.0E+00	0.0E+00
North			1.1E-01	3.3E+01			1.1E-01	1.1E-01			0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.1E-02
North	3.6E-01	3.6E-01	1.9E-01	5.7E+01			2.0E-01	2.0E-01			4.4E+01	1.0E+02	4.9E-02	0.0E+00	8.9E-02
50/50	1.6E+01	1.6E+01	3.4E-02	1.4E+02	3.4E-02	1.4E+02	4.9E-02	4.9E-02	4.9E-02	4.9E-02	6.6E+02	2.2E+03	3.2E+02	0.0E+00	9.4E-02
											1.1E+02	1.8E+02	0.0E+00	0.0E+00	0.0E+00
											0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
											9.6E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00
											2.4E+01	2.0E+02	0.0E+00	1.3E+02	0.0E+00
50/50			2.7E+00		2.7E+00		2.7E+00	2.7E+00	2.7E+00	2.7E+00	6.7E+01		0.0E+00	0.0E+00	2.5E+00
											1.4E+01	3.6E+01	0.0E+00	0.0E+00	0.0E+00
											8.0E+00	6.6E+01	0.0E+00	0.0E+00	0.0E+00
	4.7E-01	4.7E-01									1.4E+01	1.1E+02	0.0E+00	0.0E+00	0.0E+00
	6.6E-04	6.6E-04									1.2E-01	1.3E+01	0.0E+00	0.0E+00	0.0E+00
	7.7E-01	7.7E-01									3.1E+01	1.1E+02	0.0E+00	0.0E+00	0.0E+00
50/50			9.7E-03	3.9E+01	9.7E-03	3.9E+01	1.4E-02	1.4E-02	1.4E-02	1.4E-02	5.2E+00	1.3E+01	0.0E+00	0.0E+00	2.7E-02
											3.2E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Annual) - Alternative 4

			Off-site Haul (South)	Fugitive Dust Emissions (lbs/year)[f]					Diesel Particulate Emissions (lbs/year)[f]						
Phase No.	Phase	Subphase	DPM	Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South
1.1	Mobilization	Maintain haul roads for duration of project	0.0E+00	3.1E+02			0.0E+00		1.2E+02						
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	7.4E-03	1.3E+02	7.8E+00		0.0E+00		4.4E+01	2.6E-02		2.7E-02		2.7E-02	
2.2	Pit F	Traffic Control and Temporary Fencing	0.0E+00	8.2E+00			0.0E+00		3.7E+00						
2.3	Pit F	Assemble Sprung Structure	0.0E+00	0.0E+00			0.0E+00		6.4E+00						
2.4	Pit F	Slurry Trench Excavation(waste in bins)	0.0E+00	8.1E+00			1.9E-01		2.3E+01						
2.5	Pit F	Transport and Dispose of Impacted Material	3.1E-02	0.0E+00	3.3E+01					1.1E-01		1.1E-01		1.1E-01	
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	5.4E-02	1.0E+02	5.7E+01		1.8E-01	1.8E-01	4.4E+01	1.9E-01		2.0E-01		2.0E-01	
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste	5.7E-02	2.5E+03	1.4E+02	1.4E+02	7.9E+00	7.9E+00	6.6E+02	3.4E-02	3.4E-02	4.9E-02	4.9E-02	4.9E-02	4.9E-02
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	0.0E+00	1.8E+02					1.1E+02						
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY	0.0E+00	0.0E+00											
4.1	Treatment Cell	Process VOC-impacted material	0.0E+00	0.0E+00					9.6E+01						
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		0.0E+00	2.0E+02					2.4E+01						
6.1	Fill to Final Grade		1.5E+00	0.0E+00	0.0E+00	0.0E+00			6.7E+01	2.7E+00	2.7E+00	2.7E+00	2.7E+00	2.7E+00	2.7E+00
7.1	Surface Water Controls	Cut and Backfill	0.0E+00	3.6E+01					1.4E+01						
7.2	Surface Water Controls	Install V-Ditches	0.0E+00	6.6E+01					8.0E+00						
8.1	City Parcel	Cut and Backfill	0.0E+00	1.1E+02			4.7E-01		1.4E+01						
8.2	City Parcel	Utility Poles	0.0E+00	1.3E+01			6.6E-04		1.2E-01						
9.1	South Coast Oil Corporation	Cut	0.0E+00	1.1E+02			3.9E-01	3.9E-01	3.1E+01						
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade	1.6E-02	1.3E+01	3.9E+01	3.9E+01			5.2E+00	9.7E-03	9.7E-03	1.4E-02	1.4E-02	1.4E-02	1.4E-02
10.1	Site Restoration		0.0E+00	0.0E+00					3.2E+00						

[a] Emissions inventory prepared for Interim Deliverable #2 1,292

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Annual) - Alternative 4

Phase No.	Phase	Subphase	Off-site Haul (North)	Off-site Haul (South)
1.1	**Mobilization**	Maintain haul roads for duration of project		
2.1	**Pit F**	Clear and grub, prepare haul roads, lay-down areas, initial grade	1.2E-02	7.4E-03
2.2	**Pit F**	Traffic Control and Temporary Fencing		
2.3	**Pit F**	Assemble Sprung Structure		
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)		
2.5	**Pit F**	Transport and Dispose of Impacted Material	5.1E-02	3.1E-02
3.1	**Cut/Fill to Top of Waste**	Install slurry wall at lagoons 4 and 5	8.9E-02	5.4E-02
3.2	**Cut/Fill to Top of Waste**	Cut/Fill to top of waste	9.4E-02	5.7E-02
3.3	**Cut/Fill to Top of Waste**	Place waste in treatment cell or stockpile		
3.4	**Cut/Fill to Top of Waste**	Excavate stockpile and export up to 30,000 BCY		
4.1	**Treatment Cell**	Process VOC-impacted material		
5.1	**Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill**			
6.1	**Fill to Final Grade**		2.5E+00	1.5E+00
7.1	**Surface Water Controls**	Cut and Backfill		
7.2	**Surface Water Controls**	Install V-Ditches		
8.1	**City Parcel**	Cut and Backfill		
8.2	**City Parcel**	Utility Poles		
9.1	**South Coast Oil Corporation**	Cut		
9.2	**South Coast Oil Corporation**	Backfill to Top of Final Grade	2.7E-02	1.6E-02
10.1	**Site Restoration**			

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	Diesel Particulate	Ethylbenzene	Styrene	n-Propylbenzene	n-Butylbenzene	1,3,5-Trimethylbenzene	Toluene	Phenol	Aroclor 1260	BIS(2-ETHYLHEXYL) PHTHALATE
		CAS No.	9901	100-41-4	100-42-5	103-65-1	104-51-8	108-67-8	108-88-3	108-95-2	11096-82-5	117-81-7
	Non-Pit F	UCL Concentration (mg/kg)[a]	1	8.5E-01	1.2E-01	5.6E-01	6.6E-02	4.0E-01	2.7E-01	1.6E-01	3.8E-02	1.6E+00
	Pit F	UCL Concentration (mg/kg)[a]	1	2.5E+00	2.9E+01							2.0E+02

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/year)	Diesel Particulate (lbs/year)								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02		2.7E-04	3.8E-05	1.8E-04	2.1E-05	1.3E-04	8.6E-05	5.0E-05	1.2E-05	5.0E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02		1.1E-04	1.5E-05	7.3E-05	8.5E-06	5.2E-05	3.5E-05	2.1E-05	4.9E-06	2.0E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01	3.3E+01	4.1E-05	4.7E-04							3.3E-03
4	3_1	Phase 3.1 - Support Berm	1.0E+02	4.4E+01	8.9E-05	1.3E-05	5.9E-05	6.9E-06	4.2E-05	2.8E-05	1.7E-05	4.0E-06	1.7E-04
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	7.7E+02	2.3E-03	3.2E-04	1.5E-03	1.8E-04	1.1E-03	7.3E-04	4.3E-04	1.0E-04	4.2E-03
6	4_1	Phase 4 - Treatment Cell		9.6E+01									
7	5	Phase 5 - Concrete Debris	2.0E+02		1.7E-04	2.4E-05	1.1E-04	1.3E-05	8.0E-05	5.4E-05	3.2E-05	7.5E-06	3.1E-04
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	1.4E+01	3.1E-05	4.4E-06	2.0E-05	2.4E-06	1.5E-05	9.9E-06	5.8E-06	1.4E-06	5.8E-05
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	8.0E+00	5.6E-05	7.9E-06	3.7E-05	4.3E-06	2.7E-05	1.8E-05	1.1E-05	2.5E-06	1.0E-04
11	8	Phase 8 - City Parcel	1.3E+02		1.1E-04	1.5E-05	7.1E-05	8.3E-06	5.0E-05	3.4E-05	2.0E-05	4.8E-06	2.0E-04
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02		1.1E-04	1.5E-05	7.1E-05	8.3E-06	5.1E-05	3.4E-05	2.0E-05	4.8E-06	2.0E-04
13	10	Phase 10 - Site Restoration		3.2E+00									
14	HAUL_N	Haul Road - North	2.8E+02		2.3E-04	3.3E-05	1.6E-04	1.8E-05	1.1E-04	7.5E-05	4.4E-05	1.0E-05	4.4E-04
15	HAUL_S	Haul Road - South	1.8E+02		1.5E-04	2.1E-05	1.0E-04	1.2E-05	7.1E-05	4.8E-05	2.8E-05	6.7E-06	2.8E-04
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00		7.7E-06	1.1E-06	5.1E-06	6.0E-07	3.7E-06	2.5E-06	1.5E-06	3.4E-07	1.4E-05
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00		7.2E-06	1.0E-06	4.8E-06	5.6E-07	3.4E-06	2.3E-06	1.3E-06	3.2E-07	1.3E-05
18	TRUCK_N	Truck Loading Area - North		3.1E+00									
19	TRUCK_S	Truck Loading Area - South		2.8E+00									
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI		1.2E+02									
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP		4.4E+01									
22	5D	Phase 5 - Concrete Debris (DPM)		2.4E+01									
23	6D	Phase 6 - Fill to Final Grade (DPM)		6.7E+01									
24	8D	Phase 8 - City Parcel (DPM)		1.4E+01									
25	9D	Phase 7 - South Coast Oil Corporation - DPM		3.6E+01									
26	HAUL_ND	Haul Road - North		3.1E+00									
27	HAUL_SD	Haul Road - South		2.7E+00									
28	STKP_LND	Stockpile Loading Area - North		3.1E+00									
29	STKP_LSD	Stockpile Loading Area - South		2.8E+00									
30	OFF_N	Offsite Truck Emissions - North		2.7E+00									
31	OFF_S	Offsite Truck - South		1.7E+00									

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	Anthracene	Pyrene	XYLENES (TOTAL)	(1-METHYLPROPYL)BENZENE	m,p-Xylenes	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Benzo(b)fluoranthene	Fluoranthene	Chrysene
		CAS No.	120-12-7	129-00-0	1330-20-7	135-98-8	179601-23-1	191-24-2	193-39-5	205-99-2	206-44-0	218-01-9
	Non-Pit F	UCL Concentration (mg/kg)[a]	1.7E+00	4.7E-01	5.5E+00	4.5E-01	8.0E-01	3.4E-02	2.2E-02	3.6E-02	4.2E-01	2.8E-01
	Pit F	UCL Concentration (mg/kg)[a]				2.8E+01					1.1E+03	
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**									
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	5.3E-04	1.5E-04	1.7E-03	1.4E-04	2.5E-04	1.1E-05	6.8E-06	1.1E-05	1.3E-04	8.6E-05
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	2.2E-04	6.1E-05	7.0E-04	5.8E-05	1.0E-04	4.3E-06	2.8E-06	4.6E-06	5.4E-05	3.5E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01				4.6E-04					1.8E-02	
4	3_1	Phase 3.1 - Support Berm	1.0E+02	1.8E-04	4.9E-05	5.7E-04	4.7E-05	8.4E-05	3.5E-06	2.3E-06	3.7E-06	4.4E-05	2.9E-05
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	4.6E-03	1.3E-03	1.5E-02	1.2E-03	2.1E-03	9.0E-05	5.8E-05	9.5E-05	1.1E-03	7.4E-04
6	4_1	Phase 4 - Treatment Cell											
7	5	Phase 5 - Concrete Debris	2.0E+02	3.4E-04	9.3E-05	1.1E-03	9.0E-05	1.6E-04	6.6E-06	4.3E-06	7.0E-06	8.3E-05	5.4E-05
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	6.2E-05	1.7E-05	2.0E-04	1.6E-05	2.9E-05	1.2E-06	7.9E-07	1.3E-06	1.5E-05	1.0E-05
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	1.1E-04	3.1E-05	3.6E-04	3.0E-05	5.3E-05	2.2E-06	1.4E-06	2.3E-06	2.8E-05	1.8E-05
11	8	Phase 8 - City Parcel	1.3E+02	2.1E-04	5.9E-05	6.8E-04	5.7E-05	1.0E-04	4.2E-06	2.7E-06	4.5E-06	5.3E-05	3.4E-05
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	2.1E-04	5.9E-05	6.9E-04	5.7E-05	1.0E-04	4.2E-06	2.7E-06	4.5E-06	5.3E-05	3.5E-05
13	10	Phase 10 - Site Restoration											
14	HAUL_N	Haul Road - North	2.8E+02	4.7E-04	1.3E-04	1.5E-03	1.2E-04	2.2E-04	9.3E-06	6.0E-06	9.8E-06	1.2E-04	7.6E-05
15	HAUL_S	Haul Road - South	1.8E+02	3.0E-04	8.4E-05	9.7E-04	8.0E-05	1.4E-04	6.0E-06	3.9E-06	6.3E-06	7.4E-05	4.9E-05
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	1.5E-05	4.3E-06	5.0E-05	4.1E-06	7.3E-06	3.1E-07	2.0E-07	3.2E-07	3.8E-06	2.5E-06
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	1.4E-05	4.0E-06	4.6E-05	3.8E-06	6.8E-06	2.8E-07	1.8E-07	3.0E-07	3.5E-06	2.3E-06
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI											
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP											
22	5D	Phase 5 - Concrete Debris (DPM)											
23	6D	Phase 6 - Fill to Final Grade (DPM)											
24	8D	Phase 8 - City Parcel (DPM)											
25	9D	Phase 7 - South Coast Oil Corporation - DPM											
26	HAUL_ND	Haul Road - North											
27	HAUL_SD	Haul Road - South											
28	STKP_LND	Stockpile Loading Area - North											
29	STKP_LSD	Stockpile Loading Area - South											
30	OFF_N	Offsite Truck Emissions - North											
31	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	beta-BHC	4,4'-DDT	Benzo(a)pyrene	BENZ[A]ANTHRACENE	2-PROPANONE	Benzene	4,4'-DDD	4,4'-DDE	Endrin aldehyde	Lead	Mercury	Molybdenum	Nickel	Silver
		CAS No.	319-85-7	50-29-3	50-32-8	56-55-3	67-64-1	71-43-2	72-54-8	72-55-9	7421-93-4	7439-92-1	7439-97-6	7439-98-7	7440-02-0	7440-22-4
	Non-Pit F	UCL Concentration (mg/kg)[a]	7.5E-02	5.1E-03	5.6E-01	2.2E-02	7.6E-02	6.8E-02	3.0E-03	7.8E-03	2.1E-03	1.7E+02	2.1E-01	1.4E+00	3.7E+01	4.6E-01
	Pit F	UCL Concentration (mg/kg)[a]					9.5E-01					9.7E+00	1.2E-01		5.2E+00	
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**													
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	2.4E-05	1.6E-06	1.8E-04	6.9E-06	2.4E-05	2.1E-05	9.5E-07	2.4E-06	6.6E-07	5.3E-02	6.6E-05	4.4E-04	1.2E-02	1.4E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	9.7E-06	6.6E-07	7.2E-05	2.8E-06	9.9E-06	8.8E-06	3.9E-07	1.0E-06	2.7E-07	2.2E-02	2.7E-05	1.8E-04	4.8E-03	5.9E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01					1.6E-05					1.6E-04	2.0E-06		8.5E-05	
4	3_1	Phase 3.1 - Support Berm	1.0E+02	7.8E-06	5.3E-07	5.8E-05	2.3E-06	8.0E-06	7.1E-06	3.2E-07	8.1E-07	2.2E-07	1.8E-02	2.2E-05	1.5E-04	3.9E-03	4.8E-05
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	2.0E-04	1.4E-05	1.5E-03	5.9E-05	2.0E-04	1.8E-04	8.1E-06	2.1E-05	5.7E-06	4.5E-01	5.6E-04	3.7E-03	9.9E-02	1.2E-03
6	4_1	Phase 4 - Treatment Cell															
7	5	Phase 5 - Concrete Debris	2.0E+02	1.5E-05	1.0E-06	1.1E-04	4.4E-06	1.5E-05	1.3E-05	6.0E-07	1.5E-06	4.2E-07	3.3E-02	4.2E-05	2.8E-04	7.3E-03	9.0E-05
8	6	Phase 6 - Fill to Final Grade															
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	2.7E-06	1.9E-07	2.0E-05	8.0E-07	2.8E-06	2.5E-06	1.1E-07	2.8E-07	7.7E-08	6.1E-03	7.6E-06	5.0E-05	1.3E-03	1.7E-05
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	4.9E-06	3.4E-07	3.7E-05	1.5E-06	5.0E-06	4.5E-06	2.0E-07	5.1E-07	1.4E-07	1.1E-02	1.4E-05	9.2E-05	2.4E-03	3.0E-05
11	8	Phase 8 - City Parcel	1.3E+02	9.4E-06	6.4E-07	7.0E-05	2.8E-06	9.6E-06	8.5E-06	3.8E-07	9.8E-07	2.7E-07	2.1E-02	2.6E-05	1.7E-04	4.6E-03	5.7E-05
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	9.4E-06	6.4E-07	7.0E-05	2.8E-06	9.6E-06	8.6E-06	3.8E-07	9.8E-07	2.7E-07	2.1E-02	2.6E-05	1.7E-04	4.7E-03	5.7E-05
13	10	Phase 10 - Site Restoration															
14	HAUL_N	Haul Road - North	2.8E+02	2.1E-05	1.4E-06	1.5E-04	6.1E-06	2.1E-05	1.9E-05	8.3E-07	2.1E-06	5.8E-07	4.7E-02	5.8E-05	3.8E-04	1.0E-02	1.3E-04
15	HAUL_S	Haul Road - South	1.8E+02	1.3E-05	9.1E-07	9.9E-05	3.9E-06	1.4E-05	1.2E-05	5.4E-07	1.4E-06	3.8E-07	3.0E-02	3.7E-05	2.5E-04	6.6E-03	8.1E-05
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	6.8E-07	4.6E-08	5.1E-06	2.0E-07	6.9E-07	6.2E-07	2.7E-08	7.1E-08	1.9E-08	1.5E-03	1.9E-06	1.3E-05	3.4E-04	4.2E-06
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	6.3E-07	4.3E-08	4.7E-06	1.9E-07	6.4E-07	5.7E-07	2.5E-08	6.6E-08	1.8E-08	1.4E-03	1.8E-06	1.2E-05	3.1E-04	3.9E-06
18	TRUCK_N	Truck Loading Area - North															
19	TRUCK_S	Truck Loading Area - South															
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI															
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP															
22	5D	Phase 5 - Concrete Debris (DPM)															
23	6D	Phase 6 - Fill to Final Grade (DPM)															
24	8D	Phase 8 - City Parcel (DPM)															
25	9D	Phase 7 - South Coast Oil Corporation - DPM															
26	HAUL_ND	Haul Road - North															
27	HAUL_SD	Haul Road - South															
28	STKP_LND	Stockpile Loading Area - North															
29	STKP_LSD	Stockpile Loading Area - South															
30	OFF_N	Offsite Truck Emissions - North															
31	OFF_S	Offsite Truck - South															

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

			Chemical Name	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Methylene Chloride	Trichlorofluoromethane	Selenium
			CAS No.	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6	75-09-2	75-69-4	7782-49-2
		Non-Pit F	UCL Concentration (mg/kg)[a]	2.4E+01	2.3E+00	9.9E+00	3.7E+02	5.7E-01	1.3E+00	5.3E+01	1.0E+01	4.9E+02	4.7E+01	2.0E+02	6.5E-03	5.7E-02	4.7E+00
		Pit F	UCL Concentration (mg/kg)[a]			1.2E+00	7.3E+01		1.5E-01	3.2E+00		1.2E+01	7.0E+00	2.4E+01			2.5E-02
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**														
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	7.6E-03	7.3E-04	3.1E-03	1.1E-01	1.8E-04	4.0E-04	1.7E-02	3.2E-03	1.5E-01	1.5E-02	6.3E-02	2.0E-06	1.8E-05	1.5E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	3.1E-03	3.0E-04	1.3E-03	4.7E-02	7.4E-05	1.7E-04	6.9E-03	1.3E-03	6.3E-02	6.0E-03	2.6E-02	8.4E-07	7.4E-06	6.0E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01			2.0E-05	1.2E-03		2.5E-06	5.2E-05		2.0E-04	1.1E-04	3.9E-04			4.1E-07
4	3_1	Phase 3.1 - Support Berm	1.0E+02	2.5E-03	2.4E-04	1.0E-03	3.8E-02	6.0E-05	1.3E-04	5.6E-03	1.1E-03	5.1E-02	4.9E-03	2.1E-02	6.8E-07	5.9E-06	4.9E-04
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	6.5E-02	6.2E-03	2.6E-02	9.8E-01	1.5E-03	3.5E-03	1.4E-01	2.7E-02	1.3E+00	1.3E-01	5.4E-01	1.7E-05	1.5E-04	1.2E-02
6	4_1	Phase 4 - Treatment Cell															
7	5	Phase 5 - Concrete Debris	2.0E+02	4.8E-03	4.6E-04	2.0E-03	7.3E-02	1.1E-04	2.5E-04	1.1E-02	2.0E-03	9.7E-02	9.3E-03	4.0E-02	1.3E-06	1.1E-05	9.2E-04
8	6	Phase 6 - Fill to Final Grade															
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	8.8E-04	8.4E-05	3.6E-04	1.3E-02	2.1E-05	4.7E-05	1.9E-03	3.7E-04	1.8E-02	1.7E-03	7.3E-03	2.4E-07	2.1E-06	1.7E-04
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	1.6E-03	1.5E-04	6.5E-04	2.4E-02	3.8E-05	8.5E-05	3.5E-03	6.7E-04	3.2E-02	3.1E-03	1.3E-02	4.3E-07	3.8E-06	3.1E-04
11	8	Phase 8 - City Parcel	1.3E+02	3.1E-03	2.9E-04	1.2E-03	4.6E-02	7.2E-05	1.6E-04	6.7E-03	1.3E-03	6.1E-02	5.9E-03	2.5E-02	8.2E-07	7.1E-06	5.8E-04
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	3.1E-03	2.9E-04	1.2E-03	4.6E-02	7.2E-05	1.6E-04	6.7E-03	1.3E-03	6.2E-02	5.9E-03	2.5E-02	8.2E-07	7.2E-06	5.9E-04
13	10	Phase 10 - Site Restoration															
14	HAUL_N	Haul Road - North	2.8E+02	6.7E-03	6.4E-04	2.7E-03	1.0E-01	1.6E-04	3.5E-04	1.5E-02	2.8E-03	1.4E-01	1.3E-02	5.5E-02	1.8E-06	1.6E-05	1.3E-03
15	HAUL_S	Haul Road - South	1.8E+02	4.3E-03	4.1E-04	1.8E-03	6.5E-02	1.0E-04	2.3E-04	9.5E-03	1.8E-03	8.7E-02	8.3E-03	3.6E-02	1.2E-06	1.0E-05	8.3E-04
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	2.2E-04	2.1E-05	9.0E-05	3.3E-03	5.2E-06	1.2E-05	4.9E-04	9.3E-05	4.5E-03	4.3E-04	1.8E-03	5.9E-08	5.2E-07	4.2E-05
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	2.1E-04	2.0E-05	8.3E-05	3.1E-03	4.8E-06	1.1E-05	4.5E-04	8.6E-05	4.1E-03	3.9E-04	1.7E-03	5.5E-08	4.8E-07	3.9E-05
18	TRUCK_N	Truck Loading Area - North															
19	TRUCK_S	Truck Loading Area - South															
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI															
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP															
22	5D	Phase 5 - Concrete Debris (DPM)															
23	6D	Phase 6 - Fill to Final Grade (DPM)															
24	8D	Phase 8 - City Parcel (DPM)															
25	9D	Phase 7 - South Coast Oil Corporation - DPM															
26	HAUL_ND	Haul Road - North															
27	HAUL_SD	Haul Road - South															
28	STKP_LND	Stockpile Loading Area - North															
29	STKP_LSD	Stockpile Loading Area - South															
30	OFF_N	Offsite Truck Emissions - North															
31	OFF_S	Offsite Truck - South															

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

			Chemical Name	Organic Lead	2-Butanone	Acenaphthene	Di-n-butyl phthalate	Phenanthrene	Fluorene	Naphthalene	2-Methylnaphthalene	o-Xylene	1,2-Dichlorobenzene
			CAS No.	78-00-2	78-93-3	83-32-9	84-74-2	85-01-8	86-73-7	91-20-3	91-57-6	95-47-6	95-50-1
		Non-Pit F	UCL Concentration (mg/kg)[a]	4.1E-01	1.5E-02	2.3E+00	4.3E-01	1.0E+02	2.1E+00	1.2E+00	5.0E+00	1.5E-01	3.5E-01
		Pit F	UCL Concentration (mg/kg)[a]	4.4E-02	4.3E+00			5.5E+04		1.7E+02			
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**										
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	1.3E-04	4.7E-06	7.2E-04	1.3E-04	3.2E-02	6.6E-04	3.9E-04	1.6E-03	4.7E-05	1.1E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	5.3E-05	1.9E-06	3.0E-04	5.5E-05	1.3E-02	2.7E-04	1.6E-04	6.4E-04	1.9E-05	4.5E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01	7.2E-07	7.0E-05			9.0E-01		2.8E-03			
4	3_1	Phase 3.1 - Support Berm	1.0E+02	4.3E-05	1.6E-06	2.4E-04	4.4E-05	1.1E-02	2.2E-04	1.3E-04	5.2E-04	1.6E-05	3.7E-05
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	1.1E-03	4.0E-05	6.2E-03	1.1E-03	2.8E-01	5.6E-03	3.3E-03	1.3E-02	4.0E-04	9.4E-04
6	4_1	Phase 4 - Treatment Cell											
7	5	Phase 5 - Concrete Debris	2.0E+02	8.1E-05	3.0E-06	4.6E-04	8.4E-05	2.0E-02	4.2E-04	2.4E-04	9.8E-04	3.0E-05	6.9E-05
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	1.5E-05	5.4E-07	8.3E-05	1.5E-05	3.7E-03	7.6E-05	4.5E-05	1.8E-04	5.5E-06	1.3E-05
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	2.7E-05	9.9E-07	1.5E-04	2.8E-05	6.8E-03	1.4E-04	8.2E-05	3.3E-04	1.0E-05	2.3E-05
11	8	Phase 8 - City Parcel	1.3E+02	5.2E-05	1.9E-06	2.9E-04	5.3E-05	1.3E-02	2.6E-04	1.6E-04	6.2E-04	1.9E-05	4.4E-05
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	5.2E-05	1.9E-06	2.9E-04	5.3E-05	1.3E-02	2.6E-04	1.6E-04	6.2E-04	1.9E-05	4.4E-05
13	10	Phase 10 - Site Restoration											
14	HAUL_N	Haul Road - North	2.8E+02	1.1E-04	4.1E-06	6.3E-04	1.2E-04	2.8E-02	5.8E-04	3.4E-04	1.4E-03	4.2E-05	9.6E-05
15	HAUL_S	Haul Road - South	1.8E+02	7.3E-05	2.7E-06	4.1E-04	7.5E-05	1.8E-02	3.7E-04	2.2E-04	8.8E-04	2.7E-05	6.2E-05
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	3.7E-06	1.4E-07	2.1E-05	3.9E-06	9.4E-04	1.9E-05	1.1E-05	4.5E-05	1.4E-06	3.2E-06
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	3.5E-06	1.3E-07	1.9E-05	3.6E-06	8.7E-04	1.8E-05	1.0E-05	4.2E-05	1.3E-06	3.0E-06
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI											
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP											
22	5D	Phase 5 - Concrete Debris (DPM)											
23	6D	Phase 6 - Fill to Final Grade (DPM)											
24	8D	Phase 8 - City Parcel (DPM)											
25	9D	Phase 7 - South Coast Oil Corporation - DPM											
26	HAUL_ND	Haul Road - North											
27	HAUL_SD	Haul Road - South											
28	STKP_LND	Stockpile Loading Area - North											
29	STKP_LSD	Stockpile Loading Area - South											
30	OFF_N	Offsite Truck Emissions - North											
31	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	1,2,4-Trimethylbenzene	1-METHYLETHYLBENZENE	p-Isopropyltoluene	2-PROPYL-1-HEPTANOL	Heptachlor epoxide	Endosulfan sulfate	2,4-Dimethylphenol	P-XYLENE
		CAS No.	95-63-6	98-82-8	99-87-6	10042-59-8	1024-57-3	1031-07-8	105-67-9	106-42-3
	Non-Pit F	UCL Concentration (mg/kg)[a]	1.2E+00	3.9E-01	3.5E-01	0.0E+00	3.2E-02	4.3E-03	0.0E+00	5.6E-02
	Pit F	UCL Concentration (mg/kg)[a]	2.5E+00							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	3.7E-04	1.2E-04	1.1E-04		1.0E-05	1.3E-06	1.8E-05
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	1.5E-04	5.0E-05	4.5E-05		4.1E-06	5.5E-07	7.2E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01	4.1E-05						
4	3_1	Phase 3.1 - Support Berm	1.0E+02	1.2E-04	4.0E-05	3.6E-05		3.3E-06	4.5E-07	5.8E-06
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	3.1E-03	1.0E-03	9.2E-04		8.6E-05	1.2E-05	1.5E-04
6	4_1	Phase 4 - Treatment Cell								
7	5	Phase 5 - Concrete Debris	2.0E+02	2.3E-04	7.6E-05	6.8E-05		6.3E-06	8.5E-07	1.1E-05
8	6	Phase 6 - Fill to Final Grade								
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	4.2E-05	1.4E-05	1.3E-05		1.2E-06	1.6E-07	2.0E-06
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	7.7E-05	2.5E-05	2.3E-05		2.1E-06	2.8E-07	3.7E-06
11	8	Phase 8 - City Parcel	1.3E+02	1.5E-04	4.8E-05	4.3E-05		4.0E-06	5.4E-07	7.0E-06
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	1.5E-04	4.9E-05	4.3E-05		4.0E-06	5.4E-07	7.0E-06
13	10	Phase 10 - Site Restoration								
14	HAUL_N	Haul Road - North	2.8E+02	3.2E-04	1.1E-04	9.5E-05		8.8E-06	1.2E-06	1.5E-05
15	HAUL_S	Haul Road - South	1.8E+02	2.1E-04	6.9E-05	6.1E-05		5.7E-06	7.6E-07	9.9E-06
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	1.1E-05	3.5E-06	3.1E-06		2.9E-07	3.9E-08	5.1E-07
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	9.8E-06	3.3E-06	2.9E-06		2.7E-07	3.6E-08	4.7E-07
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI								
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP								
22	5D	Phase 5 - Concrete Debris (DPM)								
23	6D	Phase 6 - Fill to Final Grade (DPM)								
24	8D	Phase 8 - City Parcel (DPM)								
25	9D	Phase 7 - South Coast Oil Corporation - DPM								
26	HAUL_ND	Haul Road - North								
27	HAUL_SD	Haul Road - South								
28	STKP_LND	Stockpile Loading Area - North								
29	STKP_LSD	Stockpile Loading Area - South								
30	OFF_N	Offsite Truck Emissions - North								
31	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	4-Chlorotoluene	1,4-Dichlorobenzene	1,2-Dibromoethane	1,2-Dichloroethane	M-XYLENE	Chlorobenzene	Aroclor 1254	1,2,4-Trichlorobenzene
		CAS No.	106-43-4	106-46-7	106-93-4	107-06-2	108-38-3	108-90-7	11097-69-1	120-82-1
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	6.1E-03	0.0E+00	6.5E-01	2.0E-03	1.5E-02	1.0E-03
	Pit F	UCL Concentration (mg/kg)[a]								

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/year)							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02			1.9E-06		2.0E-04	6.3E-07	4.7E-06	3.1E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02			7.9E-07		8.4E-05	2.6E-07	1.9E-06	1.3E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01								
4	3_1	Phase 3.1 - Support Berm	1.0E+02			6.4E-07		6.8E-05	2.1E-07	1.6E-06	1.0E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03			1.6E-05		1.7E-03	5.4E-06	4.0E-05	2.7E-06
6	4_1	Phase 4 - Treatment Cell									
7	5	Phase 5 - Concrete Debris	2.0E+02			1.2E-06		1.3E-04	4.0E-07	3.0E-06	2.0E-07
8	6	Phase 6 - Fill to Final Grade									
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01			2.2E-07		2.4E-05	7.3E-08	5.4E-07	3.6E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01			4.0E-07		4.3E-05	1.3E-07	9.9E-07	6.6E-08
11	8	Phase 8 - City Parcel	1.3E+02			7.6E-07		8.1E-05	2.5E-07	1.9E-06	1.3E-07
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02			7.7E-07		8.2E-05	2.5E-07	1.9E-06	1.3E-07
13	10	Phase 10 - Site Restoration									
14	HAUL_N	Haul Road - North	2.8E+02			1.7E-06		1.8E-04	5.5E-07	4.1E-06	2.8E-07
15	HAUL_S	Haul Road - South	1.8E+02			1.1E-06		1.2E-04	3.6E-07	2.7E-06	1.8E-07
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00			5.5E-08		5.9E-06	1.8E-08	1.4E-07	9.1E-09
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00			5.1E-08		5.5E-06	1.7E-08	1.3E-07	8.4E-09
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI									
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP									
22	5D	Phase 5 - Concrete Debris (DPM)									
23	6D	Phase 6 - Fill to Final Grade (DPM)									
24	8D	Phase 8 - City Parcel (DPM)									
25	9D	Phase 7 - South Coast Oil Corporation - DPM									
26	HAUL_ND	Haul Road - North									
27	HAUL_SD	Haul Road - South									
28	STKP_LND	Stockpile Loading Area - North									
29	STKP_LSD	Stockpile Loading Area - South									
30	OFF_N	Offsite Truck Emissions - North									
31	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	HEXANEDIOIC ACID, DIOCTYL ESTER	Aroclor 1248	Aroclor 1016	Tetrachloroethene	Chlordane	Dibenzofuran	6-METHYL-1,1-HEPTANOL	Chromium (VI)
		CAS No.	123-79-5	12672-29-6	12674-11-2	127-18-4	12789-03-6	132-64-9	1653-40-3	18540-29-9
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	0.0E+00	7.8E-03	1.4E+00	0.0E+00	0.0E+00	7.3E-01
	Pit F	UCL Concentration (mg/kg)[a]								2.5E-01
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02			2.4E-06	4.4E-04			2.3E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02			1.0E-06	1.8E-04			9.4E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01							4.1E-06
4	3_1	Phase 3.1 - Support Berm	1.0E+02			8.1E-07	1.5E-04			7.6E-05
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03			2.1E-05	3.8E-03			2.0E-03
6	4_1	Phase 4 - Treatment Cell								
7	5	Phase 5 - Concrete Debris	2.0E+02			1.5E-06	2.8E-04			1.4E-04
8	6	Phase 6 - Fill to Final Grade								
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01			2.8E-07	5.1E-05			2.6E-05
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01			5.1E-07	9.2E-05			4.8E-05
11	8	Phase 8 - City Parcel	1.3E+02			9.8E-07	1.8E-04			9.2E-05
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02			9.8E-07	1.8E-04			9.2E-05
13	10	Phase 10 - Site Restoration								
14	HAUL_N	Haul Road - North	2.8E+02			2.1E-06	3.9E-04			2.0E-04
15	HAUL_S	Haul Road - South	1.8E+02			1.4E-06	2.5E-04			1.3E-04
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00			7.1E-08	1.3E-05			6.6E-06
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00			6.6E-08	1.2E-05			6.2E-06
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI								
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP								
22	5D	Phase 5 - Concrete Debris (DPM)								
23	6D	Phase 6 - Fill to Final Grade (DPM)								
24	8D	Phase 8 - City Parcel (DPM)								
25	9D	Phase 7 - South Coast Oil Corporation - DPM								
26	HAUL_ND	Haul Road - North								
27	HAUL_SD	Haul Road - South								
28	STKP_LND	Stockpile Loading Area - North								
29	STKP_LSD	Stockpile Loading Area - South								
30	OFF_N	Offsite Truck Emissions - North								
31	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	(1,1-DIMETHYLBUTYL)BENZENE	(1,1-DIMETHYLPROPYL)BENZENE	Benzo(k)fluoranthene	Acenaphthylene	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE
		CAS No.	1985-57-5	2049-95-8	207-08-9	208-96-8	22531-20-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	1.4E-01	2.0E-03	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]					

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/year)				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02		4.4E-05	6.3E-07	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02		1.8E-05	2.6E-07	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01				
4	3_1	Phase 3.1 - Support Berm	1.0E+02		1.5E-05	2.1E-07	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03		3.8E-04	5.4E-06	
6	4_1	Phase 4 - Treatment Cell					
7	5	Phase 5 - Concrete Debris	2.0E+02		2.8E-05	4.0E-07	
8	6	Phase 6 - Fill to Final Grade					
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01		5.1E-06	7.3E-08	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01		9.2E-06	1.3E-07	
11	8	Phase 8 - City Parcel	1.3E+02		1.8E-05	2.5E-07	
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02		1.8E-05	2.5E-07	
13	10	Phase 10 - Site Restoration					
14	HAUL_N	Haul Road - North	2.8E+02		3.9E-05	5.5E-07	
15	HAUL_S	Haul Road - South	1.8E+02		2.5E-05	3.6E-07	
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00		1.3E-06	1.8E-08	
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00		1.2E-06	1.7E-08	
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI					
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP					
22	5D	Phase 5 - Concrete Debris (DPM)					
23	6D	Phase 6 - Fill to Final Grade (DPM)					
24	8D	Phase 8 - City Parcel (DPM)					
25	9D	Phase 7 - South Coast Oil Corporation - DPM					
26	HAUL_ND	Haul Road - North					
27	HAUL_SD	Haul Road - South					
28	STKP_LND	Stockpile Loading Area - North					
29	STKP_LSD	Stockpile Loading Area - South					
30	OFF_N	Offsite Truck Emissions - North					
31	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	ISOOCTANOL	(1-METHYLBUTYL)BENZENE	2-CYCLOHEXYLDECANE	alpha-BHC	Endosulfan II	1-METHYLETHYLCYCLOPENTANE
		CAS No.	22975-62-8	26952-21-6	2719-52-0	2883-05-8	319-84-6	33213-65-9	3875-51-2
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-03	1.1E-02	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02				8.5E-07	3.4E-06	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02				3.5E-07	1.4E-06	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01						
4	3_1	Phase 3.1 - Support Berm	1.0E+02				2.8E-07	1.1E-06	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03				7.2E-06	2.9E-05	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	2.0E+02				5.3E-07	2.2E-06	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01				9.8E-08	4.0E-07	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01				1.8E-07	7.3E-07	
11	8	Phase 8 - City Parcel	1.3E+02				3.4E-07	1.4E-06	
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02				3.4E-07	1.4E-06	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.8E+02				7.4E-07	3.0E-06	
15	HAUL_S	Haul Road - South	1.8E+02				4.8E-07	2.0E-06	
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00				2.5E-08	1.0E-07	
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00				2.3E-08	9.3E-08	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	1-ETHYL-4-(1-METHYLETHYL)BENZENE	OCTAHYDROINDENE	GAMMA-CHLORDANE	1,2,3,5-TETRAMETHYLBENZENE	Aroclor 1242	Endrin ketone	(1-PROPENYL)CYCLOHEXANE
		CAS No.	4218-48-8	496-10-6	5103-74-2	527-53-7	53469-21-9	53494-70-5	5364-83-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.4E-03	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02		5.3E-06			7.5E-07	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02		2.2E-06			3.1E-07	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01						
4	3_1	Phase 3.1 - Support Berm	1.0E+02		1.8E-06			2.5E-07	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03		4.6E-05			6.4E-06	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	2.0E+02		3.4E-06			4.7E-07	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01		6.2E-07			8.7E-08	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01		1.1E-06			1.6E-07	
11	8	Phase 8 - City Parcel	1.3E+02		2.1E-06			3.0E-07	
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02		2.1E-06			3.0E-07	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.8E+02		4.7E-06			6.6E-07	
15	HAUL_S	Haul Road - South	1.8E+02		3.0E-06			4.3E-07	
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00		1.5E-07			2.2E-08	
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00		1.4E-07			2.0E-08	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	Dibenz(a,h)anthracene	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	gamma-BHC (Lindane)	2-Hexanone	Dieldrin	Benzoic acid
		CAS No.	53-70-3	54340-86-2	5557-93-7	58-89-9	591-78-6	60-57-1	65-85-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	1.7E+00	0.0E+00	0.0E+00	6.5E-02	3.4E-03	3.1E-02	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	5.3E-04		2.0E-05	1.1E-06	9.7E-06	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	2.2E-04		8.4E-06	4.4E-07	4.0E-06	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01						
4	3_1	Phase 3.1 - Support Berm	1.0E+02	1.8E-04		6.8E-06	3.5E-07	3.2E-06	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	4.6E-03		1.7E-04	9.1E-06	8.3E-05	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	2.0E+02	3.4E-04		1.3E-05	6.7E-07	6.1E-06	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	6.2E-05		2.4E-06	1.2E-07	1.1E-06	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	1.1E-04		4.3E-06	2.2E-07	2.0E-06	
11	8	Phase 8 - City Parcel	1.3E+02	2.1E-04		8.1E-06	4.3E-07	3.9E-06	
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	2.1E-04		8.2E-06	4.3E-07	3.9E-06	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.8E+02	4.7E-04		1.8E-05	9.4E-07	8.5E-06	
15	HAUL_S	Haul Road - South	1.8E+02	3.0E-04		1.2E-05	6.0E-07	5.5E-06	
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	1.5E-05		5.9E-07	3.1E-08	2.8E-07	
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	1.4E-05		5.5E-07	2.9E-08	2.6E-07	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	Chloroform	1,1,1-Trichloroethane	Methoxychlor	Bromoform	1,1-Dichloroethane	1,1-Dichloroethene
		CAS No.	67-66-3	71-55-6	72-43-5	75-25-2	75-34-3	75-35-4
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	5.3E-03	0.0E+00	0.0E+00	4.3E-03
	Pit F	UCL Concentration (mg/kg)[a]						
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02		1.7E-06			1.3E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02		6.8E-07			5.5E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01					
4	3_1	Phase 3.1 - Support Berm	1.0E+02		5.5E-07			4.5E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03		1.4E-05			1.2E-05
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	2.0E+02		1.0E-06			8.5E-07
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01		1.9E-07			1.6E-07
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01		3.5E-07			2.8E-07
11	8	Phase 8 - City Parcel	1.3E+02		6.6E-07			5.4E-07
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02		6.7E-07			5.4E-07
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.8E+02		1.5E-06			1.2E-06
15	HAUL_S	Haul Road - South	1.8E+02		9.4E-07			7.6E-07
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00		4.8E-08			3.9E-08
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00		4.5E-08			3.6E-08
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	1,1,2-Trichloro-1,2,2-Trifluoroethane	Heptachlor	1,1,2,2-Tetrachloroethane	BENZYL BUTYL PHTHALATE	N-Nitrosodiphenylamine	1,2,3-Trichlorobenzene
		CAS No.	76-13-1	76-44-8	79-34-5	85-68-7	86-30-6	87-61-6
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	2.9E-02	2.9E-03	6.3E-01	0.0E+00	1.3E-03
	Pit F	UCL Concentration (mg/kg)[a]						

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/year)					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02		9.1E-06	9.1E-07	2.0E-04	4.1E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02		3.7E-06	3.7E-07	8.1E-05	1.7E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01					
4	3_1	Phase 3.1 - Support Berm	1.0E+02		3.0E-06	3.0E-07	6.6E-05	1.4E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03		7.8E-05	7.8E-06	1.7E-03	3.5E-06
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	2.0E+02		5.7E-06	5.7E-07	1.2E-04	2.6E-07
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01		1.1E-06	1.1E-07	2.3E-05	4.7E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01		1.9E-06	1.9E-07	4.2E-05	8.6E-08
11	8	Phase 8 - City Parcel	1.3E+02		3.6E-06	3.6E-07	7.9E-05	1.6E-07
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02		3.6E-06	3.6E-07	7.9E-05	1.6E-07
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.8E+02		8.0E-06	8.0E-07	1.7E-04	3.6E-07
15	HAUL_S	Haul Road - South	1.8E+02		5.1E-06	5.1E-07	1.1E-04	2.3E-07
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00		2.6E-07	2.6E-08	5.7E-06	1.2E-08
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00		2.4E-07	2.4E-08	5.3E-06	1.1E-08
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

	Chemical Name	DECAHYDRONAPHTHALENE
	CAS No.	91-17-8
Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00
Pit F	UCL Concentration (mg/kg)[a]	

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/year)
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01
4	3_1	Phase 3.1 - Support Berm	1.0E+02
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03
6	4_1	Phase 4 - Treatment Cell	
7	5	Phase 5 - Concrete Debris	2.0E+02
8	6	Phase 6 - Fill to Final Grade	
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01
11	8	Phase 8 - City Parcel	1.3E+02
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02
13	10	Phase 10 - Site Restoration	
14	HAUL_N	Haul Road - North	2.8E+02
15	HAUL_S	Haul Road - South	1.8E+02
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00
18	TRUCK_N	Truck Loading Area - North	
19	TRUCK_S	Truck Loading Area - South	
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI	
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP	
22	5D	Phase 5 - Concrete Debris (DPM)	
23	6D	Phase 6 - Fill to Final Grade (DPM)	
24	8D	Phase 8 - City Parcel (DPM)	
25	9D	Phase 7 - South Coast Oil Corporation - DPM	
26	HAUL_ND	Haul Road - North	
27	HAUL_SD	Haul Road - South	
28	STKP_LND	Stockpile Loading Area - North	
29	STKP_LSD	Stockpile Loading Area - South	
30	OFF_N	Offsite Truck Emissions - North	
31	OFF_S	Offsite Truck - South	

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Annual)

		Chemical Name	3,3'-DICHLOROBENZIDINE	Benzidine	1,1,4-6-TETRAMETHYLINDANE	1,2-Dibromo-3-Chloropropane	tert-Butylbenzene	Crystalline Silica
		CAS No.	91-94-1	92-87-5	941-60-6	96-12-8	98-06-6	7631-86-9
	Non-Pit F	UCL Concentration (mg/kg)[a]	8.2E-02	0.0E+00	0.0E+00	5.9E-03	0.0E+00	2.8E+05
	Pit F	UCL Concentration (mg/kg)[a]						
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/year)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	3.1E+02	2.6E-05		1.8E-06		
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.3E+02	1.1E-05		7.6E-07		
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.6E+01					
4	3_1	Phase 3.1 - Support Berm	1.0E+02	8.6E-06		6.2E-07		
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	2.7E+03	2.2E-04		1.6E-05		
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	2.0E+02	1.6E-05		1.2E-06		3.7E+01
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	3.6E+01	3.0E-06		2.1E-07		
10	7_2	Phase 7 - Surface Water Control (2 of 2)	6.6E+01	5.4E-06		3.9E-07		
11	8	Phase 8 - City Parcel	1.3E+02	1.0E-05		7.4E-07		
12	9	Phase 9 - South Coast Oil Corporation	1.3E+02	1.0E-05		7.4E-07		
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.8E+02	2.3E-05		1.6E-06		
15	HAUL_S	Haul Road - South	1.8E+02	1.5E-05		1.0E-06		
16	STKP_L_N	Stockpile Loading Area - North	9.1E+00	7.5E-07		5.4E-08		
17	STKP_L_S	Stockpile Loading Area - South	8.4E+00	6.9E-07		5.0E-08		
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Formatting (Hourly) - Alternative 4

			Total PM10 Emissions Inventory (lbs/hour)a					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	Phase	Subphase	Silica	Fugitive Dust	Fugitive Dust	DPM	Road Dust	Idle_DPM
1.1	Mobilization	Maintain haul roads for duration of project						
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade			2.9E-01	9.8E-05	7.2E-02	8.9E-04
2.2	Pit F	Traffic Control and Temporary Fencing						
2.3	Pit F	Assemble Sprung Structure						
2.4	Pit F	Slurry Trench Excavation(waste in bins)		7.3E-03				
2.5	Pit F	Transport and Dispose of Impacted Material				7.8E-04	2.3E-01	1.8E-03
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5		4.1E-03		1.0E-03	3.6E-01	2.7E-03
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste		4.6E-02	3.0E-01	6.5E-05	1.6E+00	1.2E-03
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile						
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY						
4.1	Treatment Cell	Process VOC-impacted material						
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		2.5E-01					
6.1	Fill to Final Grade					5.9E-03	3.5E+00	2.1E-02
7.1	Surface Water Controls	Cut and Backfill						
7.2	Surface Water Controls	Install V-Ditches						
8.1	City Parcel	Cut and Backfill		4.2E-02				
8.2	City Parcel	Utility Poles		3.7E-05				
9.1	South Coast Oil Corporation	Cut		4.0E-02				
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade				2.7E-04	1.2E+00	8.9E-04
10.1	Site Restoration							

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in the HRA.

ASCON HRA - Health Risk Assessment

Emissions Formatting (Hourly) - Alternative 4

			Total PM10 Emissions Inventory (lbs/hour)a							
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]
Phase No.	Phase	Subphase	DPM	DPM	Road Dust	Idle_DPM	Fugitive Dust	Fugitive Dust	DPM	DPM
1.1	Mobilization	Maintain haul roads for duration of project	7.2E-02	6.2E-04	1.8E-01	1.8E-03				
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	1.6E-01	6.2E-04	1.8E-01	1.8E-03	3.3E-05	1.3E-05	2.0E-04	1.2E-04
2.2	Pit F	Traffic Control and Temporary Fencing	8.0E-02	6.2E-04	1.8E-01	1.8E-03				
2.3	Pit F	Assemble Sprung Structure	4.9E-02							
2.4	Pit F	Slurry Trench Excavation(waste in bins)	3.2E-01	3.7E-04	2.2E-01	2.7E-03				
2.5	Pit F	Transport and Dispose of Impacted Material	0.0E+00						4.0E-04	2.5E-04
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	2.3E-01	1.9E-03	5.5E-01	5.4E-03	3.3E-05	1.3E-05	6.0E-04	3.7E-04
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste	6.3E-01	1.2E-03	3.1E+00	1.2E-02			5.7E-04	3.5E-04
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	1.1E-01	6.2E-04	1.8E-01	1.8E-03				
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY	0.0E+00							
4.1	Treatment Cell	Process VOC-impacted material	7.8E-02							
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		4.1E-02	1.2E-03	3.7E-01	3.6E-03				
6.1	Fill to Final Grade		7.1E-02	6.2E-04	1.8E-01	1.8E-03			4.6E-03	2.8E-03
7.1	Surface Water Controls	Cut and Backfill	7.1E-02	6.2E-04	1.8E-01	1.8E-03				
7.2	Surface Water Controls	Install V-Ditches	4.1E-02	1.2E-03	3.7E-01	3.6E-03				
8.1	City Parcel	Cut and Backfill	2.4E-01	1.2E-03	3.1E+00	1.2E-02				
8.2	City Parcel	Utility Poles	0.0E+00	1.2E-03	3.7E-01	3.6E-03				
9.1	South Coast Oil Corporation	Cut	5.6E-01	1.2E-03	3.1E+00	1.2E-02				
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade	7.1E-02	6.2E-04	1.8E-01	1.8E-03			4.3E-04	2.6E-04
10.1	Site Restoration		3.5E-02							

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Hourly) - Alternative 4

Phase No.	Phase	Subphase
1.1	**Mobilization**	Maintain haul roads for duration of project
2.1	**Pit F**	Clear and grub, prepare haul roads, lay-down areas, initial grade
2.2	**Pit F**	Traffic Control and Temporary Fencing
2.3	**Pit F**	Assemble Sprung Structure
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)
2.5	**Pit F**	Transport and Dispose of Impacted Material
3.1	**Cut/Fill to Top of Waste**	Install slurry wall at lagoons 4 and 5
3.2	**Cut/Fill to Top of Waste**	Cut/Fill to top of waste
3.3	**Cut/Fill to Top of Waste**	Place waste in treatment cell or stockpile
3.4	**Cut/Fill to Top of Waste**	Excavate stockpile and export up to 30,000 BCY
4.1	**Treatment Cell**	Process VOC-impacted material
5.1	**Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill**	
6.1	**Fill to Final Grade**	
7.1	**Surface Water Controls**	Cut and Backfill
7.2	**Surface Water Controls**	Install V-Ditches
8.1	**City Parcel**	Cut and Backfill
8.2	**City Parcel**	Utility Poles
9.1	**South Coast Oil Corporation**	Cut
9.2	**South Coast Oil Corporation**	Backfill to Top of Final Grade
10.1	**Site Restoration**	

Step 3 - Allocate emissions for individual AERMOD sources

Off-site Truck Haul Path /	Excavation		North Haul Road		South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)
Stockpile Area	Area Wide	Stockpile	DPM	Dust	DPM	Dust	Loading	Wash	Loading	Wash	DPM	Dust	Dust	Concrete	DPM
											7.5E-02	1.8E-01	0.0E+00	0.0E+00	0.0E+00
North			9.8E-05	7.2E-02			4.5E-04	4.5E-04			1.6E-01	1.8E-01	2.9E-01	0.0E+00	2.0E-04
											8.2E-02	1.8E-01	0.0E+00	0.0E+00	0.0E+00
											4.9E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	3.7E-03	3.7E-03									3.3E-01	2.2E-01	0.0E+00	0.0E+00	0.0E+00
North			7.8E-04	2.3E-01			8.9E-04	8.9E-04			0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.0E-04
North	2.1E-03	2.1E-03	1.0E-03	3.6E-01			1.3E-03	1.3E-03			2.4E-01	5.5E-01	4.7E-05	0.0E+00	6.0E-04
50/50	2.3E-02	2.3E-02	3.3E-05	7.8E-01	3.3E-05	7.8E-01	3.0E-04	3.0E-04	3.0E-04	3.0E-04	6.4E-01	3.1E+00	3.0E-01	0.0E+00	5.7E-04
											1.1E-01	1.8E-01	0.0E+00	0.0E+00	0.0E+00
											0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
											7.8E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00
											4.6E-02	3.7E-01	0.0E+00	2.5E-01	0.0E+00
50/50			2.9E-03		2.9E-03		5.1E-03	5.1E-03	5.1E-03	5.1E-03	7.3E-02		0.0E+00	0.0E+00	4.6E-03
											7.3E-02	1.8E-01	0.0E+00	0.0E+00	0.0E+00
											4.6E-02	3.7E-01	0.0E+00	0.0E+00	0.0E+00
	2.1E-02	2.1E-02									2.5E-01	3.1E+00	0.0E+00	0.0E+00	0.0E+00
	1.8E-05	1.8E-05									4.8E-03	3.7E-01	0.0E+00	0.0E+00	0.0E+00
	2.0E-02	2.0E-02									5.7E-01	3.1E+00	0.0E+00	0.0E+00	0.0E+00
50/50			1.3E-04	6.2E-01	1.3E-04	6.2E-01	2.2E-04	2.2E-04	2.2E-04	2.2E-04	7.3E-02	1.8E-01	0.0E+00	0.0E+00	4.3E-04
											3.5E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Hourly) - Alternative 4

			Off-site Haul (South)	Fugitive Dust Emissions (lbs/hour)f					Diesel Particulate Emissions (lbs/hour)f						
Phase No.	Phase	Subphase	DPM	Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South
1.1	Mobilization	Maintain haul roads for duration of project	0.0E+00	1.8E-01			0.0E+00		7.5E-02						
2.1	Pit F	Clear and grub, prepare haul roads, lay-down areas, initial grade	1.2E-04	4.8E-01	7.2E-02		0.0E+00		1.6E-01	9.8E-05		4.5E-04		4.5E-04	
2.2	Pit F	Traffic Control and Temporary Fencing	0.0E+00	1.8E-01			0.0E+00		8.2E-02						
2.3	Pit F	Assemble Sprung Structure	0.0E+00	0.0E+00			0.0E+00		4.9E-02						
2.4	Pit F	Slurry Trench Excavation(waste in bins)	0.0E+00	2.2E-01			3.7E-03		3.3E-01						
2.5	Pit F	Transport and Dispose of Impacted Material	2.5E-04	0.0E+00	2.3E-01					7.8E-04		8.9E-04		8.9E-04	
3.1	Cut/Fill to Top of Waste	Install slurry wall at lagoons 4 and 5	3.7E-04	5.5E-01	3.6E-01		1.0E-03	1.0E-03	2.4E-01	1.0E-03		1.3E-03		1.3E-03	
3.2	Cut/Fill to Top of Waste	Cut/Fill to top of waste	3.5E-04	3.4E+00	7.8E-01	7.8E-01	1.1E-02	1.1E-02	6.4E-01	3.3E-05	3.3E-05	3.0E-04	3.0E-04	3.0E-04	3.0E-04
3.3	Cut/Fill to Top of Waste	Place waste in treatment cell or stockpile	0.0E+00	1.8E-01					1.1E-01						
3.4	Cut/Fill to Top of Waste	Excavate stockpile and export up to 30,000 BCY	0.0E+00	0.0E+00											
4.1	Treatment Cell	Process VOC-impacted material	0.0E+00	0.0E+00					7.8E-02						
5.1	Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill		0.0E+00	3.7E-01					4.6E-02						
6.1	Fill to Final Grade		2.8E-03	0.0E+00	0.0E+00	0.0E+00			7.3E-02	2.9E-03	2.9E-03	5.1E-03	5.1E-03	5.1E-03	5.1E-03
7.1	Surface Water Controls	Cut and Backfill	0.0E+00	1.8E-01					7.3E-02						
7.2	Surface Water Controls	Install V-Ditches	0.0E+00	3.7E-01					4.6E-02						
8.1	City Parcel	Cut and Backfill	0.0E+00	3.1E+00			2.1E-02		2.5E-01						
8.2	City Parcel	Utility Poles	0.0E+00	3.7E-01			1.8E-05		4.8E-03						
9.1	South Coast Oil Corporation	Cut	0.0E+00	3.1E+00			1.0E-02	1.0E-02	5.7E-01						
9.2	South Coast Oil Corporation	Backfill to Top of Final Grade	2.6E-04	1.8E-01	6.2E-01	6.2E-01			7.3E-02	1.3E-04	1.3E-04	2.2E-04	2.2E-04	2.2E-04	2.2E-04
10.1	Site Restoration		0.0E+00	0.0E+00					3.5E-02						

[a] Emissions inventory prepared for Interim Deliverable #2

3

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Formatting (Hourly) - Alternative 4

Phase No.	Phase	Subphase	Off-site Haul (North)	Off-site Haul (South)
1.1	**Mobilization**	Maintain haul roads for duration of project		
2.1	**Pit F**	Clear and grub, prepare haul roads, lay-down areas, initial grade	2.0E-04	1.2E-04
2.2	**Pit F**	Traffic Control and Temporary Fencing		
2.3	**Pit F**	Assemble Sprung Structure		
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)		
2.5	**Pit F**	Transport and Dispose of Impacted Material	4.0E-04	2.5E-04
3.1	**Cut/Fill to Top of Waste**	Install slurry wall at lagoons 4 and 5	6.0E-04	3.7E-04
3.2	**Cut/Fill to Top of Waste**	Cut/Fill to top of waste	5.7E-04	3.5E-04
3.3	**Cut/Fill to Top of Waste**	Place waste in treatment cell or stockpile		
3.4	**Cut/Fill to Top of Waste**	Excavate stockpile and export up to 30,000 BCY		
4.1	**Treatment Cell**	Process VOC-impacted material		
5.1	**Concrete Debris: Consolidate, Reduce and Place as Select Deep Fill**			
6.1	**Fill to Final Grade**		4.6E-03	2.8E-03
7.1	**Surface Water Controls**	Cut and Backfill		
7.2	**Surface Water Controls**	Install V-Ditches		
8.1	**City Parcel**	Cut and Backfill		
8.2	**City Parcel**	Utility Poles		
9.1	**South Coast Oil Corporation**	Cut		
9.2	**South Coast Oil Corporation**	Backfill to Top of Final Grade	4.3E-04	2.6E-04
10.1	**Site Restoration**			

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in t

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	Diesel Particulate	Ethylbenzene	Styrene	n-Propylbenzene	n-Butylbenzene	1,3,5-Trimethylbenzene	Toluene	Phenol	Aroclor 1260	BIS(2-ETHYLHEXYL) PHTHALATE
		CAS No.	9901	100-41-4	100-42-5	103-65-1	104-51-8	108-67-8	108-88-3	108-95-2	11096-82-5	117-81-7
	Non-Pit F	UCL Concentration (mg/kg)[a]	1	8.5E-01	1.2E-01	5.6E-01	6.6E-02	4.0E-01	2.7E-01	1.6E-01	3.8E-02	1.6E+00
	Pit F	UCL Concentration (mg/kg)[a]	1	2.5E+00	2.9E+01							2.0E+02

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/hour)	Diesel Particulate (lbs/hour)								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01		1.6E-07	2.2E-08	1.0E-07	1.2E-08	7.4E-08	5.0E-08	2.9E-08	6.9E-09	2.9E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01		4.1E-07	5.7E-08	2.7E-07	3.1E-08	1.9E-07	1.3E-07	7.6E-08	1.8E-08	7.6E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02	4.6E-01	5.1E-08	5.9E-07							4.1E-06
4	3_1	Phase 3.1 - Support Berm	5.5E-01	2.4E-01	4.7E-07	6.6E-08	3.1E-07	3.6E-08	2.2E-07	1.5E-07	8.8E-08	2.1E-08	8.7E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	7.5E-01	3.0E-06	4.3E-07	2.0E-06	2.4E-07	1.4E-06	9.8E-07	5.7E-07	1.4E-07	5.7E-06
6	4_1	Phase 4 - Treatment Cell		7.8E-02									
7	5	Phase 5 - Concrete Debris	3.7E-01		3.1E-07	4.4E-08	2.1E-07	2.4E-08	1.5E-07	1.0E-07	5.9E-08	1.4E-08	5.8E-07
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	7.3E-02	1.6E-07	2.2E-08	1.0E-07	1.2E-08	7.4E-08	5.0E-08	2.9E-08	6.9E-09	2.9E-07
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	4.6E-02	3.1E-07	4.4E-08	2.1E-07	2.4E-08	1.5E-07	1.0E-07	5.9E-08	1.4E-08	5.8E-07
11	8	Phase 8 - City Parcel	3.5E+00		2.9E-06	4.1E-07	2.0E-06	2.3E-07	1.4E-06	9.4E-07	5.5E-07	1.3E-07	5.5E-06
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00		2.8E-06	3.9E-07	1.8E-06	2.2E-07	1.3E-06	8.9E-07	5.2E-07	1.2E-07	5.2E-06
13	10	Phase 10 - Site Restoration		3.5E-02									
14	HAUL_N	Haul Road - North	2.1E+00		1.8E-06	2.5E-07	1.2E-06	1.4E-07	8.3E-07	5.6E-07	3.3E-07	7.8E-08	3.3E-06
15	HAUL_S	Haul Road - South	1.4E+00		1.2E-06	1.7E-07	7.9E-07	9.2E-08	5.6E-07	3.8E-07	2.2E-07	5.3E-08	2.2E-06
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02		4.0E-08	5.7E-09	2.7E-08	3.1E-09	1.9E-08	1.3E-08	7.6E-09	1.8E-09	7.5E-08
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02		1.9E-08	2.7E-09	1.3E-08	1.5E-09	9.1E-09	6.2E-09	3.6E-09	8.5E-10	3.6E-08
18	TRUCK_N	Truck Loading Area - North		8.3E-03									
19	TRUCK_S	Truck Loading Area - South		5.6E-03									
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI		7.5E-02									
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP		1.6E-01									
22	5D	Phase 5 - Concrete Debris (DPM)		4.6E-02									
23	6D	Phase 6 - Fill to Final Grade (DPM)		7.3E-02									
24	8D	Phase 8 - City Parcel (DPM)		2.6E-01									
25	9D	Phase 7 - South Coast Oil Corporation - DPM		6.4E-01									
26	HAUL_ND	Haul Road - North		5.0E-03									
27	HAUL_SD	Haul Road - South		3.1E-03									
28	STKP_LND	Stockpile Loading Area - North		8.3E-03									
29	STKP_LSD	Stockpile Loading Area - South		5.6E-03									
30	OFF_N	Offsite Truck Emissions - North		6.8E-03									
31	OFF_S	Offsite Truck - South		4.2E-03									

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	Anthracene	Pyrene	XYLENES (TOTAL)	(1-METHYLPROPYL)BENZENE	m,p-Xylenes	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Benzo(b)fluoranthene	Fluoranthene	Chrysene
			CAS No.	120-12-7	129-00-0	1330-20-7	135-98-8	179601-23-1	191-24-2	193-39-5	205-99-2	206-44-0	218-01-9
		Non-Pit F	UCL Concentration (mg/kg)[a]	1.7E+00	4.7E-01	5.5E+00	4.5E-01	8.0E-01	3.4E-02	2.2E-02	3.6E-02	4.2E-01	2.8E-01
		Pit F	UCL Concentration (mg/kg)[a]				2.8E+01					1.1E+03	
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**										
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	3.1E-07	8.6E-08	1.0E-06	8.3E-08	1.5E-07	6.2E-09	4.0E-09	6.5E-09	7.7E-08	5.0E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	8.1E-07	2.2E-07	2.6E-06	2.2E-07	3.8E-07	1.6E-08	1.0E-08	1.7E-08	2.0E-07	1.3E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02				5.7E-07					2.2E-05	
4	3_1	Phase 3.1 - Support Berm	5.5E-01	9.4E-07	2.6E-07	3.0E-06	2.5E-07	4.4E-07	1.9E-08	1.2E-08	2.0E-08	2.3E-07	1.5E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	6.1E-06	1.7E-06	2.0E-05	1.6E-06	2.9E-06	1.2E-07	7.8E-08	1.3E-07	1.5E-06	9.8E-07
6	4_1	Phase 4 - Treatment Cell											
7	5	Phase 5 - Concrete Debris	3.7E-01	6.2E-07	1.7E-07	2.0E-06	1.7E-07	2.9E-07	1.2E-08	8.0E-09	1.3E-08	1.5E-07	1.0E-07
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	3.1E-07	8.6E-08	1.0E-06	8.3E-08	1.5E-07	6.2E-09	4.0E-09	6.5E-09	7.7E-08	5.0E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	6.2E-07	1.7E-07	2.0E-06	1.7E-07	2.9E-07	1.2E-08	8.0E-09	1.3E-08	1.5E-07	1.0E-07
11	8	Phase 8 - City Parcel	3.5E+00	5.9E-06	1.6E-06	1.9E-05	1.6E-06	2.8E-06	1.2E-07	7.5E-08	1.2E-07	1.4E-06	9.5E-07
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	5.6E-06	1.5E-06	1.8E-05	1.5E-06	2.6E-06	1.1E-07	7.1E-08	1.2E-07	1.4E-06	9.0E-07
13	10	Phase 10 - Site Restoration											
14	HAUL_N	Haul Road - North	2.1E+00	3.5E-06	9.7E-07	1.1E-05	9.3E-07	1.7E-06	6.9E-08	4.5E-08	7.3E-08	8.6E-07	5.7E-07
15	HAUL_S	Haul Road - South	1.4E+00	2.4E-06	6.6E-07	7.7E-06	6.4E-07	1.1E-06	4.7E-08	3.0E-08	5.0E-08	5.9E-07	3.9E-07
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	8.0E-08	2.2E-08	2.6E-07	2.1E-08	3.8E-08	1.6E-09	1.0E-09	1.7E-09	2.0E-08	1.3E-08
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	3.8E-08	1.1E-08	1.2E-07	1.0E-08	1.8E-08	7.6E-10	4.9E-10	8.0E-10	9.4E-09	6.2E-09
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI											
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP											
22	5D	Phase 5 - Concrete Debris (DPM)											
23	6D	Phase 6 - Fill to Final Grade (DPM)											
24	8D	Phase 8 - City Parcel (DPM)											
25	9D	Phase 7 - South Coast Oil Corporation - DPM											
26	HAUL_ND	Haul Road - North											
27	HAUL_SD	Haul Road - South											
28	STKP_LND	Stockpile Loading Area - North											
29	STKP_LSD	Stockpile Loading Area - South											
30	OFF_N	Offsite Truck Emissions - North											
31	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	beta-BHC	4,4'-DDT	Benzo(a)pyrene	BENZ[A]ANTHRACENE	2-PROPANONE	Benzene	4,4'-DDD	4,4'-DDE	Endrin aldehyde	Lead	Mercury	Molybdenum	Nickel	Silver
			CAS No.	319-85-7	50-29-3	50-32-8	56-55-3	67-64-1	71-43-2	72-54-8	72-55-9	7421-93-4	7439-92-1	7439-97-6	7439-98-7	7440-02-0	7440-22-4
		Non-Pit F	UCL Concentration (mg/kg)[a]	7.5E-02	5.1E-03	5.6E-01	2.2E-02	7.6E-02	6.8E-02	3.0E-03	7.8E-03	2.1E-03	1.7E+02	2.1E-01	1.4E+00	3.7E+01	4.6E-01
		Pit F	UCL Concentration (mg/kg)[a]					9.5E-01					9.7E+00	1.2E-01		5.2E+00	
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**														
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.4E-08	9.4E-10	1.0E-07	4.0E-09	1.4E-08	1.2E-08	5.5E-10	1.4E-09	3.9E-10	3.1E-05	3.8E-08	2.5E-07	6.8E-06	8.4E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	3.6E-08	2.4E-09	2.7E-07	1.1E-08	3.6E-08	3.3E-08	1.4E-09	3.7E-09	1.0E-09	8.1E-05	1.0E-07	6.6E-07	1.8E-05	2.2E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02					1.9E-08					2.0E-07	2.4E-09		1.1E-07	
4	3_1	Phase 3.1 - Support Berm	5.5E-01	4.1E-08	2.8E-09	3.1E-07	1.2E-08	4.2E-08	3.8E-08	1.7E-09	4.3E-09	1.2E-09	9.3E-05	1.2E-07	7.7E-07	2.0E-05	2.5E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	2.7E-07	1.8E-08	2.0E-06	7.9E-08	2.7E-07	2.4E-07	1.1E-08	2.8E-08	7.6E-09	6.0E-04	7.5E-07	5.0E-06	1.3E-04	1.6E-06
6	4_1	Phase 4 - Treatment Cell															
7	5	Phase 5 - Concrete Debris	3.7E-01	2.7E-08	1.9E-09	2.1E-07	8.1E-09	2.8E-08	2.5E-08	1.1E-09	2.9E-09	7.8E-10	6.2E-05	7.7E-08	5.1E-07	1.4E-05	1.7E-07
8	6	Phase 6 - Fill to Final Grade															
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	1.4E-08	9.4E-10	1.0E-07	4.0E-09	1.4E-08	1.2E-08	5.5E-10	1.4E-09	3.9E-10	3.1E-05	3.8E-08	2.5E-07	6.8E-06	8.4E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	2.7E-08	1.9E-09	2.1E-07	8.1E-09	2.8E-08	2.5E-08	1.1E-09	2.9E-09	7.8E-10	6.2E-05	7.7E-08	5.1E-07	1.4E-05	1.7E-07
11	8	Phase 8 - City Parcel	3.5E+00	2.6E-07	1.8E-08	1.9E-06	7.6E-08	2.6E-07	2.4E-07	1.0E-08	2.7E-08	7.3E-09	5.8E-04	7.3E-07	4.8E-06	1.3E-04	1.6E-06
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	2.5E-07	1.7E-08	1.8E-06	7.2E-08	2.5E-07	2.2E-07	9.9E-09	2.5E-08	6.9E-09	5.5E-04	6.9E-07	4.6E-06	1.2E-04	1.5E-06
13	10	Phase 10 - Site Restoration															
14	HAUL_N	Haul Road - North	2.1E+00	1.5E-07	1.1E-08	1.2E-06	4.5E-08	1.6E-07	1.4E-07	6.2E-09	1.6E-08	4.4E-09	3.5E-04	4.3E-07	2.9E-06	7.6E-05	9.4E-07
15	HAUL_S	Haul Road - South	1.4E+00	1.1E-07	7.2E-09	7.9E-07	3.1E-08	1.1E-07	9.6E-08	4.2E-09	1.1E-08	3.0E-09	2.4E-04	2.9E-07	2.0E-06	5.2E-05	6.4E-07
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	3.5E-09	2.4E-10	2.6E-08	1.0E-09	3.6E-09	3.2E-09	1.4E-10	3.7E-10	1.0E-10	8.0E-06	9.9E-09	6.6E-08	1.8E-06	2.2E-08
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	1.7E-09	1.2E-10	1.3E-08	5.0E-10	1.7E-09	1.5E-09	6.8E-11	1.8E-10	4.8E-11	3.8E-06	4.7E-09	3.1E-08	8.4E-07	1.0E-08
18	TRUCK_N	Truck Loading Area - North															
19	TRUCK_S	Truck Loading Area - South															
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI															
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP															
22	5D	Phase 5 - Concrete Debris (DPM)															
23	6D	Phase 6 - Fill to Final Grade (DPM)															
24	8D	Phase 8 - City Parcel (DPM)															
25	9D	Phase 7 - South Coast Oil Corporation - DPM															
26	HAUL_ND	Haul Road - North															
27	HAUL_SD	Haul Road - South															
28	STKP_LND	Stockpile Loading Area - North															
29	STKP_LSD	Stockpile Loading Area - South															
30	OFF_N	Offsite Truck Emissions - North															
31	OFF_S	Offsite Truck - South															

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Methylene Chloride	Trichlorofluoromethane	Selenium
			CAS No.	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6	75-09-2	75-69-4	7782-49-2
		Non-Pit F	UCL Concentration (mg/kg)[a]	2.4E+01	2.3E+00	9.9E+00	3.7E+02	5.7E-01	1.3E+00	5.3E+01	1.0E+01	4.9E+02	4.7E+01	2.0E+02	6.5E-03	5.7E-02	4.7E+00
		Pit F	UCL Concentration (mg/kg)[a]			1.2E+00	7.3E+01		1.5E-01	3.2E+00		1.2E+01	7.0E+00	2.4E+01			2.5E-02
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**														
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	4.5E-06	4.2E-07	1.8E-06	6.7E-05	1.1E-07	2.4E-07	9.8E-06	1.9E-06	9.0E-05	8.6E-06	3.7E-05	1.2E-09	1.0E-08	8.5E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	1.2E-05	1.1E-06	4.7E-06	1.7E-04	2.7E-07	6.1E-07	2.5E-05	4.9E-06	2.3E-04	2.2E-05	9.6E-05	3.1E-09	2.7E-08	2.2E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02			2.4E-08	1.5E-06		3.1E-09	6.5E-08		2.4E-07	1.4E-07	4.9E-07			5.1E-10
4	3_1	Phase 3.1 - Support Berm	5.5E-01	1.3E-05	1.3E-06	5.4E-06	2.0E-04	3.2E-07	7.1E-07	2.9E-05	5.6E-06	2.7E-04	2.6E-05	1.1E-04	3.6E-09	3.1E-08	2.6E-06
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	8.7E-05	8.3E-06	3.5E-05	1.3E-03	2.1E-06	4.6E-06	1.9E-04	3.6E-05	1.8E-03	1.7E-04	7.2E-04	2.3E-08	2.0E-07	1.7E-05
6	4_1	Phase 4 - Treatment Cell															
7	5	Phase 5 - Concrete Debris	3.7E-01	8.9E-06	8.5E-07	3.6E-06	1.3E-04	2.1E-07	4.7E-07	2.0E-05	3.7E-06	1.8E-04	1.7E-05	7.4E-05	2.4E-09	2.1E-08	1.7E-06
8	6	Phase 6 - Fill to Final Grade															
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	4.5E-06	4.2E-07	1.8E-06	6.7E-05	1.1E-07	2.4E-07	9.8E-06	1.9E-06	9.0E-05	8.6E-06	3.7E-05	1.2E-09	1.0E-08	8.5E-07
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	8.9E-06	8.5E-07	3.6E-06	1.3E-04	2.1E-07	4.7E-07	2.0E-05	3.7E-06	1.8E-04	1.7E-05	7.4E-05	2.4E-09	2.1E-08	1.7E-06
11	8	Phase 8 - City Parcel	3.5E+00	8.4E-05	8.0E-06	3.4E-05	1.3E-03	2.0E-06	4.5E-06	1.8E-04	3.5E-05	1.7E-03	1.6E-04	7.0E-04	2.3E-08	2.0E-07	1.6E-05
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	8.0E-05	7.6E-06	3.2E-05	1.2E-03	1.9E-06	4.2E-06	1.7E-04	3.3E-05	1.6E-03	1.5E-04	6.6E-04	2.1E-08	1.9E-07	1.5E-05
13	10	Phase 10 - Site Restoration															
14	HAUL_N	Haul Road - North	2.1E+00	5.0E-05	4.8E-06	2.0E-05	7.6E-04	1.2E-06	2.7E-06	1.1E-04	2.1E-05	1.0E-03	9.6E-05	4.2E-04	1.3E-08	1.2E-07	9.6E-06
15	HAUL_S	Haul Road - South	1.4E+00	3.4E-05	3.2E-06	1.4E-05	5.1E-04	8.0E-07	1.8E-06	7.5E-05	1.4E-05	6.9E-04	6.6E-05	2.8E-04	9.1E-09	8.0E-08	6.5E-06
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	1.2E-06	1.1E-07	4.7E-07	1.7E-05	2.7E-08	6.1E-08	2.5E-06	4.8E-07	2.3E-05	2.2E-06	9.5E-06	3.1E-10	2.7E-09	2.2E-07
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	5.5E-07	5.2E-08	2.2E-07	8.3E-06	1.3E-08	2.9E-08	1.2E-06	2.3E-07	1.1E-05	1.1E-06	4.5E-06	1.5E-10	1.3E-09	1.0E-07
18	TRUCK_N	Truck Loading Area - North															
19	TRUCK_S	Truck Loading Area - South															
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI															
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP															
22	5D	Phase 5 - Concrete Debris (DPM)															
23	6D	Phase 6 - Fill to Final Grade (DPM)															
24	8D	Phase 8 - City Parcel (DPM)															
25	9D	Phase 7 - South Coast Oil Corporation - DPM															
26	HAUL_ND	Haul Road - North															
27	HAUL_SD	Haul Road - South															
28	STKP_LND	Stockpile Loading Area - North															
29	STKP_LSD	Stockpile Loading Area - South															
30	OFF_N	Offsite Truck Emissions - North															
31	OFF_S	Offsite Truck - South															

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	Organic Lead	2-Butanone	Acenaphthene	Di-n-butyl phthalate	Phenanthrene	Fluorene	Naphthalene	2-Methylnaphthalene	o-Xylene	1,2-Dichlorobenzene
			CAS No.	78-00-2	78-93-3	83-32-9	84-74-2	85-01-8	86-73-7	91-20-3	91-57-6	95-47-6	95-50-1
		Non-Pit F	UCL Concentration (mg/kg)[a]	4.1E-01	1.5E-02	2.3E+00	4.3E-01	1.0E+02	2.1E+00	1.2E+00	5.0E+00	1.5E-01	3.5E-01
		Pit F	UCL Concentration (mg/kg)[a]	4.4E-02	4.3E+00			5.5E+04		1.7E+02			
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**										
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	7.5E-08	2.7E-09	4.2E-07	7.8E-08	1.9E-05	3.8E-07	2.3E-07	9.1E-07	2.8E-08	6.4E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	2.0E-07	7.2E-09	1.1E-06	2.0E-07	4.9E-05	1.0E-06	5.9E-07	2.4E-06	7.2E-08	1.7E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02	8.9E-10	8.7E-08			1.1E-03		3.5E-06			
4	3_1	Phase 3.1 - Support Berm	5.5E-01	2.3E-07	8.3E-09	1.3E-06	2.3E-07	5.7E-05	1.2E-06	6.8E-07	2.7E-06	8.3E-08	1.9E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	1.5E-06	5.4E-08	8.2E-06	1.5E-06	3.7E-04	7.5E-06	4.4E-06	1.8E-05	5.4E-07	1.3E-06
6	4_1	Phase 4 - Treatment Cell											
7	5	Phase 5 - Concrete Debris	3.7E-01	1.5E-07	5.5E-09	8.4E-07	1.6E-07	3.8E-05	7.7E-07	4.5E-07	1.8E-06	5.5E-08	1.3E-07
8	6	Phase 6 - Fill to Final Grade											
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	7.5E-08	2.7E-09	4.2E-07	7.8E-08	1.9E-05	3.8E-07	2.3E-07	9.1E-07	2.8E-08	6.4E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	1.5E-07	5.5E-09	8.4E-07	1.6E-07	3.8E-05	7.7E-07	4.5E-07	1.8E-06	5.5E-08	1.3E-07
11	8	Phase 8 - City Parcel	3.5E+00	1.4E-06	5.2E-08	8.0E-06	1.5E-06	3.6E-04	7.3E-06	4.3E-06	1.7E-05	5.2E-07	1.2E-06
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	1.3E-06	4.9E-08	7.5E-06	1.4E-06	3.4E-04	6.9E-06	4.0E-06	1.6E-05	4.9E-07	1.1E-06
13	10	Phase 10 - Site Restoration											
14	HAUL_N	Haul Road - North	2.1E+00	8.5E-07	3.1E-08	4.7E-06	8.8E-07	2.1E-04	4.3E-06	2.6E-06	1.0E-05	3.1E-07	7.2E-07
15	HAUL_S	Haul Road - South	1.4E+00	5.8E-07	2.1E-08	3.2E-06	6.0E-07	1.4E-04	2.9E-06	1.7E-06	7.0E-06	2.1E-07	4.9E-07
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	1.9E-08	7.1E-10	1.1E-07	2.0E-08	4.9E-06	9.9E-08	5.8E-08	2.3E-07	7.1E-09	1.7E-08
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	9.3E-09	3.4E-10	5.2E-08	9.6E-09	2.3E-06	4.7E-08	2.8E-08	1.1E-07	3.4E-09	7.9E-09
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI											
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP											
22	5D	Phase 5 - Concrete Debris (DPM)											
23	6D	Phase 6 - Fill to Final Grade (DPM)											
24	8D	Phase 8 - City Parcel (DPM)											
25	9D	Phase 7 - South Coast Oil Corporation - DPM											
26	HAUL_ND	Haul Road - North											
27	HAUL_SD	Haul Road - South											
28	STKP_LND	Stockpile Loading Area - North											
29	STKP_LSD	Stockpile Loading Area - South											
30	OFF_N	Offsite Truck Emissions - North											
31	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	1,2,4-Trimethylbenzene	1-METHYLETHYLBENZENE	p-Isopropyltoluene	2-PROPYL-1-HEPTANOL	Heptachlor epoxide	Endosulfan sulfate	2,4-Dimethylphenol	P-XYLENE
			CAS No.	95-63-6	98-82-8	99-87-6	10042-59-8	1024-57-3	1031-07-8	105-67-9	106-42-3
		Non-Pit F	UCL Concentration (mg/kg)[a]	1.2E+00	3.9E-01	3.5E-01	0.0E+00	3.2E-02	4.3E-03	0.0E+00	5.6E-02
		Pit F	UCL Concentration (mg/kg)[a]	2.5E+00							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	2.1E-07	7.1E-08	6.3E-08		5.9E-09	7.9E-10		1.0E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	5.6E-07	1.8E-07	1.6E-07		1.5E-08	2.1E-09		2.7E-08
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02	5.1E-08							
4	3_1	Phase 3.1 - Support Berm	5.5E-01	6.4E-07	2.1E-07	1.9E-07		1.8E-08	2.4E-09		3.1E-08
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	4.2E-06	1.4E-06	1.2E-06		1.1E-07	1.5E-08		2.0E-07
6	4_1	Phase 4 - Treatment Cell									
7	5	Phase 5 - Concrete Debris	3.7E-01	4.3E-07	1.4E-07	1.3E-07		1.2E-08	1.6E-09		2.1E-08
8	6	Phase 6 - Fill to Final Grade									
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	2.1E-07	7.1E-08	6.3E-08		5.9E-09	7.9E-10		1.0E-08
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	4.3E-07	1.4E-07	1.3E-07		1.2E-08	1.6E-09		2.1E-08
11	8	Phase 8 - City Parcel	3.5E+00	4.0E-06	1.3E-06	1.2E-06		1.1E-07	1.5E-08		1.9E-07
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	3.8E-06	1.3E-06	1.1E-06		1.0E-07	1.4E-08		1.8E-07
13	10	Phase 10 - Site Restoration									
14	HAUL_N	Haul Road - North	2.1E+00	2.4E-06	8.0E-07	7.1E-07		6.6E-08	8.9E-09		1.2E-07
15	HAUL_S	Haul Road - South	1.4E+00	1.6E-06	5.4E-07	4.8E-07		4.5E-08	6.0E-09		7.9E-08
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	5.5E-08	1.8E-08	1.6E-08		1.5E-09	2.0E-10		2.6E-09
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	2.6E-08	8.7E-09	7.8E-09		7.2E-10	9.7E-11		1.3E-09
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI									
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP									
22	5D	Phase 5 - Concrete Debris (DPM)									
23	6D	Phase 6 - Fill to Final Grade (DPM)									
24	8D	Phase 8 - City Parcel (DPM)									
25	9D	Phase 7 - South Coast Oil Corporation - DPM									
26	HAUL_ND	Haul Road - North									
27	HAUL_SD	Haul Road - South									
28	STKP_LND	Stockpile Loading Area - North									
29	STKP_LSD	Stockpile Loading Area - South									
30	OFF_N	Offsite Truck Emissions - North									
31	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	4-Chlorotoluene	1,4-Dichlorobenzene	1,2-Dibromoethane	1,2-Dichloroethane	M-XYLENE	Chlorobenzene	Aroclor 1254	1,2,4-Trichlorobenzene
		CAS No.	106-43-4	106-46-7	106-93-4	107-06-2	108-38-3	108-90-7	11097-69-1	120-82-1
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	6.1E-03	0.0E+00	6.5E-01	2.0E-03	1.5E-02	1.0E-03
	Pit F	UCL Concentration (mg/kg)[a]								
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01		1.1E-09		1.2E-07	3.7E-10	2.7E-09	1.8E-10
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01		2.9E-09		3.1E-07	9.5E-10	7.2E-09	4.8E-10
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02							
4	3_1	Phase 3.1 - Support Berm	5.5E-01		3.4E-09		3.6E-07	1.1E-09	8.3E-09	5.5E-10
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00		2.2E-08		2.3E-06	7.2E-09	5.4E-08	3.6E-09
6	4_1	Phase 4 - Treatment Cell								
7	5	Phase 5 - Concrete Debris	3.7E-01		2.2E-09		2.4E-07	7.3E-10	5.5E-09	3.7E-10
8	6	Phase 6 - Fill to Final Grade								
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01		1.1E-09		1.2E-07	3.7E-10	2.7E-09	1.8E-10
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01		2.2E-09		2.4E-07	7.3E-10	5.5E-09	3.7E-10
11	8	Phase 8 - City Parcel	3.5E+00		2.1E-08		2.2E-06	6.9E-09	5.2E-08	3.5E-09
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00		2.0E-08		2.1E-06	6.5E-09	4.9E-08	3.3E-09
13	10	Phase 10 - Site Restoration								
14	HAUL_N	Haul Road - North	2.1E+00		1.3E-08		1.3E-06	4.1E-09	3.1E-08	2.1E-09
15	HAUL_S	Haul Road - South	1.4E+00		8.6E-09		9.1E-07	2.8E-09	2.1E-08	1.4E-09
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02		2.9E-10		3.1E-08	9.5E-11	7.1E-10	4.7E-11
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02		1.4E-10		1.5E-08	4.5E-11	3.4E-10	2.3E-11
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI								
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP								
22	5D	Phase 5 - Concrete Debris (DPM)								
23	6D	Phase 6 - Fill to Final Grade (DPM)								
24	8D	Phase 8 - City Parcel (DPM)								
25	9D	Phase 7 - South Coast Oil Corporation - DPM								
26	HAUL_ND	Haul Road - North								
27	HAUL_SD	Haul Road - South								
28	STKP_LND	Stockpile Loading Area - North								
29	STKP_LSD	Stockpile Loading Area - South								
30	OFF_N	Offsite Truck Emissions - North								
31	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

			Chemical Name	HEXANEDIOIC ACID, DIOCTYL ESTER	Aroclor 1248	Aroclor 1016	Tetrachloroethene	Chlordane	Dibenzofuran	6-METHYL-1,1-HEPTANOL	Chromium (VI)
			CAS No.	123-79-5	12672-29-6	12674-11-2	127-18-4	12789-03-6	132-64-9	1653-40-3	18540-29-9
		Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	0.0E+00	7.8E-03	1.4E+00	0.0E+00	0.0E+00	7.3E-01
		Pit F	UCL Concentration (mg/kg)[a]								2.5E-01
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01				1.4E-09	2.6E-07			1.3E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01				3.7E-09	6.7E-07			3.5E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02								5.1E-09
4	3_1	Phase 3.1 - Support Berm	5.5E-01				4.3E-09	7.7E-07			4.0E-07
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00				2.8E-08	5.0E-06			2.6E-06
6	4_1	Phase 4 - Treatment Cell									
7	5	Phase 5 - Concrete Debris	3.7E-01				2.9E-09	5.1E-07			2.7E-07
8	6	Phase 6 - Fill to Final Grade									
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01				1.4E-09	2.6E-07			1.3E-07
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01				2.9E-09	5.1E-07			2.7E-07
11	8	Phase 8 - City Parcel	3.5E+00				2.7E-08	4.8E-06			2.5E-06
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00				2.6E-08	4.6E-06			2.4E-06
13	10	Phase 10 - Site Restoration									
14	HAUL_N	Haul Road - North	2.1E+00				1.6E-08	2.9E-06			1.5E-06
15	HAUL_S	Haul Road - South	1.4E+00				1.1E-08	2.0E-06			1.0E-06
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02				3.7E-10	6.6E-08			3.5E-08
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02				1.8E-10	3.2E-08			1.6E-08
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI									
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP									
22	5D	Phase 5 - Concrete Debris (DPM)									
23	6D	Phase 6 - Fill to Final Grade (DPM)									
24	8D	Phase 8 - City Parcel (DPM)									
25	9D	Phase 7 - South Coast Oil Corporation - DPM									
26	HAUL_ND	Haul Road - North									
27	HAUL_SD	Haul Road - South									
28	STKP_LND	Stockpile Loading Area - North									
29	STKP_LSD	Stockpile Loading Area - South									
30	OFF_N	Offsite Truck Emissions - North									
31	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	(1,1-DIMETHYLBUTYL)BENZENE	(1,1-DIMETHYLPROPYL)BENZENE	Benzo(k)fluoranthene	Acenaphthylene	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE
		CAS No.	1985-57-5	2049-95-8	207-08-9	208-96-8	22531-20-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	1.4E-01	2.0E-03	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]					

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/hour)				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01		2.6E-08	3.7E-10	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01		6.7E-08	9.5E-10	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02				
4	3_1	Phase 3.1 - Support Berm	5.5E-01		7.7E-08	1.1E-09	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00		5.0E-07	7.2E-09	
6	4_1	Phase 4 - Treatment Cell					
7	5	Phase 5 - Concrete Debris	3.7E-01		5.1E-08	7.3E-10	
8	6	Phase 6 - Fill to Final Grade					
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01		2.6E-08	3.7E-10	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01		5.1E-08	7.3E-10	
11	8	Phase 8 - City Parcel	3.5E+00		4.8E-07	6.9E-09	
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00		4.6E-07	6.5E-09	
13	10	Phase 10 - Site Restoration					
14	HAUL_N	Haul Road - North	2.1E+00		2.9E-07	4.1E-09	
15	HAUL_S	Haul Road - South	1.4E+00		2.0E-07	2.8E-09	
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02		6.6E-09	9.5E-11	
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02		3.2E-09	4.5E-11	
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI					
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP					
22	5D	Phase 5 - Concrete Debris (DPM)					
23	6D	Phase 6 - Fill to Final Grade (DPM)					
24	8D	Phase 8 - City Parcel (DPM)					
25	9D	Phase 7 - South Coast Oil Corporation - DPM					
26	HAUL_ND	Haul Road - North					
27	HAUL_SD	Haul Road - South					
28	STKP_LND	Stockpile Loading Area - North					
29	STKP_LSD	Stockpile Loading Area - South					
30	OFF_N	Offsite Truck Emissions - North					
31	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	ISOOCTANOL	(1-METHYLBUTYL)BENZENE	2-CYCLOHEXYLDECANE	alpha-BHC	Endosulfan II	1-METHYLETHYLCYCLOPENTANE
		CAS No.	22975-62-8	26952-21-6	2719-52-0	2883-05-8	319-84-6	33213-65-9	3875-51-2
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-03	1.1E-02	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01				4.9E-10	2.0E-09	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01				1.3E-09	5.3E-09	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02						
4	3_1	Phase 3.1 - Support Berm	5.5E-01				1.5E-09	6.1E-09	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00				9.7E-09	3.9E-08	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	3.7E-01				9.9E-10	4.0E-09	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01				4.9E-10	2.0E-09	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01				9.9E-10	4.0E-09	
11	8	Phase 8 - City Parcel	3.5E+00				9.3E-09	3.8E-08	
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00				8.8E-09	3.6E-08	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.1E+00				5.6E-09	2.3E-08	
15	HAUL_S	Haul Road - South	1.4E+00				3.8E-09	1.5E-08	
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02				1.3E-10	5.2E-10	
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02				6.1E-11	2.5E-10	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	1-ETHYL-4-(1-METHYLETHYL)BENZENE	OCTAHYDROINDENE	GAMMA-CHLORDANE	1,2,3,5-TETRAMETHYLBENZENE	Aroclor 1242	Endrin ketone	(1-PROPENYL)CYCLOHEXANE
		CAS No.	4218-48-8	496-10-6	5103-74-2	527-53-7	53469-21-9	53494-70-5	5364-83-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.4E-03	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01		3.1E-09			4.4E-10	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01		8.1E-09			1.1E-09	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02						
4	3_1	Phase 3.1 - Support Berm	5.5E-01		9.4E-09			1.3E-09	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00		6.1E-08			8.6E-09	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	3.7E-01		6.2E-09			8.8E-10	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01		3.1E-09			4.4E-10	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01		6.2E-09			8.8E-10	
11	8	Phase 8 - City Parcel	3.5E+00		5.9E-08			8.3E-09	
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00		5.6E-08			7.9E-09	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.1E+00		3.5E-08			5.0E-09	
15	HAUL_S	Haul Road - South	1.4E+00		2.4E-08			3.4E-09	
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02		8.0E-10			1.1E-10	
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02		3.8E-10			5.4E-11	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	Dibenz(a,h)anthracene	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	gamma-BHC (Lindane)	2-Hexanone	Dieldrin	Benzoic acid
		CAS No.	53-70-3	54340-86-2	5557-93-7	58-89-9	591-78-6	60-57-1	65-85-0
	Non-Pit F	UCL Concentration (mg/kg)[a]	1.7E+00	0.0E+00	0.0E+00	6.5E-02	3.4E-03	3.1E-02	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]							
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	3.1E-07		1.2E-08	6.2E-10	5.7E-09	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	8.1E-07		3.1E-08	1.6E-09	1.5E-08	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02						
4	3_1	Phase 3.1 - Support Berm	5.5E-01	9.4E-07		3.6E-08	1.9E-09	1.7E-08	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	6.1E-06		2.3E-07	1.2E-08	1.1E-07	
6	4_1	Phase 4 - Treatment Cell							
7	5	Phase 5 - Concrete Debris	3.7E-01	6.2E-07		2.4E-08	1.2E-09	1.1E-08	
8	6	Phase 6 - Fill to Final Grade							
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	3.1E-07		1.2E-08	6.2E-10	5.7E-09	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	6.2E-07		2.4E-08	1.2E-09	1.1E-08	
11	8	Phase 8 - City Parcel	3.5E+00	5.9E-06		2.2E-07	1.2E-08	1.1E-07	
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	5.6E-06		2.1E-07	1.1E-08	1.0E-07	
13	10	Phase 10 - Site Restoration							
14	HAUL_N	Haul Road - North	2.1E+00	3.5E-06		1.3E-07	7.0E-09	6.4E-08	
15	HAUL_S	Haul Road - South	1.4E+00	2.4E-06		9.1E-08	4.8E-09	4.3E-08	
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	8.0E-08		3.1E-09	1.6E-10	1.5E-09	
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	3.8E-08		1.5E-09	7.7E-11	7.0E-10	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI							
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP							
22	5D	Phase 5 - Concrete Debris (DPM)							
23	6D	Phase 6 - Fill to Final Grade (DPM)							
24	8D	Phase 8 - City Parcel (DPM)							
25	9D	Phase 7 - South Coast Oil Corporation - DPM							
26	HAUL_ND	Haul Road - North							
27	HAUL_SD	Haul Road - South							
28	STKP_LND	Stockpile Loading Area - North							
29	STKP_LSD	Stockpile Loading Area - South							
30	OFF_N	Offsite Truck Emissions - North							
31	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	Chloroform	1,1,1-Trichloroethane	Methoxychlor	Bromoform	1,1-Dichloroethane	1,1-Dichloroethene
		CAS No.	67-66-3	71-55-6	72-43-5	75-25-2	75-34-3	75-35-4
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	0.0E+00	5.3E-03	0.0E+00	0.0E+00	4.3E-03
	Pit F	UCL Concentration (mg/kg)[a]						

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/hour)					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01		9.7E-10			7.9E-10
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01		2.5E-09			2.1E-09
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02					
4	3_1	Phase 3.1 - Support Berm	5.5E-01		2.9E-09			2.4E-09
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00		1.9E-08			1.5E-08
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	3.7E-01		1.9E-09			1.6E-09
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01		9.7E-10			7.9E-10
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01		1.9E-09			1.6E-09
11	8	Phase 8 - City Parcel	3.5E+00		1.8E-08			1.5E-08
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00		1.7E-08			1.4E-08
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.1E+00		1.1E-08			8.9E-09
15	HAUL_S	Haul Road - South	1.4E+00		7.4E-09			6.0E-09
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02		2.5E-10			2.0E-10
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02		1.2E-10			9.7E-11
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	1,1,2-Trichloro-1,2,2-Trifluoroethane	Heptachlor	1,1,2,2-Tetrachloroethane	BENZYL BUTYL PHTHALATE	N-Nitrosodiphenylamine	1,2,3-Trichlorobenzene
		CAS No.	76-13-1	76-44-8	79-34-5	85-68-7	86-30-6	87-61-6
	Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00	2.9E-02	2.9E-03	6.3E-01	0.0E+00	1.3E-03
	Pit F	UCL Concentration (mg/kg)[a]						
Order	**Source ID**	**Description**	**Area Wide Fugitive Dust (lbs/hour)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	5.3E-09	5.3E-10	1.2E-07		2.4E-10
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	1.4E-08	1.4E-09	3.0E-07		6.2E-10
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02					
4	3_1	Phase 3.1 - Support Berm	5.5E-01	1.6E-08	1.6E-09	3.5E-07		7.2E-10
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	1.0E-07	1.0E-08	2.3E-06		4.7E-09
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	3.7E-01	1.1E-08	1.1E-09	2.3E-07		4.8E-10
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	5.3E-09	5.3E-10	1.2E-07		2.4E-10
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	1.1E-08	1.1E-09	2.3E-07		4.8E-10
11	8	Phase 8 - City Parcel	3.5E+00	1.0E-07	1.0E-08	2.2E-06		4.5E-09
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	9.5E-08	9.5E-09	2.1E-06		4.3E-09
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.1E+00	6.0E-08	6.0E-09	1.3E-06		2.7E-09
15	HAUL_S	Haul Road - South	1.4E+00	4.1E-08	4.1E-09	8.8E-07		1.8E-09
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	1.4E-09	1.4E-10	3.0E-08		6.1E-11
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	6.5E-10	6.5E-11	1.4E-08		2.9E-11
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

	Chemical Name	DECAHYDRONAPHTHALENE
	CAS No.	91-17-8
Non-Pit F	UCL Concentration (mg/kg)[a]	0.0E+00
Pit F	UCL Concentration (mg/kg)[a]	

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/hour)
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02
4	3_1	Phase 3.1 - Support Berm	5.5E-01
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00
6	4_1	Phase 4 - Treatment Cell	
7	5	Phase 5 - Concrete Debris	3.7E-01
8	6	Phase 6 - Fill to Final Grade	
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01
11	8	Phase 8 - City Parcel	3.5E+00
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00
13	10	Phase 10 - Site Restoration	
14	HAUL_N	Haul Road - North	2.1E+00
15	HAUL_S	Haul Road - South	1.4E+00
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02
18	TRUCK_N	Truck Loading Area - North	
19	TRUCK_S	Truck Loading Area - South	
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI	
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP	
22	5D	Phase 5 - Concrete Debris (DPM)	
23	6D	Phase 6 - Fill to Final Grade (DPM)	
24	8D	Phase 8 - City Parcel (DPM)	
25	9D	Phase 7 - South Coast Oil Corporation - DPM	
26	HAUL_ND	Haul Road - North	
27	HAUL_SD	Haul Road - South	
28	STKP_LND	Stockpile Loading Area - North	
29	STKP_LSD	Stockpile Loading Area - South	
30	OFF_N	Offsite Truck Emissions - North	
31	OFF_S	Offsite Truck - South	

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 4 (Hourly)

		Chemical Name	3,3'-DICHLOROBENZIDINE	Benzidine	1,1,4-6-TETRAMETHYLINDANE	1,2-Dibromo-3-Chloropropane	tert-Butylbenzene	Crystalline Silica
		CAS No.	91-94-1	92-87-5	941-60-6	96-12-8	98-06-6	7631-86-9
	Non-Pit F	UCL Concentration (mg/kg)[a]	8.2E-02		0.0E+00	5.9E-03	0.0E+00	0.0E+00
	Pit F	UCL Concentration (mg/kg)[a]						

Order	Source ID	Description	Area Wide Fugitive Dust (lbs/hour)					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.5E-08			1.1E-09	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	4.8E-01	3.9E-08			2.8E-09	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	2.0E-02					
4	3_1	Phase 3.1 - Support Berm	5.5E-01	4.5E-08			3.3E-09	
5	3_2	Phase 3.2 - Cut and Fill to Top of Waste	3.6E+00	2.9E-07			2.1E-08	
6	4_1	Phase 4 - Treatment Cell						
7	5	Phase 5 - Concrete Debris	3.7E-01	3.0E-08			2.2E-09	
8	6	Phase 6 - Fill to Final Grade						
9	7_1	Phase 7 - Surface Water Control (1 of 2)	1.8E-01	1.5E-08			1.1E-09	
10	7_2	Phase 7 - Surface Water Control (2 of 2)	3.7E-01	3.0E-08			2.2E-09	
11	8	Phase 8 - City Parcel	3.5E+00	2.8E-07			2.0E-08	
12	9	Phase 9 - South Coast Oil Corporation	3.3E+00	2.7E-07			1.9E-08	
13	10	Phase 10 - Site Restoration						
14	HAUL_N	Haul Road - North	2.1E+00	1.7E-07			1.2E-08	
15	HAUL_S	Haul Road - South	1.4E+00	1.1E-07			8.3E-09	
16	STKP_L_N	Stockpile Loading Area - North	4.7E-02	3.9E-09			2.8E-10	
17	STKP_L_S	Stockpile Loading Area - South	2.3E-02	1.8E-09			1.3E-10	
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	1D	Phase 1 - Mobilization and Maintain Haul Roads (DI						
21	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DP						
22	5D	Phase 5 - Concrete Debris (DPM)						
23	6D	Phase 6 - Fill to Final Grade (DPM)						
24	8D	Phase 8 - City Parcel (DPM)						
25	9D	Phase 7 - South Coast Oil Corporation - DPM						
26	HAUL_ND	Haul Road - North						
27	HAUL_SD	Haul Road - South						
28	STKP_LND	Stockpile Loading Area - North						
29	STKP_LSD	Stockpile Loading Area - South						
30	OFF_N	Offsite Truck Emissions - North						
31	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[b] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Total PM10 Emissions Inventory (lbs/year)[a]					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	**Phase**	**Subphase**	**Silica**	**Fugitive Dust**	**Fugitive Dust**	**DPM**	**Road Dust**	**Idle_DPM**
1.1	**Mobilization**	Maintain haul roads for duration of project						
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade			69	0	17	0
2.2	**Pit F**	Traffic Control and Temporary Fencing						
2.3	**Pit F**	Assemble Sprung Structure						
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)		0				
2.5	**Pit F**	Transport and Dispose of Impacted Material				0	39	0
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)		24				
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material				5	1,439	9
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation			21	0	5	0
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	33			0	12	0
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		18				
4a.4	**North Parcel**	Transport and dispose of excavated material				3	947	6
4a.5	**North Parcel**	Backfill with rock				0	126	1
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)				0	126	1
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation			16	0	4	0
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	33			0	8	0
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		32				
4b.4	**East Parcel**	Transport and dispose of excavated material				6	1,780	11
4b.5	**East Parcel**	Backfill with rock				0	76	0
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)				0	76	0
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation			21	0	5	0
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	33			0	12	0
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		31				
4c.4	**Central Parcel**	Transport and dispose of excavated material				5	1,578	10
4c.5	**Central Parcel**	Backfill with rock				0	135	1
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)				0	135	1
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation			28	0	13	0
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	33			0	19	0
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		64				
4d.4	**South and West Parcel**	Transport and dispose of excavated material				17	5,347	21
4d.5	**South and West Parcel**	Backfill with rock				1	327	1
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)				1	327	1
5.1	**Final Grade**	Backfill to final grade				1	5,460	3
5.2	**Final Grade**	Install haul road				0	18	0
6.1	**Fill to Final Grade**	Install detention basins						

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Total PM10 Emissions Inventory (lbs/year)[a]								Step 3 - Allocate emissions for individual AERM			
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]	Off-site Truck Haul Path /	Excavation		North Ha
Phase No.	Phase	Subphase	DPM	DPM	Road Dust	Idle_DPM	Fugitive Dust	Fugitive Dust	DPM	DPM	Stockpile Area	Area Wide	Stockpile	DPM
1.1	Mobilization	Maintain haul roads for duration of project	483	4	1,219	7								
2.1	Pit F	Clear and grub, prepare haul roads, initial grade	32	0	36	0			0	0	North			0
2.2	Pit F	Traffic Control and Temporary Fencing	4	0	8	0								
2.3	Pit F	Assemble Sprung Structure	6											
2.4	Pit F	Slurry Trench Excavation(waste in bins)	294	1	191	1	0	0			North	0	0	
2.5	Pit F	Transport and Dispose of Impacted Material	0						0	0	North			0
3.1	Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	349	2	2,501	3	0	0			50/50	12	12	
3.2	Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material	82						2	1	50/50			2
4a.1	North Parcel	Clear, grub, and dispose of existing vegetation	5						0	0	North			0
4a.2	North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	11	0	25	0			0	0	North			0
4a.3	North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	235	2	1,889	3	0	0			North	9	9	0
4a.4	North Parcel	Transport and dispose of excavated material	53						1	1	North			3
4a.5	North Parcel	Backfill with rock	0	0	74	0			0	0	North			0
4a.6	North Parcel	Backfill with soil (performed concurrently with Task 5)	29	0	74	0			0	0	North			0
4b.1	East Parcel	Clear, grub, and dispose of existing vegetation	4						0	0	North			0
4b.2	East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	8	0	16	0			0	0	North			0
4b.3	East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	413	3	3,318	5	0	0				16	16	
4b.4	East Parcel	Transport and dispose of excavated material	101						3	2	North			6
4b.5	East Parcel	Backfill with rock	0	0	45	0			0	0	North			0
4b.6	East Parcel	Backfill with soil (performed concurrently with Task 5)	7	0	45	0			0	0	North			0
4c.1	Central Parcel	Clear, grub, and dispose of existing vegetation	5						0	0	South			
4c.2	Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	11	0	25	0			0	0	South			
4c.3	Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	394	3	3,165	4	0	0				15	15	
4c.4	Central Parcel	Transport and dispose of excavated material	90						2	1	South			
4c.5	Central Parcel	Backfill with rock	0	0	79	0			0	0	South			
4c.6	Central Parcel	Backfill with soil (performed concurrently with Task 5)	12	0	79	0			0	0	South			
4d.1	South and West Parcel	Clear, grub, and dispose of existing vegetation	7						0	0	South			
4d.2	South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)	11	0	25	0			0	0	South			
4d.3	South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)	820	6	6,585	9	0	0				32	32	
4d.4	South and West Parcel	Transport and dispose of excavated material	188						5	3	South			
4d.5	South and West Parcel	Backfill with rock	0	0	119	1			0	0	South			
4d.6	South and West Parcel	Backfill with soil (performed concurrently with Task 5)	18	0	119	1			0	0	South			
5.1	Final Grade	Backfill to final grade	149	3	769	4			1	1	50/50			1
5.2	Final Grade	Install haul road	6	0	33	0			0	0	50/50			0
6.1	Fill to Final Grade	Install detention basins	14	0	36	0								

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

OD sources

			aul Road	South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**	**Dust**	**DPM**	**Dust**	**Loading**	**Wash**	**Loading**	**Wash**	**DPM**	**Dust**	**Dust**	**Concrete**	**DPM**	**DPM**
1.1	**Mobilization**	Maintain haul roads for duration of project								493	1,219	0	0		
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	17			0	0			33	36	69	0	0	0
2.2	**Pit F**	Traffic Control and Temporary Fencing								4	8	0	0		
2.3	**Pit F**	Assemble Sprung Structure								6	0	0	0		
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)								296	191	0	0		
2.5	**Pit F**	Transport and Dispose of Impacted Material	39			0	0			0	0	0	0	1	1
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)								355	2,501	0	0		
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	719	2	719	2	2	2	2	82	0	0	0	2	1
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	5			0	0			5	0	21	0	0	0
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	12			0	0			12	25	0	33	0	0
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0			0	0			239	1,889	0	0		
4a.4	**North Parcel**	Transport and dispose of excavated material	947			3	3			53	0	0	0	1	1
4a.5	**North Parcel**	Backfill with rock	126			0	0			1	74	0	0	0	0
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	126			0	0			29	74	0	0	0	0
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	4			0	0			4	0	16	0	0	0
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	8			0	0			8	16	0	33	0	0
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								420	3,318	0	0		
4b.4	**East Parcel**	Transport and dispose of excavated material	1780			6	6			101	0	0	0	3	2
4b.5	**East Parcel**	Backfill with rock	76			0	0			0	45	0	0	0	0
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	76			0	0			7	45	0	0	0	0
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation		0	5			0	0	5	0	21	0	0	0
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)		0	12			0	0	12	25	0	33	0	0
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								401	3,165	0	0		
4c.4	**Central Parcel**	Transport and dispose of excavated material		5	1578			5	5	90	0	0	0	2	1
4c.5	**Central Parcel**	Backfill with rock		0	135			0	0	1	79	0	0	0	0
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)		0	135			0	0	13	79	0	0	0	0
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation		0	13			0	0	7	0	28	0	0	0
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)		0	19			0	0	12	25	0	33	0	0
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								835	6,585	0	0		
4d.4	**South and West Parcel**	Transport and dispose of excavated material		17	5347			11	11	188	0	0	0	5	3
4d.5	**South and West Parcel**	Backfill with rock		1	327			1	1	1	119	0	0	0	0
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)		1	327			1	1	19	119	0	0	0	0
5.1	**Final Grade**	Backfill to final grade		1		1	1	1	1	156		0	0	1	1
5.2	**Final Grade**	Install haul road		0		0	0	0	0	7		0	0	0	0
6.1	**Fill to Final Grade**	Install detention basins								14		0	0		

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Fugitive Dust Emissions (lbs/year)[f]				
			Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South
Phase No.	**Phase**	**Subphase**					
1.1	**Mobilization**	Maintain haul roads for duration of project	1,219				
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	106	17			
2.2	**Pit F**	Traffic Control and Temporary Fencing	8				
2.3	**Pit F**	Assemble Sprung Structure	0				
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)	192				
2.5	**Pit F**	Transport and Dispose of Impacted Material	0	39			
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	2,513			6.1E+00	6
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	0	719	719		
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	21	5			
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	25	12			
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	1,898			9	
4a.4	**North Parcel**	Transport and dispose of excavated material	0	947			
4a.5	**North Parcel**	Backfill with rock	74	126			
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	74	126			
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	16	4			
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	16	8			
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3,334			16	
4b.4	**East Parcel**	Transport and dispose of excavated material	0	1780			
4b.5	**East Parcel**	Backfill with rock	45	76			
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	45	76			
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation	21		5		
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	25		12		
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3,180				15
4c.4	**Central Parcel**	Transport and dispose of excavated material	0		1578		
4c.5	**Central Parcel**	Backfill with rock	79		135		
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)	79		135		
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation	28		13		
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	25		19		
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	6,617				32
4d.4	**South and West Parcel**	Transport and dispose of excavated material	0		5347		
4d.5	**South and West Parcel**	Backfill with rock	119		327		
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)	119		327		
5.1	**Final Grade**	Backfill to final grade	0	0	0		
5.2	**Final Grade**	Install haul road	0	0	0		
6.1	**Fill to Final Grade**	Install detention basins	0				

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Diesel Particulate Emissions (lbs/year)[f]								
			Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South	Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**									
1.1	**Mobilization**	Maintain haul roads for duration of project	493								
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	33	0		0		0		0	0
2.2	**Pit F**	Traffic Control and Temporary Fencing	4								
2.3	**Pit F**	Assemble Sprung Structure	6								
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)	296								
2.5	**Pit F**	Transport and Dispose of Impacted Material		0		0		0		1	1
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	355								
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	82	2	2	2	2	2	2	2	1
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	5	0		0		0		0	0
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	12	0		0		0		0	0
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	239								
4a.4	**North Parcel**	Transport and dispose of excavated material	53	3		3		3		1	1
4a.5	**North Parcel**	Backfill with rock	1	0		0		0		0	0
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	29	0		0		0		0	0
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	4	0		0		0		0	0
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	8	0		0		0		0	0
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	420								
4b.4	**East Parcel**	Transport and dispose of excavated material	101	6		6		6		3	2
4b.5	**East Parcel**	Backfill with rock	0	0		0		0		0	0
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	7	0		0		0		0	0
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation	5		0		0		0	0	0
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	12		0		0		0	0	0
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	401								
4c.4	**Central Parcel**	Transport and dispose of excavated material	90		5		5		5	2	1
4c.5	**Central Parcel**	Backfill with rock	1		0		0		0	0	0
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)	13		0		0		0	0	0
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation	7		0		0		0	0	0
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	12		0		0		0	0	0
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	835								
4d.4	**South and West Parcel**	Transport and dispose of excavated material	188		17		11		11	5	3
4d.5	**South and West Parcel**	Backfill with rock	1		1		1		1	0	0
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)	19		1		1		1	0	0
5.1	**Final Grade**	Backfill to final grade	156	1	1	1	1	1	1	1	1
5.2	**Final Grade**	Install haul road	7	0	0	0	0	0	0	0	0
6.1	**Fill to Final Grade**	Install detention basins	14								

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Total PM10 Emissions Inventory (lbs/year)[a]					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	**Phase**	**Subphase**	**Silica**	**Fugitive Dust**	**Fugitive Dust**	**DPM**	**Road Dust**	**Idle_DPM**
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)						
7.1	**South Coast Oil Corporation**	Cut		3				
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material				1	184	1
7.3	**South Coast Oil Corporation**	Backfill with rock				0	32	0
7.4	**South Coast Oil Corporation**	Backfill to grade				0	16	0
8.1	**Site Restoration**	Site Restoration				0	2	0

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in the HRA.

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Total PM10 Emissions Inventory (lbs/year)[a]							
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]
Phase No.	Phase	Subphase	DPM	DPM	Road Dust	Idle_DPM	Fugitive Dust	Fugitive Dust	DPM	DPM
6.2	Fill to Final Grade	Install V-ditch (performed concurrently with Task 1)	7	0	66	0				
7.1	South Coast Oil Corporation	Cut	34	0	178	0	0	0		
7.2	South Coast Oil Corporation	Transport and dispose of excavated material	6	0	15	0			0	0
7.3	South Coast Oil Corporation	Backfill with rock	5	0	12	0			0	0
7.4	South Coast Oil Corporation	Backfill to grade	1	0	2	0			0	0
8.1	Site Restoration	Site Restoration	2						0	0

Step 3 - Allocate emissions for individual AERM

Off-site Truck Haul Path /	Excavation		North Ha
Stockpile Area	Area Wide	Stockpile	DPM
	1	1	
South			
South			
South			
Area Wide			

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

OD sources

			aul Road	South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**	**Dust**	**DPM**	**Dust**	**Loading**	**Wash**	**Loading**	**Wash**	**DPM**	**Dust**	**Dust**	**Concrete**	**DPM**	**DPM**
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)								8		0	0		
7.1	**South Coast Oil Corporation**	Cut								34	178	0	0		
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material		1	184			0	0	7	15	0	0	0	0
7.3	**South Coast Oil Corporation**	Backfill with rock		0	32			0	0	5	12	0	0	0	0
7.4	**South Coast Oil Corporation**	Backfill to grade		0	16			0	0	1	2	0	0	0	0
8.1	**Site Restoration**	Site Restoration								2		0	0	0	0

[a] Emissions inventory prepared for Interim Deliverable #2 1,877

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these 4,074

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Fugitive Dust Emissions (lbs/year)[f]				
			Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South
Phase No.	**Phase**	**Subphase**					
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)	0				
7.1	**South Coast Oil Corporation**	Cut	179				1
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material	15		184		
7.3	**South Coast Oil Corporation**	Backfill with rock	12		32		
7.4	**South Coast Oil Corporation**	Backfill to grade	2		16		
8.1	**Site Restoration**	Site Restoration					

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Annual)

			Diesel Particulate Emissions (lbs/year)[f]								
			Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South	Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**									
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)	8								
7.1	**South Coast Oil Corporation**	Cut	34								
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material	7		1		0		0	0	0
7.3	**South Coast Oil Corporation**	Backfill with rock	5		0		0		0	0	0
7.4	**South Coast Oil Corporation**	Backfill to grade	1		0		0		0	0	0
8.1	**Site Restoration**	Site Restoration	2							0	0

[a] Emissions inventory prepared for Interim Deliverable #2
[b] Excavation activities assume soil handling at excavation site and stockpile areas
[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate
[d] On-site Truck emissions include off-road trucks travelling on-site.
[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.
[f] Emissions separated by fugitive dust and diesel particulate matter.
Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Diesel Particulate	Ethylbenzene	Styrene	n-Propylbenzene	n-Butylbenzene	1,3,5-Trimethylbenzene	Toluene	Phenol
			CAS No.	9901	100-41-4	100-42-5	103-65-1	104-51-8	108-67-8	108-88-3	108-95-2
		Non-Pit F	UCL Concentration (mg/kg)	1.0E+00	1.3E+01	8.2E+00	1.6E+00	2.9E-01	9.0E-01	9.8E-01	1.1E-01
		Pit F	UCL Concentration (mg/kg)	1.0E+00	2.5E+00	2.9E+01					
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**	**Diesel Particulate (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	4.9E+02	1.6E-02	1.0E-02	2.0E-03	3.5E-04	1.1E-03	1.2E-03	1.3E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02		1.5E-03	9.3E-04	1.8E-04	3.3E-05	1.0E-04	1.1E-04	1.3E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02	3.0E+02	4.8E-04	5.6E-03					
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03		3.3E-02	2.1E-02	4.0E-03	7.3E-04	2.3E-03	2.5E-03	2.8E-04
5	4A	Phase 4A - Excavation	2.1E+03		2.7E-02	1.7E-02	3.4E-03	6.0E-04	1.9E-03	2.0E-03	2.3E-04
6	4B	Phase 4B - Excavation	3.5E+03		4.5E-02	2.8E-02	5.5E-03	1.0E-03	3.1E-03	3.4E-03	3.8E-04
7	4C	Phase 4C - Excavation	3.4E+03		4.4E-02	2.8E-02	5.4E-03	9.8E-04	3.0E-03	3.3E-03	3.7E-04
8	4D	Phase 4D - Excavation	6.9E+03		9.0E-02	5.6E-02	1.1E-02	2.0E-03	6.2E-03	6.7E-03	7.6E-04
9	5	Phase 5 - Final Grade		1.6E+02							
10	6_1	Phase 6 - Surface Water Control (1 of 2)		1.4E+01							
11	6_2	Phase 6 - Surface Water Control (2 of 2)		8.0E+00							
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02		2.7E-03	1.7E-03	3.3E-04	6.0E-05	1.9E-04	2.0E-04	2.3E-05
13	8	Phase 8 - Site Restoration		1.6E+00							
14	HAUL_N	Haul Road - North	3.9E+03		5.1E-02	3.2E-02	6.3E-03	1.1E-03	3.5E-03	3.8E-03	4.3E-04
15	HAUL_S	Haul Road - South	8.8E+03		1.2E-01	7.2E-02	1.4E-02	2.6E-03	8.0E-03	8.6E-03	9.7E-04
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01		4.1E-04	2.6E-04	5.0E-05	9.0E-06	2.8E-05	3.1E-05	3.4E-06
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01		7.1E-04	4.5E-04	8.8E-05	1.6E-05	4.9E-05	5.3E-05	6.0E-06
18	TRUCK_N	Truck Loading Area - North		1.3E+01							
19	TRUCK_S	Truck Loading Area - South		2.1E+01							
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM		4.3E+01							
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM		4.4E+02							
22	4AD	Phase 4A - Excavation - DPM		3.4E+02							
23	4BD	Phase 4B - Excavation - DPM		5.4E+02							
24	4CD	Phase 4C - Excavation - DPM		5.2E+02							
25	4DD	Phase 4D - Excavation - DPM		1.1E+03							
26	7D	Phase 7 - South Coast Oil Corporation - DPM		4.8E+01							
27	HAUL_ND	Haul Road - North		1.3E+01							
28	HAUL_SD	Haul Road - South		2.8E+01							
29	STKP_LND	Stockpile Loading Area - North		1.3E+01							
30	STKP_LSD	Stockpile Loading Area - South		2.1E+01							
31	OFF_N	Offsite Truck Emissions - North		1.3E+01							
32	OFF_S	Offsite Truck - South		2.1E+01							

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Aroclor 1260	BIS(2-ETHYLHEXYL) PHTHALATE	Anthracene	Pyrene	XYLENES (TOTAL)	(1-METHYLPROPYL)BENZENE	m,p-Xylenes
			CAS No.	11096-82-5	117-81-7	120-12-7	129-00-0	1330-20-7	135-98-8	179601-23-1
		Non-Pit F	UCL Concentration (mg/kg)	8.6E-02	1.1E+01	8.0E-01	2.5E-01	5.0E+00	7.1E+00	2.2E+00
		Pit F	UCL Concentration (mg/kg)		2.0E+02				2.8E+01	
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	1.1E-04	1.3E-02	9.8E-04	3.1E-04	6.0E-03	8.7E-03	2.7E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	9.8E-06	1.2E-03	9.1E-05	2.9E-05	5.6E-04	8.1E-04	2.5E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02		3.8E-02				5.4E-03	
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	2.2E-04	2.7E-02	2.0E-03	6.4E-04	1.2E-02	1.8E-02	5.6E-03
5	4A	Phase 4A - Excavation	2.1E+03	1.8E-04	2.2E-02	1.7E-03	5.3E-04	1.0E-02	1.5E-02	4.6E-03
6	4B	Phase 4B - Excavation	3.5E+03	3.0E-04	3.7E-02	2.8E-03	8.8E-04	1.7E-02	2.5E-02	7.7E-03
7	4C	Phase 4C - Excavation	3.4E+03	2.9E-04	3.6E-02	2.7E-03	8.6E-04	1.7E-02	2.4E-02	7.5E-03
8	4D	Phase 4D - Excavation	6.9E+03	6.0E-04	7.4E-02	5.5E-03	1.8E-03	3.4E-02	4.9E-02	1.5E-02
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.8E-05	2.2E-03	1.7E-04	5.3E-05	1.0E-03	1.5E-03	4.6E-04
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	3.9E+03	3.4E-04	4.2E-02	3.1E-03	1.0E-03	1.9E-02	2.8E-02	8.7E-03
15	HAUL_S	Haul Road - South	8.8E+03	7.6E-04	9.5E-02	7.1E-03	2.2E-03	4.4E-02	6.3E-02	2.0E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.7E-06	3.4E-04	2.5E-05	7.9E-06	1.5E-04	2.2E-04	6.9E-05
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	4.7E-06	5.8E-04	4.4E-05	1.4E-05	2.7E-04	3.9E-04	1.2E-04
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Benzo(b)fluoranthene	Fluoranthene	Chrysene	beta-BHC	4,4'-DDT	Benzo(a)pyrene
			CAS No.	191-24-2	193-39-5	205-99-2	206-44-0	218-01-9	319-85-7	50-29-3	50-32-8
		Non-Pit F	UCL Concentration (mg/kg)	1.9E-02	1.3E-02	1.9E-02	2.3E-01	1.6E-01	1.6E-02	3.8E-03	3.1E-01
		Pit F	UCL Concentration (mg/kg)				1.1E+03				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	2.3E-05	1.5E-05	2.4E-05	2.9E-04	1.9E-04	2.0E-05	4.6E-06	3.8E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	2.1E-06	1.4E-06	2.2E-06	2.7E-05	1.8E-05	1.9E-06	4.3E-07	3.6E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02				2.1E-01				
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	4.7E-05	3.2E-05	4.9E-05	5.9E-04	3.9E-04	4.1E-05	9.5E-06	7.9E-04
5	4A	Phase 4A - Excavation	2.1E+03	3.9E-05	2.7E-05	4.1E-05	4.9E-04	3.2E-04	3.4E-05	7.9E-06	6.6E-04
6	4B	Phase 4B - Excavation	3.5E+03	6.5E-05	4.4E-05	6.7E-05	8.1E-04	5.4E-04	5.7E-05	1.3E-05	1.1E-03
7	4C	Phase 4C - Excavation	3.4E+03	6.3E-05	4.3E-05	6.6E-05	7.9E-04	5.2E-04	5.5E-05	1.3E-05	1.1E-03
8	4D	Phase 4D - Excavation	6.9E+03	1.3E-04	8.8E-05	1.3E-04	1.6E-03	1.1E-03	1.1E-04	2.6E-05	2.2E-03
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	3.9E-06	2.6E-06	4.0E-06	4.8E-05	3.2E-05	3.4E-06	7.9E-07	6.5E-05
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	3.9E+03	7.4E-05	5.0E-05	7.6E-05	9.2E-04	6.1E-04	6.5E-05	1.5E-05	1.2E-03
15	HAUL_S	Haul Road - South	8.8E+03	1.7E-04	1.1E-04	1.7E-04	2.1E-03	1.4E-03	1.5E-04	3.4E-05	2.8E-03
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	5.8E-07	4.0E-07	6.1E-07	7.3E-06	4.8E-06	5.1E-07	1.2E-07	9.8E-06
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	1.0E-06	6.9E-07	1.1E-06	1.3E-05	8.5E-06	8.9E-07	2.1E-07	1.7E-05
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	BENZ[A]ANTHRACENE	2-PROPANONE	Benzene	4,4'-DDD	4,4'-DDE	Endrin aldehyde	Lead	Mercury	Molybdenum	Nickel
			CAS No.	56-55-3	67-64-1	71-43-2	72-54-8	72-55-9	7421-93-4	7439-92-1	7439-97-6	7439-98-7	7440-02-0
		Non-Pit F	UCL Concentration (mg/kg)	1.6E-02	1.9E+00	6.1E-01	2.7E-03	5.2E-03	2.0E-03	1.3E+02	9.9E-01	1.8E+00	2.7E+01
		Pit F	UCL Concentration (mg/kg)		9.5E-01					9.7E+00	1.2E-01		5.2E+00
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**										
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	1.9E-05	2.3E-03	7.5E-04	3.3E-06	6.3E-06	2.5E-06	1.6E-01	1.2E-03	2.2E-03	3.3E-02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	1.8E-06	2.2E-04	7.0E-05	3.1E-07	5.9E-07	2.3E-07	1.5E-02	1.1E-04	2.1E-04	3.1E-03
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02		1.8E-04					1.9E-03	2.3E-05		1.0E-03
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	4.0E-05	4.8E-03	1.5E-03	6.9E-06	1.3E-05	5.1E-06	3.3E-01	2.5E-03	4.6E-03	6.8E-02
5	4A	Phase 4A - Excavation	2.1E+03	3.3E-05	4.0E-03	1.3E-03	5.7E-06	1.1E-05	4.2E-06	2.8E-01	2.1E-03	3.8E-03	5.6E-02
6	4B	Phase 4B - Excavation	3.5E+03	5.5E-05	6.6E-03	2.1E-03	9.5E-06	1.8E-05	7.0E-06	4.6E-01	3.4E-03	6.3E-03	9.3E-02
7	4C	Phase 4C - Excavation	3.4E+03	5.4E-05	6.4E-03	2.1E-03	9.3E-06	1.7E-05	6.8E-06	4.5E-01	3.4E-03	6.1E-03	9.1E-02
8	4D	Phase 4D - Excavation	6.9E+03	1.1E-04	1.3E-02	4.2E-03	1.9E-05	3.6E-05	1.4E-05	9.2E-01	6.9E-03	1.3E-02	1.9E-01
9	5	Phase 5 - Final Grade											
10	6_1	Phase 6 - Surface Water Control (1 of 2)											
11	6_2	Phase 6 - Surface Water Control (2 of 2)											
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	3.3E-06	3.9E-04	1.3E-04	5.7E-07	1.1E-06	4.2E-07	2.8E-02	2.1E-04	3.8E-04	5.6E-03
13	8	Phase 8 - Site Restoration											
14	HAUL_N	Haul Road - North	3.9E+03	6.3E-05	7.5E-03	2.4E-03	1.1E-05	2.0E-05	7.9E-06	5.2E-01	3.9E-03	7.1E-03	1.1E-01
15	HAUL_S	Haul Road - South	8.8E+03	1.4E-04	1.7E-02	5.4E-03	2.4E-05	4.6E-05	1.8E-05	1.2E+00	8.8E-03	1.6E-02	2.4E-01
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	5.0E-07	5.9E-05	1.9E-05	8.6E-08	1.6E-07	6.3E-08	4.2E-03	3.1E-05	5.7E-05	8.4E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	8.7E-07	1.0E-04	3.3E-05	1.5E-07	2.8E-07	1.1E-07	7.2E-03	5.4E-05	9.9E-05	1.5E-03
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM											
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM											
22	4AD	Phase 4A - Excavation - DPM											
23	4BD	Phase 4B - Excavation - DPM											
24	4CD	Phase 4C - Excavation - DPM											
25	4DD	Phase 4D - Excavation - DPM											
26	7D	Phase 7 - South Coast Oil Corporation - DPM											
27	HAUL_ND	Haul Road - North											
28	HAUL_SD	Haul Road - South											
29	STKP_LND	Stockpile Loading Area - North											
30	STKP_LSD	Stockpile Loading Area - South											
31	OFF_N	Offsite Truck Emissions - North											
32	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Silver	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc
			CAS No.	7440-22-4	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6
		Non-Pit F	UCL Concentration (mg/kg)	4.0E-01	1.4E+01	1.7E+00	8.7E+00	2.6E+02	4.6E-01	8.9E-01	4.0E+01	8.8E+00	2.8E+02	4.2E+01	1.6E+02
		Pit F	UCL Concentration (mg/kg)				1.2E+00	7.3E+01		1.5E-01	3.2E+00		1.2E+01	7.0E+00	2.4E+01
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**												
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	4.8E-04	1.7E-02	2.1E-03	1.1E-02	3.2E-01	5.6E-04	1.1E-03	4.9E-02	1.1E-02	3.4E-01	5.1E-02	2.0E-01
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	4.5E-05	1.6E-03	2.0E-04	9.9E-04	3.0E-02	5.2E-05	1.0E-04	4.6E-03	1.0E-03	3.2E-02	4.8E-03	1.8E-02
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02				2.3E-04	1.4E-02		2.9E-05	6.1E-04		2.3E-03	1.3E-03	4.6E-03
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.0E-03	3.5E-02	4.3E-03	2.2E-02	6.6E-01	1.2E-03	2.2E-03	1.0E-01	2.2E-02	7.0E-01	1.1E-01	4.1E-01
5	4A	Phase 4A - Excavation	2.1E+03	8.3E-04	2.9E-02	3.6E-03	1.8E-02	5.5E-01	9.6E-04	1.9E-03	8.4E-02	1.9E-02	5.8E-01	8.8E-02	3.4E-01
6	4B	Phase 4B - Excavation	3.5E+03	1.4E-03	4.8E-02	5.9E-03	3.0E-02	9.1E-01	1.6E-03	3.1E-03	1.4E-01	3.1E-02	9.6E-01	1.5E-01	5.6E-01
7	4C	Phase 4C - Excavation	3.4E+03	1.3E-03	4.7E-02	5.8E-03	2.9E-02	8.9E-01	1.6E-03	3.0E-03	1.4E-01	3.0E-02	9.4E-01	1.4E-01	5.5E-01
8	4D	Phase 4D - Excavation	6.9E+03	2.7E-03	9.6E-02	1.2E-02	6.0E-02	1.8E+00	3.2E-03	6.1E-03	2.8E-01	6.1E-02	1.9E+00	2.9E-01	1.1E+00
9	5	Phase 5 - Final Grade													
10	6_1	Phase 6 - Surface Water Control (1 of 2)													
11	6_2	Phase 6 - Surface Water Control (2 of 2)													
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	8.2E-05	2.9E-03	3.6E-04	1.8E-03	5.4E-02	9.5E-05	1.8E-04	8.3E-03	1.8E-03	5.7E-02	8.7E-03	3.4E-02
13	8	Phase 8 - Site Restoration													
14	HAUL_N	Haul Road - North	3.9E+03	1.6E-03	5.5E-02	6.8E-03	3.4E-02	1.0E+00	1.8E-03	3.5E-03	1.6E-01	3.5E-02	1.1E+00	1.7E-01	6.4E-01
15	HAUL_S	Haul Road - South	8.8E+03	3.5E-03	1.2E-01	1.5E-02	7.7E-02	2.3E+00	4.1E-03	7.9E-03	3.6E-01	7.8E-02	2.5E+00	3.7E-01	1.4E+00
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	1.2E-05	4.3E-04	5.4E-05	2.7E-04	8.2E-03	1.4E-05	2.8E-05	1.3E-03	2.8E-04	8.7E-03	1.3E-03	5.1E-03
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	2.2E-05	7.6E-04	9.4E-05	4.7E-04	1.4E-02	2.5E-05	4.9E-05	2.2E-03	4.8E-04	1.5E-02	2.3E-03	8.8E-03
18	TRUCK_N	Truck Loading Area - North													
19	TRUCK_S	Truck Loading Area - South													
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM													
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM													
22	4AD	Phase 4A - Excavation - DPM													
23	4BD	Phase 4B - Excavation - DPM													
24	4CD	Phase 4C - Excavation - DPM													
25	4DD	Phase 4D - Excavation - DPM													
26	7D	Phase 7 - South Coast Oil Corporation - DPM													
27	HAUL_ND	Haul Road - North													
28	HAUL_SD	Haul Road - South													
29	STKP_LND	Stockpile Loading Area - North													
30	STKP_LSD	Stockpile Loading Area - South													
31	OFF_N	Offsite Truck Emissions - North													
32	OFF_S	Offsite Truck - South													

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Methylene Chloride	Trichlorofluoromethane	Selenium	Organic Lead	2-Butanone	Acenaphthene	Di-n-butyl phthalate	Phenanthrene
			CAS No.	75-09-2	75-69-4	7782-49-2	78-00-2	78-93-3	83-32-9	84-74-2	85-01-8
		Non-Pit F	UCL Concentration (mg/kg)	8.3E-01	2.8E-01	2.9E+00	2.6E-01	5.4E-01	2.1E-01	3.3E-01	7.8E+01
		Pit F	UCL Concentration (mg/kg)			2.5E-02	4.4E-02	4.3E+00			5.5E+04
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	1.0E-03	3.4E-04	3.5E-03	3.1E-04	6.6E-04	2.5E-04	4.0E-04	9.5E-02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	9.4E-05	3.2E-05	3.2E-04	2.9E-05	6.1E-05	2.4E-05	3.7E-05	8.9E-03
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02			4.8E-06	8.4E-06	8.2E-04			1.1E+01
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	2.1E-03	7.0E-04	7.2E-03	6.5E-04	1.4E-03	5.2E-04	8.2E-04	2.0E-01
5	4A	Phase 4A - Excavation	2.1E+03	1.7E-03	5.8E-04	6.0E-03	5.4E-04	1.1E-03	4.3E-04	6.8E-04	1.6E-01
6	4B	Phase 4B - Excavation	3.5E+03	2.9E-03	9.6E-04	9.9E-03	8.9E-04	1.9E-03	7.2E-04	1.1E-03	2.7E-01
7	4C	Phase 4C - Excavation	3.4E+03	2.8E-03	9.4E-04	9.7E-03	8.7E-04	1.8E-03	7.0E-04	1.1E-03	2.6E-01
8	4D	Phase 4D - Excavation	6.9E+03	5.7E-03	1.9E-03	2.0E-02	1.8E-03	3.7E-03	1.4E-03	2.3E-03	5.4E-01
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.7E-04	5.8E-05	5.9E-04	5.3E-05	1.1E-04	4.3E-05	6.8E-05	1.6E-02
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	3.9E+03	3.3E-03	1.1E-03	1.1E-02	1.0E-03	2.1E-03	8.1E-04	1.3E-03	3.1E-01
15	HAUL_S	Haul Road - South	8.8E+03	7.3E-03	2.5E-03	2.5E-02	2.3E-03	4.8E-03	1.8E-03	2.9E-03	6.9E-01
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.6E-05	8.7E-06	8.9E-05	8.0E-06	1.7E-05	6.5E-06	1.0E-05	2.4E-03
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	4.5E-05	1.5E-05	1.6E-04	1.4E-05	2.9E-05	1.1E-05	1.8E-05	4.3E-03
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Fluorene	Naphthalene	2-Methylnaphthalene	o-Xylene	1,2-Dichlorobenzene	1,2,4-Trimethylbenzene	1-METHYLETHYLBENZENE
			CAS No.	86-73-7	91-20-3	91-57-6	95-47-6	95-50-1	95-63-6	98-82-8
		Non-Pit F	UCL Concentration (mg/kg)	1.3E+00	9.8E+00	4.2E+00	1.1E+00	1.6E-01	2.7E+00	7.9E+00
		Pit F	UCL Concentration (mg/kg)		1.7E+02				2.5E+00	
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	1.5E-03	1.2E-02	5.2E-03	1.3E-03	1.9E-04	3.3E-03	9.7E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	1.4E-04	1.1E-03	4.8E-04	1.2E-04	1.8E-05	3.1E-04	9.0E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02		3.3E-02				4.8E-04	
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	3.2E-03	2.5E-02	1.1E-02	2.7E-03	3.9E-04	6.9E-03	2.0E-02
5	4A	Phase 4A - Excavation	2.1E+03	2.6E-03	2.0E-02	8.9E-03	2.2E-03	3.3E-04	5.7E-03	1.7E-02
6	4B	Phase 4B - Excavation	3.5E+03	4.3E-03	3.4E-02	1.5E-02	3.7E-03	5.4E-04	9.5E-03	2.7E-02
7	4C	Phase 4C - Excavation	3.4E+03	4.2E-03	3.3E-02	1.4E-02	3.6E-03	5.3E-04	9.3E-03	2.7E-02
8	4D	Phase 4D - Excavation	6.9E+03	8.7E-03	6.7E-02	2.9E-02	7.3E-03	1.1E-03	1.9E-02	5.5E-02
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	2.6E-04	2.0E-03	8.8E-04	2.2E-04	3.2E-05	5.7E-04	1.6E-03
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	3.9E+03	4.9E-03	3.8E-02	1.7E-02	4.2E-03	6.1E-04	1.1E-02	3.1E-02
15	HAUL_S	Haul Road - South	8.8E+03	1.1E-02	8.6E-02	3.7E-02	9.4E-03	1.4E-03	2.4E-02	7.0E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	3.9E-05	3.1E-04	1.3E-04	3.3E-05	4.9E-06	8.6E-05	2.5E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	6.8E-05	5.3E-04	2.3E-04	5.8E-05	8.5E-06	1.5E-04	4.3E-04
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	p-Isopropyltoluene	2-PROPYL-1-HEPTANOL	Heptachlor epoxide	Endosulfan sulfate	2,4-Dimethylphenol	P-XYLENE	4-Chlorotoluene
			CAS No.	99-87-6	10042-59-8	1024-57-3	1031-07-8	105-67-9	106-42-3	106-43-4
		Non-Pit F	UCL Concentration (mg/kg)	6.6E-01	1.9E+01	3.2E-02	4.3E-03	3.9E+01	3.9E-01	1.2E+00
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	8.1E-04	2.3E-02	3.9E-05	5.2E-06	4.8E-02	4.8E-04	1.5E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	7.5E-05	2.2E-03	3.6E-06	4.9E-07	4.4E-03	4.4E-05	1.4E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02							
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.7E-03	4.8E-02	8.0E-05	1.1E-05	9.8E-02	9.8E-04	3.0E-03
5	4A	Phase 4A - Excavation	2.1E+03	1.4E-03	4.0E-02	6.7E-05	9.0E-06	8.2E-02	8.2E-04	2.5E-03
6	4B	Phase 4B - Excavation	3.5E+03	2.3E-03	6.6E-02	1.1E-04	1.5E-05	1.3E-01	1.3E-03	4.1E-03
7	4C	Phase 4C - Excavation	3.4E+03	2.2E-03	6.4E-02	1.1E-04	1.5E-05	1.3E-01	1.3E-03	4.1E-03
8	4D	Phase 4D - Excavation	6.9E+03	4.6E-03	1.3E-01	2.2E-04	3.0E-05	2.7E-01	2.7E-03	8.3E-03
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.4E-04	3.9E-03	6.6E-06	8.9E-07	8.1E-03	8.1E-05	2.5E-04
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	3.9E+03	2.6E-03	7.5E-02	1.3E-04	1.7E-05	1.5E-01	1.5E-03	4.7E-03
15	HAUL_S	Haul Road - South	8.8E+03	5.9E-03	1.7E-01	2.8E-04	3.8E-05	3.5E-01	3.5E-03	1.1E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.1E-05	5.9E-04	1.0E-06	1.3E-07	1.2E-03	1.2E-05	3.8E-05
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	3.6E-05	1.0E-03	1.7E-06	2.3E-07	2.1E-03	2.1E-05	6.5E-05
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	1,4-Dichlorobenzene	1,2-Dibromoethane	1,2-Dichloroethane	M-XYLENE	Chlorobenzene	Aroclor 1254	1,2,4-Trichlorobenzene
			CAS No.	106-46-7	106-93-4	107-06-2	108-38-3	108-90-7	11097-69-1	120-82-1
		Non-Pit F	UCL Concentration (mg/kg)	2.3E-01	6.1E-03	1.0E+01	2.7E+01	6.6E+00	6.1E+00	1.0E-03
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	2.8E-04	7.4E-06	1.2E-02	3.3E-02	8.0E-03	7.4E-03	1.2E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	2.6E-05	6.9E-07	1.1E-03	3.1E-03	7.5E-04	6.9E-04	1.1E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02							
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	5.8E-04	1.5E-05	2.5E-02	6.8E-02	1.7E-02	1.5E-02	2.5E-06
5	4A	Phase 4A - Excavation	2.1E+03	4.8E-04	1.3E-05	2.1E-02	5.6E-02	1.4E-02	1.3E-02	2.1E-06
6	4B	Phase 4B - Excavation	3.5E+03	7.9E-04	2.1E-05	3.5E-02	9.3E-02	2.3E-02	2.1E-02	3.5E-06
7	4C	Phase 4C - Excavation	3.4E+03	7.8E-04	2.1E-05	3.4E-02	9.1E-02	2.2E-02	2.1E-02	3.4E-06
8	4D	Phase 4D - Excavation	6.9E+03	1.6E-03	4.2E-05	6.9E-02	1.9E-01	4.6E-02	4.2E-02	6.9E-06
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	4.8E-05	1.3E-06	2.1E-03	5.6E-03	1.4E-03	1.3E-03	2.1E-07
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	3.9E+03	9.0E-04	2.4E-05	3.9E-02	1.1E-01	2.6E-02	2.4E-02	3.9E-06
15	HAUL_S	Haul Road - South	8.8E+03	2.0E-03	5.4E-05	8.8E-02	2.4E-01	5.8E-02	5.4E-02	8.8E-06
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	7.2E-06	1.9E-07	3.1E-04	8.4E-04	2.1E-04	1.9E-04	3.1E-08
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	1.3E-05	3.3E-07	5.5E-04	1.5E-03	3.6E-04	3.3E-04	5.5E-08
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	HEXANEDIOIC ACID, DIOCTYL ESTER	Aroclor 1248	Aroclor 1016	Tetrachloroethene	Chlordane	Dibenzofuran	6-METHYL-1,1-HEPTANOL
			CAS No.	123-79-5	12672-29-6	12674-11-2	127-18-4	12789-03-6	132-64-9	1653-40-3
		Non-Pit F	UCL Concentration (mg/kg)	7.0E+02	5.2E+00	1.6E+00	7.8E-03	1.4E+00	5.4E-01	3.0E+01
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	8.5E-01	6.3E-03	2.0E-03	9.5E-06	1.7E-03	6.6E-04	3.7E-02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	8.0E-02	5.9E-04	1.8E-04	8.9E-07	1.6E-04	6.1E-05	3.4E-03
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02							
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.8E+00	1.3E-02	4.0E-03	2.0E-05	3.5E-03	1.4E-03	7.5E-02
5	4A	Phase 4A - Excavation	2.1E+03	1.5E+00	1.1E-02	3.3E-03	1.6E-05	2.9E-03	1.1E-03	6.3E-02
6	4B	Phase 4B - Excavation	3.5E+03	2.4E+00	1.8E-02	5.5E-03	2.7E-05	4.8E-03	1.9E-03	1.0E-01
7	4C	Phase 4C - Excavation	3.4E+03	2.4E+00	1.8E-02	5.4E-03	2.6E-05	4.7E-03	1.8E-03	1.0E-01
8	4D	Phase 4D - Excavation	6.9E+03	4.8E+00	3.6E-02	1.1E-02	5.4E-05	9.7E-03	3.7E-03	2.1E-01
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.5E-01	1.1E-03	3.3E-04	1.6E-06	2.9E-04	1.1E-04	6.2E-03
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	3.9E+03	2.8E+00	2.0E-02	6.3E-03	3.1E-05	5.5E-03	2.1E-03	1.2E-01
15	HAUL_S	Haul Road - South	8.8E+03	6.2E+00	4.6E-02	1.4E-02	6.9E-05	1.2E-02	4.8E-03	2.7E-01
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.2E-02	1.6E-04	5.0E-05	2.4E-07	4.4E-05	1.7E-05	9.4E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	3.8E-02	2.8E-04	8.7E-05	4.3E-07	7.6E-05	2.9E-05	1.6E-03
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Chromium (VI)	(1,1-DIMETHYLBUTYL)BENZENE	(1,1-DIMETHYLPROPYL)BENZENE	Benzo(k)fluoranthene	Acenaphthylene
			CAS No.	18540-29-9	1985-57-5	2049-95-8	207-08-9	208-96-8
		Non-Pit F	UCL Concentration (mg/kg)	7.3E-01	3.3E+00	8.3E+00	1.4E-01	2.0E-03
		Pit F	UCL Concentration (mg/kg)	2.5E-01				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	8.9E-04	4.0E-03	1.0E-02	1.7E-04	2.4E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	8.3E-05	3.8E-04	9.4E-04	1.6E-05	2.3E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02	4.8E-05				
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.8E-03	8.3E-03	2.1E-02	3.5E-04	5.0E-06
5	4A	Phase 4A - Excavation	2.1E+03	1.5E-03	6.9E-03	1.7E-02	2.9E-04	4.2E-06
6	4B	Phase 4B - Excavation	3.5E+03	2.5E-03	1.1E-02	2.9E-02	4.8E-04	6.9E-06
7	4C	Phase 4C - Excavation	3.4E+03	2.5E-03	1.1E-02	2.8E-02	4.7E-04	6.8E-06
8	4D	Phase 4D - Excavation	6.9E+03	5.0E-03	2.3E-02	5.7E-02	9.7E-04	1.4E-05
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.5E-04	6.8E-04	1.7E-03	2.9E-05	4.1E-07
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	3.9E+03	2.9E-03	1.3E-02	3.3E-02	5.5E-04	7.9E-06
15	HAUL_S	Haul Road - South	8.8E+03	6.5E-03	2.9E-02	7.3E-02	1.2E-03	1.8E-05
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.3E-05	1.0E-04	2.6E-04	4.4E-06	6.3E-08
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	4.0E-05	1.8E-04	4.5E-04	7.6E-06	1.1E-07
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	ISOOCTANOL	(1-METHYLBUTYL)BENZENE
			CAS No.	22531-20-0	22975-62-8	26952-21-6	2719-52-0
		Non-Pit F	UCL Concentration (mg/kg)	4.1E+00	3.4E+00	1.1E+01	6.1E+00
		Pit F	UCL Concentration (mg/kg)				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	5.0E-03	4.1E-03	1.3E-02	7.4E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	4.7E-04	3.9E-04	1.3E-03	6.9E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02				
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.0E-02	8.5E-03	2.8E-02	1.5E-02
5	4A	Phase 4A - Excavation	2.1E+03	8.6E-03	7.1E-03	2.3E-02	1.3E-02
6	4B	Phase 4B - Excavation	3.5E+03	1.4E-02	1.2E-02	3.8E-02	2.1E-02
7	4C	Phase 4C - Excavation	3.4E+03	1.4E-02	1.2E-02	3.7E-02	2.1E-02
8	4D	Phase 4D - Excavation	6.9E+03	2.8E-02	2.3E-02	7.6E-02	4.2E-02
9	5	Phase 5 - Final Grade					
10	6_1	Phase 6 - Surface Water Control (1 of 2)					
11	6_2	Phase 6 - Surface Water Control (2 of 2)					
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	8.5E-04	7.0E-04	2.3E-03	1.3E-03
13	8	Phase 8 - Site Restoration					
14	HAUL_N	Haul Road - North	3.9E+03	1.6E-02	1.3E-02	4.3E-02	2.4E-02
15	HAUL_S	Haul Road - South	8.8E+03	3.6E-02	3.0E-02	9.7E-02	5.4E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	1.3E-04	1.1E-04	3.4E-04	1.9E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	2.2E-04	1.9E-04	6.0E-04	3.3E-04
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM					
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM					
22	4AD	Phase 4A - Excavation - DPM					
23	4BD	Phase 4B - Excavation - DPM					
24	4CD	Phase 4C - Excavation - DPM					
25	4DD	Phase 4D - Excavation - DPM					
26	7D	Phase 7 - South Coast Oil Corporation - DPM					
27	HAUL_ND	Haul Road - North					
28	HAUL_SD	Haul Road - South					
29	STKP_LND	Stockpile Loading Area - North					
30	STKP_LSD	Stockpile Loading Area - South					
31	OFF_N	Offsite Truck Emissions - North					
32	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	2-CYCLOHEXYLDECANE	alpha-BHC	Endosulfan II	1-METHYLETHYLCYCLOPENTANE	1-ETHYL-4-(1-METHYLETHYL)BENZENE
			CAS No.	2883-05-8	319-84-6	33213-65-9	3875-51-2	4218-48-8
		Non-Pit F	UCL Concentration (mg/kg)	8.1E+00	1.7E-02	1.1E-02	4.2E+00	2.7E+00
		Pit F	UCL Concentration (mg/kg)					
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	9.9E-03	2.1E-05	1.3E-05	5.1E-03	3.3E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	9.2E-04	1.9E-06	1.3E-06	4.8E-04	3.1E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02					
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	2.0E-02	4.3E-05	2.8E-05	1.1E-02	6.8E-03
5	4A	Phase 4A - Excavation	2.1E+03	1.7E-02	3.6E-05	2.3E-05	8.8E-03	5.6E-03
6	4B	Phase 4B - Excavation	3.5E+03	2.8E-02	5.9E-05	3.8E-05	1.5E-02	9.3E-03
7	4C	Phase 4C - Excavation	3.4E+03	2.7E-02	5.8E-05	3.7E-05	1.4E-02	9.1E-03
8	4D	Phase 4D - Excavation	6.9E+03	5.6E-02	1.2E-04	7.6E-05	2.9E-02	1.9E-02
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.7E-03	3.5E-06	2.3E-06	8.7E-04	5.6E-04
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	3.9E+03	3.2E-02	6.7E-05	4.3E-05	1.7E-02	1.1E-02
15	HAUL_S	Haul Road - South	8.8E+03	7.2E-02	1.5E-04	9.7E-05	3.7E-02	2.4E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.5E-04	5.3E-07	3.4E-07	1.3E-04	8.4E-05
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	4.4E-04	9.3E-07	6.0E-07	2.3E-04	1.5E-04
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	OCTAHYDROINDENE	GAMMA-CHLORDANE	1,2,3,5-TETRAMETHYLBENZENE	Aroclor 1242	Endrin ketone	(1-PROPENYL)CYCLOHEXANE
			CAS No.	496-10-6	5103-74-2	527-53-7	53469-21-9	53494-70-5	5364-83-0
		Non-Pit F	UCL Concentration (mg/kg)	3.1E+01	1.7E-02	7.5E+00	4.2E+00	3.0E-03	4.0E+01
		Pit F	UCL Concentration (mg/kg)						
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	3.8E-02	2.1E-05	9.1E-03	5.1E-03	3.7E-06	4.9E-02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	3.5E-03	1.9E-06	8.5E-04	4.8E-04	3.4E-07	4.6E-03
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02						
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	7.8E-02	4.3E-05	1.9E-02	1.1E-02	7.5E-06	1.0E-01
5	4A	Phase 4A - Excavation	2.1E+03	6.5E-02	3.6E-05	1.6E-02	8.8E-03	6.3E-06	8.4E-02
6	4B	Phase 4B - Excavation	3.5E+03	1.1E-01	5.9E-05	2.6E-02	1.5E-02	1.0E-05	1.4E-01
7	4C	Phase 4C - Excavation	3.4E+03	1.0E-01	5.8E-05	2.5E-02	1.4E-02	1.0E-05	1.4E-01
8	4D	Phase 4D - Excavation	6.9E+03	2.1E-01	1.2E-04	5.2E-02	2.9E-02	2.1E-05	2.8E-01
9	5	Phase 5 - Final Grade							
10	6_1	Phase 6 - Surface Water Control (1 of 2)							
11	6_2	Phase 6 - Surface Water Control (2 of 2)							
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	6.4E-03	3.5E-06	1.6E-03	8.7E-04	6.2E-07	8.3E-03
13	8	Phase 8 - Site Restoration							
14	HAUL_N	Haul Road - North	3.9E+03	1.2E-01	6.7E-05	3.0E-02	1.7E-02	1.2E-05	1.6E-01
15	HAUL_S	Haul Road - South	8.8E+03	2.7E-01	1.5E-04	6.6E-02	3.7E-02	2.7E-05	3.5E-01
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	9.7E-04	5.3E-07	2.3E-04	1.3E-04	9.4E-08	1.3E-03
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	1.7E-03	9.3E-07	4.1E-04	2.3E-04	1.6E-07	2.2E-03
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM							
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM							
22	4AD	Phase 4A - Excavation - DPM							
23	4BD	Phase 4B - Excavation - DPM							
24	4CD	Phase 4C - Excavation - DPM							
25	4DD	Phase 4D - Excavation - DPM							
26	7D	Phase 7 - South Coast Oil Corporation - DPM							
27	HAUL_ND	Haul Road - North							
28	HAUL_SD	Haul Road - South							
29	STKP_LND	Stockpile Loading Area - North							
30	STKP_LSD	Stockpile Loading Area - South							
31	OFF_N	Offsite Truck Emissions - North							
32	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	Dibenz(a,h)anthracene	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE
			CAS No.	53-70-3	54340-86-2	5557-93-7
		Non-Pit F	UCL Concentration (mg/kg)	1.7E+00	1.8E+00	7.7E+00
		Pit F	UCL Concentration (mg/kg)			
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**			
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	2.1E-03	2.2E-03	9.4E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	1.9E-04	2.0E-04	8.8E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02			
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	4.3E-03	4.5E-03	1.9E-02
5	4A	Phase 4A - Excavation	2.1E+03	3.6E-03	3.8E-03	1.6E-02
6	4B	Phase 4B - Excavation	3.5E+03	5.9E-03	6.2E-03	2.7E-02
7	4C	Phase 4C - Excavation	3.4E+03	5.8E-03	6.1E-03	2.6E-02
8	4D	Phase 4D - Excavation	6.9E+03	1.2E-02	1.2E-02	5.3E-02
9	5	Phase 5 - Final Grade				
10	6_1	Phase 6 - Surface Water Control (1 of 2)				
11	6_2	Phase 6 - Surface Water Control (2 of 2)				
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	3.5E-04	3.7E-04	1.6E-03
13	8	Phase 8 - Site Restoration				
14	HAUL_N	Haul Road - North	3.9E+03	6.7E-03	7.1E-03	3.0E-02
15	HAUL_S	Haul Road - South	8.8E+03	1.5E-02	1.6E-02	6.8E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	5.3E-05	5.6E-05	2.4E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	9.3E-05	9.8E-05	4.2E-04
18	TRUCK_N	Truck Loading Area - North				
19	TRUCK_S	Truck Loading Area - South				
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM				
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM				
22	4AD	Phase 4A - Excavation - DPM				
23	4BD	Phase 4B - Excavation - DPM				
24	4CD	Phase 4C - Excavation - DPM				
25	4DD	Phase 4D - Excavation - DPM				
26	7D	Phase 7 - South Coast Oil Corporation - DPM				
27	HAUL_ND	Haul Road - North				
28	HAUL_SD	Haul Road - South				
29	STKP_LND	Stockpile Loading Area - North				
30	STKP_LSD	Stockpile Loading Area - South				
31	OFF_N	Offsite Truck Emissions - North				
32	OFF_S	Offsite Truck - South				

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	gamma-BHC (Lindane)	2-Hexanone	Dieldrin	Benzoic acid	Chloroform	1,1,1-Trichloroethane	Methoxychlor	Bromoform
			CAS No.	58-89-9	591-78-6	60-57-1	65-85-0	67-66-3	71-55-6	72-43-5	75-25-2
		Non-Pit F	UCL Concentration (mg/kg)	6.5E-02	3.4E-03	3.1E-02	1.6E-01	2.5E+01	1.3E+01	5.3E-03	4.7E+00
		Pit F	UCL Concentration (mg/kg)								
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	7.9E-05	4.1E-06	3.8E-05	2.0E-04	3.0E-02	1.6E-02	6.5E-06	5.7E-03
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	7.4E-06	3.9E-07	3.5E-06	1.8E-05	2.8E-03	1.5E-03	6.0E-07	5.3E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02								
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.6E-04	8.5E-06	7.8E-05	4.0E-04	6.3E-02	3.3E-02	1.3E-05	1.2E-02
5	4A	Phase 4A - Excavation	2.1E+03	1.4E-04	7.1E-06	6.5E-05	3.3E-04	5.2E-02	2.7E-02	1.1E-05	9.8E-03
6	4B	Phase 4B - Excavation	3.5E+03	2.2E-04	1.2E-05	1.1E-04	5.5E-04	8.6E-02	4.5E-02	1.8E-05	1.6E-02
7	4C	Phase 4C - Excavation	3.4E+03	2.2E-04	1.2E-05	1.0E-04	5.4E-04	8.5E-02	4.4E-02	1.8E-05	1.6E-02
8	4D	Phase 4D - Excavation	6.9E+03	4.5E-04	2.3E-05	2.1E-04	1.1E-03	1.7E-01	9.0E-02	3.7E-05	3.2E-02
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.3E-05	7.0E-07	6.4E-06	3.3E-05	5.2E-03	2.7E-03	1.1E-06	9.7E-04
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	3.9E+03	2.6E-04	1.3E-05	1.2E-04	6.3E-04	9.8E-02	5.1E-02	2.1E-05	1.8E-02
15	HAUL_S	Haul Road - South	8.8E+03	5.8E-04	3.0E-05	2.7E-04	1.4E-03	2.2E-01	1.2E-01	4.7E-05	4.2E-02
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.0E-06	1.1E-07	9.7E-07	5.0E-06	7.8E-04	4.1E-04	1.7E-07	1.5E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	3.5E-06	1.9E-07	1.7E-06	8.7E-06	1.4E-03	7.1E-04	2.9E-07	2.6E-04
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	1,1-Dichloroethane	1,1-Dichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Heptachlor	1,1,2,2-Tetrachloroethane
			CAS No.	75-34-3	75-35-4	76-13-1	76-44-8	79-34-5
		Non-Pit F	UCL Concentration (mg/kg)	7.0E-01	4.3E-03	8.6E+00	2.9E-02	9.4E-02
		Pit F	UCL Concentration (mg/kg)					
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	8.5E-04	5.2E-06	1.0E-02	3.5E-05	1.1E-04
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	8.0E-05	4.9E-07	9.8E-04	3.3E-06	1.1E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02					
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.8E-03	1.1E-05	2.2E-02	7.3E-05	2.4E-04
5	4A	Phase 4A - Excavation	2.1E+03	1.5E-03	9.0E-06	1.8E-02	6.1E-05	2.0E-04
6	4B	Phase 4B - Excavation	3.5E+03	2.4E-03	1.5E-05	3.0E-02	1.0E-04	3.2E-04
7	4C	Phase 4C - Excavation	3.4E+03	2.4E-03	1.5E-05	2.9E-02	9.8E-05	3.2E-04
8	4D	Phase 4D - Excavation	6.9E+03	4.8E-03	3.0E-05	5.9E-02	2.0E-04	6.5E-04
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.5E-04	8.9E-07	1.8E-03	6.0E-06	1.9E-05
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	3.9E+03	2.8E-03	1.7E-05	3.4E-02	1.1E-04	3.7E-04
15	HAUL_S	Haul Road - South	8.8E+03	6.2E-03	3.8E-05	7.6E-02	2.6E-04	8.3E-04
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.2E-05	1.3E-07	2.7E-04	9.1E-07	2.9E-06
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	3.8E-05	2.3E-07	4.7E-04	1.6E-06	5.1E-06
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	BENZYL BUTYL PHTHALATE	N-Nitrosodiphenylamine	1,2,3-Trichlorobenzene	DECAHYDRONAPHTHALENE
			CAS No.	85-68-7	86-30-6	87-61-6	91-17-8
		Non-Pit F	UCL Concentration (mg/kg)	6.3E-01	6.8E-01	1.3E-03	1.5E+01
		Pit F	UCL Concentration (mg/kg)				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	7.7E-04	8.3E-04	1.6E-06	1.8E-02
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	7.2E-05	7.7E-05	1.5E-07	1.7E-03
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02				
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	1.6E-03	1.7E-03	3.3E-06	3.8E-02
5	4A	Phase 4A - Excavation	2.1E+03	1.3E-03	1.4E-03	2.7E-06	3.1E-02
6	4B	Phase 4B - Excavation	3.5E+03	2.2E-03	2.3E-03	4.5E-06	5.2E-02
7	4C	Phase 4C - Excavation	3.4E+03	2.1E-03	2.3E-03	4.4E-06	5.1E-02
8	4D	Phase 4D - Excavation	6.9E+03	4.4E-03	4.7E-03	9.0E-06	1.0E-01
9	5	Phase 5 - Final Grade					
10	6_1	Phase 6 - Surface Water Control (1 of 2)					
11	6_2	Phase 6 - Surface Water Control (2 of 2)					
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.3E-04	1.4E-04	2.7E-07	3.1E-03
13	8	Phase 8 - Site Restoration					
14	HAUL_N	Haul Road - North	3.9E+03	2.5E-03	2.7E-03	5.1E-06	5.9E-02
15	HAUL_S	Haul Road - South	8.8E+03	5.6E-03	6.0E-03	1.2E-05	1.3E-01
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.0E-05	2.1E-05	4.1E-08	4.7E-04
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	3.4E-05	3.7E-05	7.1E-08	8.2E-04
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM					
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM					
22	4AD	Phase 4A - Excavation - DPM					
23	4BD	Phase 4B - Excavation - DPM					
24	4CD	Phase 4C - Excavation - DPM					
25	4DD	Phase 4D - Excavation - DPM					
26	7D	Phase 7 - South Coast Oil Corporation - DPM					
27	HAUL_ND	Haul Road - North					
28	HAUL_SD	Haul Road - South					
29	STKP_LND	Stockpile Loading Area - North					
30	STKP_LSD	Stockpile Loading Area - South					
31	OFF_N	Offsite Truck Emissions - North					
32	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Annual)

			Chemical Name	3,3'-DICHLOROBENZIDINE	Benzidine	1,1,4-6-TETRAMETHYLINDANE	1,2-Dibromo-3-Chloropropane	tert-Butylbenzene	Crystalline Silica
			CAS No.	91-94-1	92-87-5	941-60-6	96-12-8	98-06-6	7631-86-9
		Non-Pit F	UCL Concentration (mg/kg)	8.2E-02		2.0E+00	5.9E-03	2.7E-03	2.8E+05
		Pit F	UCL Concentration (mg/kg)						
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/year)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.2E+03	1.0E-04		2.4E-03	7.2E-06	3.3E-06	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	1.1E+02	9.3E-06		2.3E-04	6.7E-07	3.1E-07	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	1.9E+02						
4	3	Phase 3 - Lagoons 2-5 Removal	2.5E+03	2.1E-04		5.0E-03	1.5E-05	6.8E-06	
5	4A	Phase 4A - Excavation	2.1E+03	1.7E-04		4.2E-03	1.2E-05	5.6E-06	9.3E+00
6	4B	Phase 4B - Excavation	3.5E+03	2.8E-04		6.9E-03	2.0E-05	9.3E-06	9.3E+00
7	4C	Phase 4C - Excavation	3.4E+03	2.8E-04		6.8E-03	2.0E-05	9.1E-06	9.3E+00
8	4D	Phase 4D - Excavation	6.9E+03	5.7E-04		1.4E-02	4.1E-05	1.9E-05	9.3E+00
9	5	Phase 5 - Final Grade							
10	6_1	Phase 6 - Surface Water Control (1 of 2)							
11	6_2	Phase 6 - Surface Water Control (2 of 2)							
12	7	Phase 7 - South Coast Oil Corporation	2.1E+02	1.7E-05		4.1E-04	1.2E-06	5.6E-07	
13	8	Phase 8 - Site Restoration							
14	HAUL_N	Haul Road - North	3.9E+03	3.2E-04		7.9E-03	2.3E-05	1.1E-05	
15	HAUL_S	Haul Road - South	8.8E+03	7.3E-04		1.8E-02	5.2E-05	2.4E-05	
16	STKP_L_N	Stockpile Loading Area - North	3.1E+01	2.6E-06		6.3E-05	1.8E-07	8.4E-08	
17	STKP_L_S	Stockpile Loading Area - South	5.5E+01	4.5E-06		1.1E-04	3.2E-07	1.5E-07	
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM							
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM							
22	4AD	Phase 4A - Excavation - DPM							
23	4BD	Phase 4B - Excavation - DPM							
24	4CD	Phase 4C - Excavation - DPM							
25	4DD	Phase 4D - Excavation - DPM							
26	7D	Phase 7 - South Coast Oil Corporation - DPM							
27	HAUL_ND	Haul Road - North							
28	HAUL_SD	Haul Road - South							
29	STKP_LND	Stockpile Loading Area - North							
30	STKP_LSD	Stockpile Loading Area - South							
31	OFF_N	Offsite Truck Emissions - North							
32	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Total PM10 Emissions Inventory (lbs/hour)a					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	**Phase**	**Subphase**	**Silica**	**Fugitive Dust**	**Fugitive Dust**	**DPM**	**Road Dust**	**Idle_DPM**
1.1	**Mobilization**	Maintain haul roads for duration of project						
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade			3.1E-01	2.9E-04	1.1E-01	8.9E-04
2.2	**Pit F**	Traffic Control and Temporary Fencing						
2.3	**Pit F**	Assemble Sprung Structure						
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)		9.2E-03				
2.5	**Pit F**	Transport and Dispose of Impacted Material				1.5E-04	1.1E+00	8.0E-03
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)		3.7E-02				
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material				4.4E-03	1.6E+00	1.1E-02
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation			3.0E-01	2.9E-04	1.1E-01	8.9E-04
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	2.5E-01			2.9E-04	1.1E-01	8.9E-04
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		3.7E-02				
4a.4	**North Parcel**	Transport and dispose of excavated material				4.4E-03	1.6E+00	1.1E-02
4a.5	**North Parcel**	Backfill with rock				9.8E-04	3.9E-01	2.7E-03
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)				9.8E-04	4.7E-01	3.6E-03
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation			3.1E-01	2.9E-04	1.1E-01	8.9E-04
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	3.7E-01			2.9E-04	1.1E-01	8.9E-04
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		3.7E-02				
4b.4	**East Parcel**	Transport and dispose of excavated material				4.4E-03	1.6E+00	1.1E-02
4b.5	**East Parcel**	Backfill with rock				9.8E-04	3.9E-01	2.7E-03
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)				9.8E-04	4.7E-01	3.6E-03
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation			3.0E-01	2.9E-04	1.1E-01	8.9E-04
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	2.5E-01			2.9E-04	1.1E-01	8.9E-04
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		3.7E-02				
4c.4	**Central Parcel**	Transport and dispose of excavated material				4.4E-03	1.6E+00	1.1E-02
4c.5	**Central Parcel**	Backfill with rock				9.8E-04	3.9E-01	2.7E-03
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)				9.8E-04	4.7E-01	3.6E-03
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation			2.9E-01	4.7E-04	1.9E-01	8.9E-04
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	2.5E-01			4.7E-04	1.9E-01	8.9E-04
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)		3.7E-02				
4d.4	**South and West Parcel**	Transport and dispose of excavated material				7.1E-03	2.5E+00	1.1E-02
4d.5	**South and West Parcel**	Backfill with rock				1.6E-03	6.3E-01	2.7E-03
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)				1.6E-03	7.6E-01	3.6E-03
5.1	**Final Grade**	Backfill to final grade				5.6E-04	4.5E+00	2.3E-03
5.2	**Final Grade**	Install haul road				6.2E-04	3.0E-01	1.8E-03
6.1	**Fill to Final Grade**	Install detention basins						

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Total PM10 Emissions Inventory (lbs/hour)a								Step 3 - Allocate emissions for individual AERM			
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]	Off-site Truck Haul Path /	Excavation		North Ha
Phase No.	Phase	Subphase	DPM	DPM	Road Dust	Idle_DPM	Fugitive Dust	Fugitive Dust	DPM	DPM	Stockpile Area	Area Wide	Stockpile	DPM
1.1	Mobilization	Maintain haul roads for duration of project		6.2E-04	1.8E-01	1.8E-03								
2.1	Pit F	Clear and grub, prepare haul roads, initial grade		6.2E-04	1.8E-01	1.8E-03			2.0E-04	1.2E-04	North			0
2.2	Pit F	Traffic Control and Temporary Fencing		6.2E-04	1.8E-01	1.8E-03								
2.3	Pit F	Assemble Sprung Structure	4.9E-02											
2.4	Pit F	Slurry Trench Excavation(waste in bins)		1.2E-03	3.7E-01	3.6E-03	1.3E-05	3.3E-05			North	0	0	
2.5	Pit F	Transport and Dispose of Impacted Material							1.8E-03	1.1E-03	North			0
3.1	Cut/Fill to Top of Waste	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)		2.5E-03	3.4E+00	7.1E-03	1.3E-05	3.3E-05			50/50	0	0	
3.2	Cut/Fill to Top of Waste	Transport and dispose of Lagoons 3, 4 and 5 material							2.4E-03	1.5E-03	50/50			0
4a.1	North Parcel	Clear, grub, and dispose of existing vegetation							2.0E-04	1.2E-04	North			0
4a.2	North Parcel	Consolidate concrete rubble (performed concurrently with Task 3)		6.2E-04	1.8E-01	1.8E-03			2.0E-04	1.2E-04	North			0
4a.3	North Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)		2.5E-03	3.4E+00	7.1E-03	1.3E-05	3.3E-05			North	0	0	0
4a.4	North Parcel	Transport and dispose of excavated material							2.4E-03	1.5E-03	North			0
4a.5	North Parcel	Backfill with rock		6.2E-04	1.8E-01	1.8E-03			6.0E-04	3.7E-04	North			0
4a.6	North Parcel	Backfill with soil (performed concurrently with Task 5)		6.2E-04	1.8E-01	1.8E-03			8.0E-04	4.9E-04	North			0
4b.1	East Parcel	Clear, grub, and dispose of existing vegetation							2.0E-04	1.2E-04	North			0
4b.2	East Parcel	Consolidate concrete rubble (performed concurrently with Task 3)		6.2E-04	1.8E-01	1.8E-03			2.0E-04	1.2E-04	North			0
4b.3	East Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)		2.5E-03	3.4E+00	7.1E-03	1.3E-05	3.3E-05				0	0	
4b.4	East Parcel	Transport and dispose of excavated material							2.4E-03	1.5E-03	North			0
4b.5	East Parcel	Backfill with rock		6.2E-04	1.8E-01	1.8E-03			6.0E-04	3.7E-04	North			0
4b.6	East Parcel	Backfill with soil (performed concurrently with Task 5)		6.2E-04	1.8E-01	1.8E-03			8.0E-04	4.9E-04	North			0
4c.1	Central Parcel	Clear, grub, and dispose of existing vegetation							2.0E-04	1.2E-04	South			
4c.2	Central Parcel	Consolidate concrete rubble (performed concurrently with Task 3)		6.2E-04	1.8E-01	1.8E-03			2.0E-04	1.2E-04	South			
4c.3	Central Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)		2.5E-03	3.4E+00	7.1E-03	1.3E-05	3.3E-05				0	0	
4c.4	Central Parcel	Transport and dispose of excavated material							2.4E-03	1.5E-03	South			
4c.5	Central Parcel	Backfill with rock		6.2E-04	1.8E-01	1.8E-03			6.0E-04	3.7E-04	South			
4c.6	Central Parcel	Backfill with soil (performed concurrently with Task 5)		6.2E-04	1.8E-01	1.8E-03			8.0E-04	4.9E-04	South			
4d.1	South and West Parcel	Clear, grub, and dispose of existing vegetation							2.0E-04	1.2E-04	South			
4d.2	South and West Parcel	Consolidate concrete rubble (performed concurrently with Task 3)		6.2E-04	1.8E-01	1.8E-03			2.0E-04	1.2E-04	South			
4d.3	South and West Parcel	Excavate to EL 0.00 (performed concurrently with Task 4)		2.5E-03	3.4E+00	7.1E-03	1.3E-05	3.3E-05				0	0	
4d.4	South and West Parcel	Transport and dispose of excavated material							2.4E-03	1.5E-03	South			
4d.5	South and West Parcel	Backfill with rock		6.2E-04	1.8E-01	1.8E-03			6.0E-04	3.7E-04	South			
4d.6	South and West Parcel	Backfill with soil (performed concurrently with Task 5)		6.2E-04	1.8E-01	1.8E-03			8.0E-04	4.9E-04	South			
5.1	Final Grade	Backfill to final grade		1.2E-03	3.7E-01	3.6E-03			1.1E-03	6.7E-04	50/50			0
5.2	Final Grade	Install haul road		1.2E-03	3.7E-01	3.6E-03			4.0E-04	2.5E-04	50/50			0
6.1	Fill to Final Grade	Install detention basins		6.2E-04	1.8E-01	1.8E-03								

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			OD sources												
			ıul Road	South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**	**Dust**	**DPM**	**Dust**	**Loading**	**Wash**	**Loading**	**Wash**	**DPM**	**Dust**	**Dust**	**Concrete**	**DPM**	**DPM**
1.1	**Mobilization**	Maintain haul roads for duration of project								0	0	0	0		
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	0			0	0			0	0	0	0	0	0
2.2	**Pit F**	Traffic Control and Temporary Fencing								0	0	0	0		
2.3	**Pit F**	Assemble Sprung Structure								0	0	0	0		
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)								0	0	0	0		
2.5	**Pit F**	Transport and Dispose of Impacted Material	1			0	0			0	0	0	0	1	1
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)								0	3	0	0		
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	1	0	1	0	0	0	0	0	0	0	0	2	1
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	0			0	0			0	0	0	0	0	0
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0			0	0			0	0	0	0	0	0
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0			0	0			0	3	0	0		
4a.4	**North Parcel**	Transport and dispose of excavated material	2			0	0			0	0	0	0	1	1
4a.5	**North Parcel**	Backfill with rock	0			0	0			0	0	0	0	0	0
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	0			0	0			0	0	0	0	0	0
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	0			0	0			0	0	0	0	0	0
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0			0	0			0	0	0	0	0	0
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								0	3	0	0		
4b.4	**East Parcel**	Transport and dispose of excavated material	2			0	0			0	0	0	0	3	2
4b.5	**East Parcel**	Backfill with rock	0			0	0			0	0	0	0	0	0
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	0			0	0			0	0	0	0	0	0
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation		0	0			0	0	0	0	0	0	0	0
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)		0	0			0	0	0	0	0	0	0	0
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								0	3	0	0		
4c.4	**Central Parcel**	Transport and dispose of excavated material		0	2			0	0	0	0	0	0	2	1
4c.5	**Central Parcel**	Backfill with rock		0	0			0	0	0	0	0	0	0	0
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)		0	0			0	0	0	0	0	0	0	0
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation		0	0			0	0	0	0	0	0	0	0
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)		0	0			0	0	0	0	0	0	0	0
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)								0	3	0	0		
4d.4	**South and West Parcel**	Transport and dispose of excavated material		0	3			0	0	0	0	0	0	5	3
4d.5	**South and West Parcel**	Backfill with rock		0	1			0	0	0	0	0	0	0	0
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)		0	1			0	0	0	0	0	0	0	0
5.1	**Final Grade**	Backfill to final grade		0		0	0	0	0	0		0	0	1	1
5.2	**Final Grade**	Install haul road		0		0	0	0	0	0		0	0	0	0
6.1	**Fill to Final Grade**	Install detention basins								0		0	0		

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Fugitive Dust Emissions (lbs/hour)f				
			Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South
Phase No.	**Phase**	**Subphase**					
1.1	**Mobilization**	Maintain haul roads for duration of project	0				
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	0	0			
2.2	**Pit F**	Traffic Control and Temporary Fencing	0				
2.3	**Pit F**	Assemble Sprung Structure	0				
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)	0				
2.5	**Pit F**	Transport and Dispose of Impacted Material	0	1			
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	3			9.2E-03	0
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	0	1	1		
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	0	0			
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0	0			
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3			0	
4a.4	**North Parcel**	Transport and dispose of excavated material	0	2			
4a.5	**North Parcel**	Backfill with rock	0	0			
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	0	0			
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	0	0			
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0	0			
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3			0	
4b.4	**East Parcel**	Transport and dispose of excavated material	0	2			
4b.5	**East Parcel**	Backfill with rock	0	0			
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	0	0			
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation	0		0		
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0		0		
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3				0
4c.4	**Central Parcel**	Transport and dispose of excavated material	0		2		
4c.5	**Central Parcel**	Backfill with rock	0		0		
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)	0		0		
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation	0		0		
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0		0		
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	3				0
4d.4	**South and West Parcel**	Transport and dispose of excavated material	0		3		
4d.5	**South and West Parcel**	Backfill with rock	0		1		
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)	0		1		
5.1	**Final Grade**	Backfill to final grade	0	0	0		
5.2	**Final Grade**	Install haul road	0	0	0		
6.1	**Fill to Final Grade**	Install detention basins	0				

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Diesel Particulate Emissions (lbs/hour)f								
			Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South	Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**									
1.1	**Mobilization**	Maintain haul roads for duration of project	0								
2.1	**Pit F**	Clear and grub, prepare haul roads, initial grade	0	0		0		0		0	0
2.2	**Pit F**	Traffic Control and Temporary Fencing	0								
2.3	**Pit F**	Assemble Sprung Structure	0								
2.4	**Pit F**	Slurry Trench Excavation(waste in bins)	0								
2.5	**Pit F**	Transport and Dispose of Impacted Material		0		0		0		1	1
3.1	**Cut/Fill to Top of Waste**	Remove lagoon material, lagoons 3, 4 and 5 (performed concurrently with Task 2)	0								
3.2	**Cut/Fill to Top of Waste**	Transport and dispose of Lagoons 3, 4 and 5 material	0	0	0	0	0	0	0	2	1
4a.1	**North Parcel**	Clear, grub, and dispose of existing vegetation	0	0		0		0		0	0
4a.2	**North Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0	0		0		0		0	0
4a.3	**North Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0								
4a.4	**North Parcel**	Transport and dispose of excavated material	0	0		0		0		1	1
4a.5	**North Parcel**	Backfill with rock	0	0		0		0		0	0
4a.6	**North Parcel**	Backfill with soil (performed concurrently with Task 5)	0	0		0		0		0	0
4b.1	**East Parcel**	Clear, grub, and dispose of existing vegetation	0	0		0		0		0	0
4b.2	**East Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0	0		0		0		0	0
4b.3	**East Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0								
4b.4	**East Parcel**	Transport and dispose of excavated material	0	0		0		0		3	2
4b.5	**East Parcel**	Backfill with rock	0	0		0		0		0	0
4b.6	**East Parcel**	Backfill with soil (performed concurrently with Task 5)	0	0		0		0		0	0
4c.1	**Central Parcel**	Clear, grub, and dispose of existing vegetation	0		0		0		0	0	0
4c.2	**Central Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0		0		0		0	0	0
4c.3	**Central Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0								
4c.4	**Central Parcel**	Transport and dispose of excavated material	0		0		0		0	2	1
4c.5	**Central Parcel**	Backfill with rock	0		0		0		0	0	0
4c.6	**Central Parcel**	Backfill with soil (performed concurrently with Task 5)	0		0		0		0	0	0
4d.1	**South and West Parcel**	Clear, grub, and dispose of existing vegetation	0		0		0		0	0	0
4d.2	**South and West Parcel**	Consolidate concrete rubble (performed concurrently with Task 3)	0		0		0		0	0	0
4d.3	**South and West Parcel**	Excavate to EL 0.00 (performed concurrently with Task 4)	0								
4d.4	**South and West Parcel**	Transport and dispose of excavated material	0		0		0		0	5	3
4d.5	**South and West Parcel**	Backfill with rock	0		0		0		0	0	0
4d.6	**South and West Parcel**	Backfill with soil (performed concurrently with Task 5)	0		0		0		0	0	0
5.1	**Final Grade**	Backfill to final grade	0	0	0	0	0	0	0	1	1
5.2	**Final Grade**	Install haul road	0	0	0	0	0	0	0	0	0
6.1	**Fill to Final Grade**	Install detention basins	0								

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Total PM10 Emissions Inventory (lbs/hour)a					
			Concrete Breaking	Excavation[b]	Grubbing / Grading	Off-site Truck[c]		
Phase No.	**Phase**	**Subphase**	**Silica**	**Fugitive Dust**	**Fugitive Dust**	**DPM**	**Road Dust**	**Idle_DPM**
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)						
7.1	**South Coast Oil Corporation**	Cut		3.7E-02				
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material				7.1E-03	2.5E+00	1.1E-02
7.3	**South Coast Oil Corporation**	Backfill with rock				1.6E-03	6.3E-01	2.7E-03
7.4	**South Coast Oil Corporation**	Backfill to grade				5.5E-03	2.0E+00	8.0E-03
8.1	**Site Restoration**	Site Restoration				1.9E-04	9.2E-02	8.9E-04

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering materials and supplies.

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these emissions are not included in the HRA.

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Total PM10 Emissions Inventory (lbs/hour)a							
			On-site Equipment	On-site Truck[d]			Wind erosion - Stabilized	Wind Erosion - Unstabilized	Off-site Haul (North)[e]	Off-site Haul (South)[e]
Phase No.	**Phase**	**Subphase**	**DPM**	**DPM**	**Road Dust**	**Idle_DPM**	**Fugitive Dust**	**Fugitive Dust**	**DPM**	**DPM**
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)		1.2E-03	3.7E-01	3.6E-03				
7.1	**South Coast Oil Corporation**	Cut		1.2E-03	3.1E+00	3.6E-03	1.3E-05	3.3E-05		
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material		6.2E-04	1.8E-01	1.8E-03			2.4E-03	1.5E-03
7.3	**South Coast Oil Corporation**	Backfill with rock		6.2E-04	1.8E-01	1.8E-03			6.0E-04	3.7E-04
7.4	**South Coast Oil Corporation**	Backfill to grade		6.2E-04	1.8E-01	1.8E-03			1.8E-03	1.1E-03
8.1	**Site Restoration**	Site Restoration							2.0E-04	1.2E-04

Step 3 - Allocate emissions for individual AERM

Off-site Truck Haul Path / Stockpile Area	Excavation		North Ha
	Area Wide	Stockpile	DPM
	1.83E-02	1.83E-02	
South			
South			
South			
Area Wide			

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

OD sources

			ıul Road	South Haul Road		North Idling		South Idling		On-site Truck + Equipment		Grubbing, Grading, Wind Erosion		Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**	**Dust**	**DPM**	**Dust**	**Loading**	**Wash**	**Loading**	**Wash**	**DPM**	**Dust**	**Dust**	**Concrete**	**DPM**	**DPM**
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)								0		0	0		
7.1	**South Coast Oil Corporation**	Cut								4.81E-03	3	0	0		
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material		7.10E-03	2.52E+00			5.35E-03	5.35E-03	2.41E-03	1.83E-01	0	0	0	0
7.3	**South Coast Oil Corporation**	Backfill with rock		1.58E-03	6.30E-01			1.34E-03	1.34E-03	2.41E-03	1.83E-01	0	0	0	0
7.4	**South Coast Oil Corporation**	Backfill to grade		5.52E-03	2.02E+00			4.01E-03	4.01E-03	2.41E-03	1.83E-01	0	0	0	0
8.1	**Site Restoration**	Site Restoration								0		0	0	0	0

[a] Emissions inventory prepared for Interim Deliverable #2 0

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these 0

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Fugitive Dust Emissions (lbs/hour)f				
			Area Wide Fugitive Dust	Haul Road North	Haul Road South	Stockpile North	Stockpile South
Phase No.	**Phase**	**Subphase**					
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)	0				
7.1	**South Coast Oil Corporation**	Cut	3				0
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material	0		3		
7.3	**South Coast Oil Corporation**	Backfill with rock	0		1		
7.4	**South Coast Oil Corporation**	Backfill to grade	0		2		
8.1	**Site Restoration**	Site Restoration					

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Formatting - Alternative 6 (Hourly)

			Diesel Particulate Emissions (lbs/hour)f								
			Area Wide (DPM)	Haul Road North	Haul Road South	Stockpile North	Stockpile South	Truck Wash North	Truck Wash South	Off-site Haul (North)	Off-site Haul (South)
Phase No.	**Phase**	**Subphase**									
6.2	**Fill to Final Grade**	Install V-ditch (performed concurrently with Task 1)	0								
7.1	**South Coast Oil Corporation**	Cut	0								
7.2	**South Coast Oil Corporation**	Transport and dispose of excavated material	0		0		0		0	0	0
7.3	**South Coast Oil Corporation**	Backfill with rock	0		0		0		0	0	0
7.4	**South Coast Oil Corporation**	Backfill to grade	0		0		0		0	0	0
8.1	**Site Restoration**	Site Restoration	0							0	0

[a] Emissions inventory prepared for Interim Deliverable #2

[b] Excavation activities assume soil handling at excavation site and stockpile areas

[c] Off-site Truck emissions include on-road trucks travelling on-site, importing or exporting soil, or delivering mate

[d] On-site Truck emissions include off-road trucks travelling on-site.

[e] Off-site Haul Truck emissions trucks travelling on public roads within 1/4 mile of the site.

[f] Emissions separated by fugitive dust and diesel particulate matter.

Note: Shaded cells in the table assume that contaminated soil has been removed from the site. Therefore, these

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

		Chemical Name	Diesel Particulate	Ethylbenzene	Styrene	n-Propylbenzene	n-Butylbenzene	1,3,5-Trimethylbenzene	Toluene	Phenol
		CAS No.	9901	100-41-4	100-42-5	103-65-1	104-51-8	108-67-8	108-88-3	108-95-2
	Non-Pit F	UCL Concentration (mg/kg)	1.0E+00	1.3E+01	8.2E+00	1.6E+00	2.9E-01	9.0E-01	9.8E-01	1.1E-01
	Pit F	UCL Concentration (mg/kg)	1.0E+00	2.5E+00	2.9E+01					

Order	SourceID	Source Description	Area Wide Fugitive Dust (lbs/hour)	Diesel Particulate (lbs/hour)						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	2.4E-03	2.4E-06	1.5E-06	2.9E-07	5.3E-08	1.6E-07	1.8E-07	2.0E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01		8.8E-06	5.5E-06	1.1E-06	1.9E-07	6.0E-07	6.6E-07	7.4E-08
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01	4.8E-03	9.3E-07	1.1E-05					
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00		4.5E-05	2.8E-05	5.5E-06	1.0E-06	3.1E-06	3.4E-06	3.8E-07
5	4A	Phase 4A - Excavation	4.3E+00		5.6E-05	3.5E-05	6.9E-06	1.2E-06	3.9E-06	4.2E-06	4.7E-07
6	4B	Phase 4B - Excavation	4.3E+00		5.6E-05	3.5E-05	6.9E-06	1.2E-06	3.9E-06	4.2E-06	4.7E-07
7	4C	Phase 4C - Excavation	4.3E+00		5.6E-05	3.5E-05	6.9E-06	1.2E-06	3.9E-06	4.2E-06	4.7E-07
8	4D	Phase 4D - Excavation	4.3E+00		5.6E-05	3.5E-05	6.9E-06	1.2E-06	3.9E-06	4.2E-06	4.7E-07
9	5	Phase 5 - Final Grade		9.6E-03							
10	6_1	Phase 6 - Surface Water Control (1 of 2)		2.4E-03							
11	6_2	Phase 6 - Surface Water Control (2 of 2)		4.8E-03							
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00		4.7E-05	3.0E-05	5.8E-06	1.1E-06	3.3E-06	3.6E-06	4.0E-07
13	8	Phase 8 - Site Restoration		1.1E-03							
14	HAUL_N	Haul Road - North	7.3E+00		9.6E-05	6.0E-05	1.2E-05	2.1E-06	6.6E-06	7.2E-06	8.1E-07
15	HAUL_S	Haul Road - South	1.3E+01		1.7E-04	1.1E-04	2.1E-05	3.7E-06	1.2E-05	1.3E-05	1.4E-06
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02		6.0E-07	3.7E-07	7.3E-08	1.3E-08	4.1E-08	4.5E-08	5.0E-09
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02		8.3E-07	5.2E-07	1.0E-07	1.9E-08	5.8E-08	6.3E-08	7.0E-09
18	TRUCK_N	Truck Loading Area - North		2.7E-02							
19	TRUCK_S	Truck Loading Area - South		3.3E-02							
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM		5.4E-02							
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM		9.6E-03							
22	4AD	Phase 4A - Excavation - DPM		1.7E-02							
23	4BD	Phase 4B - Excavation - DPM		1.7E-02							
24	4CD	Phase 4C - Excavation - DPM		1.7E-02							
25	4DD	Phase 4D - Excavation - DPM		1.7E-02							
26	7D	Phase 7 - South Coast Oil Corporation - DPM		1.2E-02							
27	HAUL_ND	Haul Road - North		1.7E-02							
28	HAUL_SD	Haul Road - South		3.5E-02							
29	STKP_LND	Stockpile Loading Area - North		2.7E-02							
30	STKP_LSD	Stockpile Loading Area - South		3.3E-02							
31	OFF_N	Offsite Truck Emissions - North		2.7E-02							
32	OFF_S	Offsite Truck - South		3.3E-02							

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Aroclor 1260	BIS(2-ETHYLHEXYL) PHTHALATE	Anthracene	Pyrene	XYLENES (TOTAL)	(1-METHYLPROPYL)BENZENE	m,p-Xylenes
			CAS No.	11096-82-5	117-81-7	120-12-7	129-00-0	1330-20-7	135-98-8	179601-23-1
		Non-Pit F	UCL Concentration (mg/kg)	8.6E-02	1.1E+01	8.0E-01	2.5E-01	5.0E+00	7.1E+00	2.2E+00
		Pit F	UCL Concentration (mg/kg)		2.0E+02				2.8E+01	
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.6E-08	2.0E-06	1.5E-07	4.7E-08	9.1E-07	1.3E-06	4.1E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	5.8E-08	7.2E-06	5.4E-07	1.7E-07	3.3E-06	4.8E-06	1.5E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01		7.4E-05				1.0E-05	
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	3.0E-07	3.7E-05	2.8E-06	8.8E-07	1.7E-05	2.5E-05	7.7E-06
5	4A	Phase 4A - Excavation	4.3E+00	3.7E-07	4.6E-05	3.4E-06	1.1E-06	2.1E-05	3.1E-05	9.5E-06
6	4B	Phase 4B - Excavation	4.3E+00	3.7E-07	4.6E-05	3.5E-06	1.1E-06	2.1E-05	3.1E-05	9.6E-06
7	4C	Phase 4C - Excavation	4.3E+00	3.7E-07	4.6E-05	3.4E-06	1.1E-06	2.1E-05	3.1E-05	9.5E-06
8	4D	Phase 4D - Excavation	4.3E+00	3.7E-07	4.6E-05	3.4E-06	1.1E-06	2.1E-05	3.0E-05	9.5E-06
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	3.1E-07	3.9E-05	2.9E-06	9.2E-07	1.8E-05	2.6E-05	8.1E-06
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	7.3E+00	6.3E-07	7.9E-05	5.9E-06	1.9E-06	3.6E-05	5.2E-05	1.6E-05
15	HAUL_S	Haul Road - South	1.3E+01	1.1E-06	1.4E-04	1.0E-05	3.3E-06	6.4E-05	9.1E-05	2.9E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.9E-09	4.9E-07	3.7E-08	1.2E-08	2.3E-07	3.2E-07	1.0E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	5.5E-09	6.9E-07	5.1E-08	1.6E-08	3.2E-07	4.5E-07	1.4E-07
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Benzo(b)fluoranthene	Fluoranthene	Chrysene	beta-BHC	4,4'-DDT	Benzo(a)pyrene
			CAS No.	191-24-2	193-39-5	205-99-2	206-44-0	218-01-9	319-85-7	50-29-3	50-32-8
		Non-Pit F	UCL Concentration (mg/kg)	1.9E-02	1.3E-02	1.9E-02	2.3E-01	1.6E-01	1.6E-02	3.8E-03	3.1E-01
		Pit F	UCL Concentration (mg/kg)				1.1E+03				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	3.4E-09	2.3E-09	3.6E-09	4.3E-08	2.8E-08	3.0E-09	6.9E-10	5.8E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	1.3E-08	8.5E-09	1.3E-08	1.6E-07	1.0E-07	1.1E-08	2.5E-09	2.1E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01				4.1E-04				
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	6.5E-08	4.4E-08	6.7E-08	8.1E-07	5.4E-07	5.7E-08	1.3E-08	1.1E-06
5	4A	Phase 4A - Excavation	4.3E+00	8.0E-08	5.5E-08	8.3E-08	1.0E-06	6.7E-07	7.1E-08	1.6E-08	1.4E-06
6	4B	Phase 4B - Excavation	4.3E+00	8.1E-08	5.5E-08	8.4E-08	1.0E-06	6.7E-07	7.1E-08	1.6E-08	1.4E-06
7	4C	Phase 4C - Excavation	4.3E+00	8.0E-08	5.5E-08	8.3E-08	1.0E-06	6.7E-07	7.1E-08	1.6E-08	1.4E-06
8	4D	Phase 4D - Excavation	4.3E+00	8.0E-08	5.4E-08	8.3E-08	1.0E-06	6.7E-07	7.0E-08	1.6E-08	1.3E-06
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	6.8E-08	4.6E-08	7.1E-08	8.5E-07	5.6E-07	6.0E-08	1.4E-08	1.1E-06
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	7.3E+00	1.4E-07	9.3E-08	1.4E-07	1.7E-06	1.1E-06	1.2E-07	2.8E-08	2.3E-06
15	HAUL_S	Haul Road - South	1.3E+01	2.4E-07	1.6E-07	2.5E-07	3.0E-06	2.0E-06	2.1E-07	4.9E-08	4.0E-06
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	8.6E-10	5.8E-10	8.9E-10	1.1E-08	7.1E-09	7.5E-10	1.7E-10	1.4E-08
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	1.2E-09	8.1E-10	1.2E-09	1.5E-08	9.9E-09	1.1E-09	2.4E-10	2.0E-08
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	BENZ[A]ANTHRACENE	2-PROPANONE	Benzene	4,4'-DDD	4,4'-DDE	Endrin aldehyde	Lead	Mercury	Molybdenum	Nickel
			CAS No.	56-55-3	67-64-1	71-43-2	72-54-8	72-55-9	7421-93-4	7439-92-1	7439-97-6	7439-98-7	7440-02-0
		Non-Pit F	UCL Concentration (mg/kg)	1.6E-02	1.9E+00	6.1E-01	2.7E-03	5.2E-03	2.0E-03	1.3E+02	9.9E-01	1.8E+00	2.7E+01
		Pit F	UCL Concentration (mg/kg)		9.5E-01					9.7E+00	1.2E-01		5.2E+00
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**										
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	2.9E-09	3.5E-07	1.1E-07	5.0E-10	9.4E-10	3.7E-10	2.4E-05	1.8E-07	3.3E-07	4.9E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	1.1E-08	1.3E-06	4.1E-07	1.8E-09	3.5E-09	1.4E-09	8.9E-05	6.7E-07	1.2E-06	1.8E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01		3.5E-07					3.6E-06	4.5E-08		1.9E-06
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	5.5E-08	6.6E-06	2.1E-06	9.5E-09	1.8E-08	7.0E-09	4.6E-04	3.4E-06	6.3E-06	9.3E-05
5	4A	Phase 4A - Excavation	4.3E+00	6.8E-08	8.2E-06	2.6E-06	1.2E-08	2.2E-08	8.7E-09	5.7E-04	4.3E-06	7.8E-06	1.2E-04
6	4B	Phase 4B - Excavation	4.3E+00	6.9E-08	8.2E-06	2.6E-06	1.2E-08	2.2E-08	8.7E-09	5.7E-04	4.3E-06	7.8E-06	1.2E-04
7	4C	Phase 4C - Excavation	4.3E+00	6.8E-08	8.2E-06	2.6E-06	1.2E-08	2.2E-08	8.7E-09	5.7E-04	4.3E-06	7.8E-06	1.2E-04
8	4D	Phase 4D - Excavation	4.3E+00	6.8E-08	8.1E-06	2.6E-06	1.2E-08	2.2E-08	8.7E-09	5.7E-04	4.3E-06	7.8E-06	1.2E-04
9	5	Phase 5 - Final Grade											
10	6_1	Phase 6 - Surface Water Control (1 of 2)											
11	6_2	Phase 6 - Surface Water Control (2 of 2)											
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	5.8E-08	6.9E-06	2.2E-06	1.0E-08	1.9E-08	7.3E-09	4.8E-04	3.6E-06	6.6E-06	9.8E-05
13	8	Phase 8 - Site Restoration											
14	HAUL_N	Haul Road - North	7.3E+00	1.2E-07	1.4E-05	4.5E-06	2.0E-08	3.8E-08	1.5E-08	9.7E-04	7.3E-06	1.3E-05	2.0E-04
15	HAUL_S	Haul Road - South	1.3E+01	2.0E-07	2.4E-05	7.9E-06	3.5E-08	6.6E-08	2.6E-08	1.7E-03	1.3E-05	2.3E-05	3.5E-04
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	7.3E-10	8.7E-08	2.8E-08	1.3E-10	2.4E-10	9.2E-11	6.1E-06	4.5E-08	8.3E-08	1.2E-06
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	1.0E-09	1.2E-07	3.9E-08	1.8E-10	3.3E-10	1.3E-10	8.5E-06	6.4E-08	1.2E-07	1.7E-06
18	TRUCK_N	Truck Loading Area - North											
19	TRUCK_S	Truck Loading Area - South											
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM											
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM											
22	4AD	Phase 4A - Excavation - DPM											
23	4BD	Phase 4B - Excavation - DPM											
24	4CD	Phase 4C - Excavation - DPM											
25	4DD	Phase 4D - Excavation - DPM											
26	7D	Phase 7 - South Coast Oil Corporation - DPM											
27	HAUL_ND	Haul Road - North											
28	HAUL_SD	Haul Road - South											
29	STKP_LND	Stockpile Loading Area - North											
30	STKP_LSD	Stockpile Loading Area - South											
31	OFF_N	Offsite Truck Emissions - North											
32	OFF_S	Offsite Truck - South											

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Silver	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc
			CAS No.	7440-22-4	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6
		Non-Pit F	UCL Concentration (mg/kg)	4.0E-01	1.4E+01	1.7E+00	8.7E+00	2.6E+02	4.6E-01	8.9E-01	4.0E+01	8.8E+00	2.8E+02	4.2E+01	1.6E+02
		Pit F	UCL Concentration (mg/kg)				1.2E+00	7.3E+01		1.5E-01	3.2E+00		1.2E+01	7.0E+00	2.4E+01
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**												
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	7.3E-08	2.5E-06	3.1E-07	1.6E-06	4.8E-05	8.4E-08	1.6E-07	7.4E-06	1.6E-06	5.1E-05	7.7E-06	3.0E-05
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	2.7E-07	9.4E-06	1.2E-06	5.9E-06	1.8E-04	3.1E-07	6.0E-07	2.7E-05	6.0E-06	1.9E-04	2.8E-05	1.1E-04
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01				4.5E-07	2.7E-05		5.6E-08	1.2E-06		4.5E-06	2.6E-06	8.9E-06
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	1.4E-06	4.8E-05	5.9E-06	3.0E-05	9.1E-04	1.6E-06	3.1E-06	1.4E-04	3.1E-05	9.6E-04	1.5E-04	5.6E-04
5	4A	Phase 4A - Excavation	4.3E+00	1.7E-06	6.0E-05	7.4E-06	3.7E-05	1.1E-03	2.0E-06	3.8E-06	1.7E-04	3.8E-05	1.2E-03	1.8E-04	7.0E-04
6	4B	Phase 4B - Excavation	4.3E+00	1.7E-06	6.0E-05	7.4E-06	3.8E-05	1.1E-03	2.0E-06	3.8E-06	1.7E-04	3.8E-05	1.2E-03	1.8E-04	7.0E-04
7	4C	Phase 4C - Excavation	4.3E+00	1.7E-06	6.0E-05	7.4E-06	3.7E-05	1.1E-03	2.0E-06	3.8E-06	1.7E-04	3.8E-05	1.2E-03	1.8E-04	7.0E-04
8	4D	Phase 4D - Excavation	4.3E+00	1.7E-06	6.0E-05	7.4E-06	3.7E-05	1.1E-03	2.0E-06	3.8E-06	1.7E-04	3.8E-05	1.2E-03	1.8E-04	7.0E-04
9	5	Phase 5 - Final Grade													
10	6_1	Phase 6 - Surface Water Control (1 of 2)													
11	6_2	Phase 6 - Surface Water Control (2 of 2)													
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	1.4E-06	5.1E-05	6.2E-06	3.2E-05	9.5E-04	1.7E-06	3.2E-06	1.5E-04	3.2E-05	1.0E-03	1.5E-04	5.9E-04
13	8	Phase 8 - Site Restoration													
14	HAUL_N	Haul Road - North	7.3E+00	2.9E-06	1.0E-04	1.3E-05	6.4E-05	1.9E-03	3.4E-06	6.5E-06	3.0E-04	6.5E-05	2.0E-03	3.1E-04	1.2E-03
15	HAUL_S	Haul Road - South	1.3E+01	5.1E-06	1.8E-04	2.2E-05	1.1E-04	3.4E-03	5.9E-06	1.1E-05	5.2E-04	1.1E-04	3.6E-03	5.4E-04	2.1E-03
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	1.8E-08	6.4E-07	7.9E-08	4.0E-07	1.2E-05	2.1E-08	4.1E-08	1.8E-06	4.0E-07	1.3E-05	1.9E-06	7.4E-06
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	2.5E-08	8.9E-07	1.1E-07	5.6E-07	1.7E-05	2.9E-08	5.7E-08	2.6E-06	5.7E-07	1.8E-05	2.7E-06	1.0E-05
18	TRUCK_N	Truck Loading Area - North													
19	TRUCK_S	Truck Loading Area - South													
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM													
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM													
22	4AD	Phase 4A - Excavation - DPM													
23	4BD	Phase 4B - Excavation - DPM													
24	4CD	Phase 4C - Excavation - DPM													
25	4DD	Phase 4D - Excavation - DPM													
26	7D	Phase 7 - South Coast Oil Corporation - DPM													
27	HAUL_ND	Haul Road - North													
28	HAUL_SD	Haul Road - South													
29	STKP_LND	Stockpile Loading Area - North													
30	STKP_LSD	Stockpile Loading Area - South													
31	OFF_N	Offsite Truck Emissions - North													
32	OFF_S	Offsite Truck - South													

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Methylene Chloride	Trichlorofluoromethane	Selenium	Organic Lead	2-Butanone	Acenaphthene	Di-n-butyl phthalate	Phenanthrene
			CAS No.	75-09-2	75-69-4	7782-49-2	78-00-2	78-93-3	83-32-9	84-74-2	85-01-8
		Non-Pit F	UCL Concentration (mg/kg)	8.3E-01	2.8E-01	2.9E+00	2.6E-01	5.4E-01	2.1E-01	3.3E-01	7.8E+01
		Pit F	UCL Concentration (mg/kg)			2.5E-02	4.4E-02	4.3E+00			5.5E+04
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.5E-07	5.1E-08	5.2E-07	4.7E-08	9.9E-08	3.8E-08	6.0E-08	1.4E-05
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	5.6E-07	1.9E-07	1.9E-06	1.7E-07	3.6E-07	1.4E-07	2.2E-07	5.2E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01			9.3E-09	1.6E-08	1.6E-06			2.0E-02
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.9E-06	9.6E-07	9.9E-06	8.9E-07	1.9E-06	7.2E-07	1.1E-06	2.7E-04
5	4A	Phase 4A - Excavation	4.3E+00	3.6E-06	1.2E-06	1.2E-05	1.1E-06	2.3E-06	8.9E-07	1.4E-06	3.4E-04
6	4B	Phase 4B - Excavation	4.3E+00	3.6E-06	1.2E-06	1.2E-05	1.1E-06	2.3E-06	8.9E-07	1.4E-06	3.4E-04
7	4C	Phase 4C - Excavation	4.3E+00	3.6E-06	1.2E-06	1.2E-05	1.1E-06	2.3E-06	8.9E-07	1.4E-06	3.4E-04
8	4D	Phase 4D - Excavation	4.3E+00	3.6E-06	1.2E-06	1.2E-05	1.1E-06	2.3E-06	8.9E-07	1.4E-06	3.3E-04
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	3.0E-06	1.0E-06	1.0E-05	9.4E-07	2.0E-06	7.5E-07	1.2E-06	2.8E-04
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	7.3E+00	6.1E-06	2.0E-06	2.1E-05	1.9E-06	3.9E-06	1.5E-06	2.4E-06	5.7E-04
15	HAUL_S	Haul Road - South	1.3E+01	1.1E-05	3.6E-06	3.7E-05	3.3E-06	6.9E-06	2.7E-06	4.2E-06	1.0E-03
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.8E-08	1.3E-08	1.3E-07	1.2E-08	2.5E-08	9.5E-09	1.5E-08	3.6E-06
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	5.3E-08	1.8E-08	1.8E-07	1.6E-08	3.4E-08	1.3E-08	2.1E-08	5.0E-06
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Fluorene	Naphthalene	2-Methylnaphthalene	o-Xylene	1,2-Dichlorobenzene	1,2,4-Trimethylbenzene	1-METHYLETHYLBENZENE
			CAS No.	86-73-7	91-20-3	91-57-6	95-47-6	95-50-1	95-63-6	98-82-8
		Non-Pit F	UCL Concentration (mg/kg)	1.3E+00	9.8E+00	4.2E+00	1.1E+00	1.6E-01	2.7E+00	7.9E+00
		Pit F	UCL Concentration (mg/kg)		1.7E+02				2.5E+00	
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	2.3E-07	1.8E-06	7.8E-07	1.9E-07	2.9E-08	5.0E-07	1.5E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	8.4E-07	6.6E-06	2.8E-06	7.1E-07	1.0E-07	1.8E-06	5.3E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01		6.3E-05				9.3E-07	
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	4.3E-06	3.4E-05	1.5E-05	3.7E-06	5.4E-07	9.5E-06	2.7E-05
5	4A	Phase 4A - Excavation	4.3E+00	5.4E-06	4.2E-05	1.8E-05	4.6E-06	6.7E-07	1.2E-05	3.4E-05
6	4B	Phase 4B - Excavation	4.3E+00	5.4E-06	4.2E-05	1.8E-05	4.6E-06	6.7E-07	1.2E-05	3.4E-05
7	4C	Phase 4C - Excavation	4.3E+00	5.4E-06	4.2E-05	1.8E-05	4.6E-06	6.7E-07	1.2E-05	3.4E-05
8	4D	Phase 4D - Excavation	4.3E+00	5.4E-06	4.2E-05	1.8E-05	4.6E-06	6.7E-07	1.2E-05	3.4E-05
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	4.6E-06	3.6E-05	1.5E-05	3.9E-06	5.7E-07	1.0E-05	2.9E-05
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	7.3E+00	9.2E-06	7.2E-05	3.1E-05	7.8E-06	1.1E-06	2.0E-05	5.8E-05
15	HAUL_S	Haul Road - South	1.3E+01	1.6E-05	1.3E-04	5.5E-05	1.4E-05	2.0E-06	3.5E-05	1.0E-04
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	5.7E-08	4.5E-07	1.9E-07	4.9E-08	7.1E-09	1.3E-07	3.6E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	8.0E-08	6.3E-07	2.7E-07	6.8E-08	1.0E-08	1.8E-07	5.1E-07
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	p-Isopropyltoluene	2-PROPYL-1-HEPTANOL	Heptachlor epoxide	Endosulfan sulfate	2,4-Dimethylphenol	P-XYLENE	4-Chlorotoluene
			CAS No.	99-87-6	10042-59-8	1024-57-3	1031-07-8	105-67-9	106-42-3	106-43-4
		Non-Pit F	UCL Concentration (mg/kg)	6.6E-01	1.9E+01	3.2E-02	4.3E-03	3.9E+01	3.9E-01	1.2E+00
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.2E-07	3.5E-06	5.9E-09	7.9E-10	7.1E-06	7.1E-08	2.2E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.5E-07	1.3E-05	2.2E-08	2.9E-09	2.6E-05	2.6E-07	8.1E-07
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01							
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.3E-06	6.6E-05	1.1E-07	1.5E-08	1.3E-04	1.3E-06	4.1E-06
5	4A	Phase 4A - Excavation	4.3E+00	2.9E-06	8.2E-05	1.4E-07	1.8E-08	1.7E-04	1.7E-06	5.2E-06
6	4B	Phase 4B - Excavation	4.3E+00	2.9E-06	8.2E-05	1.4E-07	1.9E-08	1.7E-04	1.7E-06	5.2E-06
7	4C	Phase 4C - Excavation	4.3E+00	2.9E-06	8.2E-05	1.4E-07	1.8E-08	1.7E-04	1.7E-06	5.2E-06
8	4D	Phase 4D - Excavation	4.3E+00	2.8E-06	8.2E-05	1.4E-07	1.8E-08	1.7E-04	1.7E-06	5.1E-06
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.4E-06	6.9E-05	1.2E-07	1.6E-08	1.4E-04	1.4E-06	4.4E-06
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	7.3E+00	4.9E-06	1.4E-04	2.3E-07	3.2E-08	2.9E-04	2.9E-06	8.8E-06
15	HAUL_S	Haul Road - South	1.3E+01	8.5E-06	2.4E-04	4.1E-07	5.5E-08	5.0E-04	5.0E-06	1.5E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.0E-08	8.7E-07	1.5E-09	2.0E-10	1.8E-06	1.8E-08	5.5E-08
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.2E-08	1.2E-06	2.1E-09	2.8E-10	2.5E-06	2.5E-08	7.7E-08
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	1,4-Dichlorobenzene	1,2-Dibromoethane	1,2-Dichloroethane	M-XYLENE	Chlorobenzene	Aroclor 1254	1,2,4-Trichlorobenzene
			CAS No.	106-46-7	106-93-4	107-06-2	108-38-3	108-90-7	11097-69-1	120-82-1
		Non-Pit F	UCL Concentration (mg/kg)	2.3E-01	6.1E-03	1.0E+01	2.7E+01	6.6E+00	6.1E+00	1.0E-03
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	4.2E-08	1.1E-09	1.8E-06	4.9E-06	1.2E-06	1.1E-06	1.8E-10
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	1.5E-07	4.1E-09	6.7E-06	1.8E-05	4.4E-06	4.1E-06	6.7E-10
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01							
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	7.9E-07	2.1E-08	3.5E-05	9.3E-05	2.3E-05	2.1E-05	3.5E-09
5	4A	Phase 4A - Excavation	4.3E+00	9.9E-07	2.6E-08	4.3E-05	1.2E-04	2.8E-05	2.6E-05	4.3E-09
6	4B	Phase 4B - Excavation	4.3E+00	9.9E-07	2.6E-08	4.3E-05	1.2E-04	2.8E-05	2.6E-05	4.3E-09
7	4C	Phase 4C - Excavation	4.3E+00	9.9E-07	2.6E-08	4.3E-05	1.2E-04	2.8E-05	2.6E-05	4.3E-09
8	4D	Phase 4D - Excavation	4.3E+00	9.9E-07	2.6E-08	4.3E-05	1.2E-04	2.8E-05	2.6E-05	4.3E-09
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	8.4E-07	2.2E-08	3.6E-05	9.8E-05	2.4E-05	2.2E-05	3.6E-09
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	7.3E+00	1.7E-06	4.5E-08	7.3E-05	2.0E-04	4.8E-05	4.5E-05	7.3E-09
15	HAUL_S	Haul Road - South	1.3E+01	3.0E-06	7.8E-08	1.3E-04	3.5E-04	8.5E-05	7.8E-05	1.3E-08
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	1.1E-08	2.8E-10	4.6E-07	1.2E-06	3.0E-07	2.8E-07	4.6E-11
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	1.5E-08	3.9E-10	6.4E-07	1.7E-06	4.2E-07	3.9E-07	6.4E-11
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	HEXANEDIOIC ACID, DIOCTYL ESTER	Aroclor 1248	Aroclor 1016	Tetrachloroethene	Chlordane	Dibenzofuran	6-METHYL-1,1-HEPTANOL
			CAS No.	123-79-5	12672-29-6	12674-11-2	127-18-4	12789-03-6	132-64-9	1653-40-3
		Non-Pit F	UCL Concentration (mg/kg)	7.0E+02	5.2E+00	1.6E+00	7.8E-03	1.4E+00	5.4E-01	3.0E+01
		Pit F	UCL Concentration (mg/kg)							
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**							
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.3E-04	9.5E-07	2.9E-07	1.4E-09	2.6E-07	9.9E-08	5.5E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.7E-04	3.5E-06	1.1E-06	5.2E-09	9.4E-07	3.6E-07	2.0E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01							
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.4E-03	1.8E-05	5.5E-06	2.7E-08	4.8E-06	1.9E-06	1.0E-04
5	4A	Phase 4A - Excavation	4.3E+00	3.0E-03	2.2E-05	6.9E-06	3.4E-08	6.0E-06	2.3E-06	1.3E-04
6	4B	Phase 4B - Excavation	4.3E+00	3.0E-03	2.2E-05	6.9E-06	3.4E-08	6.0E-06	2.3E-06	1.3E-04
7	4C	Phase 4C - Excavation	4.3E+00	3.0E-03	2.2E-05	6.9E-06	3.4E-08	6.0E-06	2.3E-06	1.3E-04
8	4D	Phase 4D - Excavation	4.3E+00	3.0E-03	2.2E-05	6.9E-06	3.3E-08	6.0E-06	2.3E-06	1.3E-04
9	5	Phase 5 - Final Grade								
10	6_1	Phase 6 - Surface Water Control (1 of 2)								
11	6_2	Phase 6 - Surface Water Control (2 of 2)								
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.5E-03	1.9E-05	5.8E-06	2.8E-08	5.1E-06	2.0E-06	1.1E-04
13	8	Phase 8 - Site Restoration								
14	HAUL_N	Haul Road - North	7.3E+00	5.1E-03	3.8E-05	1.2E-05	5.7E-08	1.0E-05	4.0E-06	2.2E-04
15	HAUL_S	Haul Road - South	1.3E+01	9.0E-03	6.7E-05	2.1E-05	1.0E-07	1.8E-05	6.9E-06	3.9E-04
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.2E-05	2.4E-07	7.3E-08	3.6E-10	6.4E-08	2.5E-08	1.4E-06
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.5E-05	3.3E-07	1.0E-07	5.0E-10	9.0E-08	3.5E-08	1.9E-06
18	TRUCK_N	Truck Loading Area - North								
19	TRUCK_S	Truck Loading Area - South								
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM								
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM								
22	4AD	Phase 4A - Excavation - DPM								
23	4BD	Phase 4B - Excavation - DPM								
24	4CD	Phase 4C - Excavation - DPM								
25	4DD	Phase 4D - Excavation - DPM								
26	7D	Phase 7 - South Coast Oil Corporation - DPM								
27	HAUL_ND	Haul Road - North								
28	HAUL_SD	Haul Road - South								
29	STKP_LND	Stockpile Loading Area - North								
30	STKP_LSD	Stockpile Loading Area - South								
31	OFF_N	Offsite Truck Emissions - North								
32	OFF_S	Offsite Truck - South								

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Chromium (VI)	(1,1-DIMETHYLBUTYL)BENZENE	(1,1-DIMETHYLPROPYL)BENZENE	Benzo(k)fluoranthene	Acenaphthylene
			CAS No.	18540-29-9	1985-57-5	2049-95-8	207-08-9	208-96-8
		Non-Pit F	UCL Concentration (mg/kg)	7.3E-01	3.3E+00	8.3E+00	1.4E-01	2.0E-03
		Pit F	UCL Concentration (mg/kg)	2.5E-01				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.3E-07	6.0E-07	1.5E-06	2.6E-08	3.7E-10
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.9E-07	2.2E-06	5.6E-06	9.4E-08	1.3E-09
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01	9.3E-08				
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.5E-06	1.1E-05	2.9E-05	4.8E-07	6.9E-09
5	4A	Phase 4A - Excavation	4.3E+00	3.1E-06	1.4E-05	3.6E-05	6.0E-07	8.6E-09
6	4B	Phase 4B - Excavation	4.3E+00	3.2E-06	1.4E-05	3.6E-05	6.0E-07	8.6E-09
7	4C	Phase 4C - Excavation	4.3E+00	3.1E-06	1.4E-05	3.6E-05	6.0E-07	8.6E-09
8	4D	Phase 4D - Excavation	4.3E+00	3.1E-06	1.4E-05	3.6E-05	6.0E-07	8.6E-09
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.7E-06	1.2E-05	3.0E-05	5.1E-07	7.3E-09
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	7.3E+00	5.4E-06	2.4E-05	6.1E-05	1.0E-06	1.5E-08
15	HAUL_S	Haul Road - South	1.3E+01	9.4E-06	4.2E-05	1.1E-04	1.8E-06	2.6E-08
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.3E-08	1.5E-07	3.8E-07	6.4E-09	9.2E-11
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.7E-08	2.1E-07	5.3E-07	9.0E-09	1.3E-10
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	ISOOCTANOL	(1-METHYLBUTYL)BENZENE
			CAS No.	22531-20-0	22975-62-8	26952-21-6	2719-52-0
		Non-Pit F	UCL Concentration (mg/kg)	4.1E+00	3.4E+00	1.1E+01	6.1E+00
		Pit F	UCL Concentration (mg/kg)				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	7.5E-07	6.2E-07	2.0E-06	1.1E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	2.8E-06	2.3E-06	7.4E-06	4.1E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01				
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	1.4E-05	1.2E-05	3.8E-05	2.1E-05
5	4A	Phase 4A - Excavation	4.3E+00	1.8E-05	1.5E-05	4.7E-05	2.6E-05
6	4B	Phase 4B - Excavation	4.3E+00	1.8E-05	1.5E-05	4.7E-05	2.6E-05
7	4C	Phase 4C - Excavation	4.3E+00	1.8E-05	1.5E-05	4.7E-05	2.6E-05
8	4D	Phase 4D - Excavation	4.3E+00	1.8E-05	1.5E-05	4.7E-05	2.6E-05
9	5	Phase 5 - Final Grade					
10	6_1	Phase 6 - Surface Water Control (1 of 2)					
11	6_2	Phase 6 - Surface Water Control (2 of 2)					
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	1.5E-05	1.2E-05	4.0E-05	2.2E-05
13	8	Phase 8 - Site Restoration					
14	HAUL_N	Haul Road - North	7.3E+00	3.0E-05	2.5E-05	8.1E-05	4.5E-05
15	HAUL_S	Haul Road - South	1.3E+01	5.3E-05	4.4E-05	1.4E-04	7.8E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	1.9E-07	1.6E-07	5.0E-07	2.8E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	2.6E-07	2.2E-07	7.0E-07	3.9E-07
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM					
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM					
22	4AD	Phase 4A - Excavation - DPM					
23	4BD	Phase 4B - Excavation - DPM					
24	4CD	Phase 4C - Excavation - DPM					
25	4DD	Phase 4D - Excavation - DPM					
26	7D	Phase 7 - South Coast Oil Corporation - DPM					
27	HAUL_ND	Haul Road - North					
28	HAUL_SD	Haul Road - South					
29	STKP_LND	Stockpile Loading Area - North					
30	STKP_LSD	Stockpile Loading Area - South					
31	OFF_N	Offsite Truck Emissions - North					
32	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	2-CYCLOHEXYLDECANE	alpha-BHC	Endosulfan II	1-METHYLETHYLCYCLOPENTANE	1-ETHYL-4-(1-METHYLETHYL)BENZENE
			CAS No.	2883-05-8	319-84-6	33213-65-9	3875-51-2	4218-48-8
		Non-Pit F	UCL Concentration (mg/kg)	8.1E+00	1.7E-02	1.1E-02	4.2E+00	2.7E+00
		Pit F	UCL Concentration (mg/kg)					
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.5E-06	3.1E-09	2.0E-09	7.7E-07	4.9E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	5.4E-06	1.1E-08	7.4E-09	2.8E-06	1.8E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01					
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.8E-05	5.9E-08	3.8E-08	1.5E-05	9.3E-06
5	4A	Phase 4A - Excavation	4.3E+00	3.5E-05	7.3E-08	4.7E-08	1.8E-05	1.2E-05
6	4B	Phase 4B - Excavation	4.3E+00	3.5E-05	7.3E-08	4.7E-08	1.8E-05	1.2E-05
7	4C	Phase 4C - Excavation	4.3E+00	3.5E-05	7.3E-08	4.7E-08	1.8E-05	1.2E-05
8	4D	Phase 4D - Excavation	4.3E+00	3.5E-05	7.3E-08	4.7E-08	1.8E-05	1.2E-05
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.9E-05	6.2E-08	4.0E-08	1.5E-05	9.8E-06
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	7.3E+00	5.9E-05	1.2E-07	8.1E-08	3.1E-05	2.0E-05
15	HAUL_S	Haul Road - South	1.3E+01	1.0E-04	2.2E-07	1.4E-07	5.4E-05	3.5E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.7E-07	7.8E-10	5.0E-10	1.9E-07	1.2E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	5.2E-07	1.1E-09	7.0E-10	2.7E-07	1.7E-07
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	OCTAHYDROINDENE	GAMMA-CHLORDANE	1,2,3,5-TETRAMETHYLBENZENE	Aroclor 1242	Endrin ketone	(1-PROPENYL)CYCLOHEXANE
			CAS No.	496-10-6	5103-74-2	527-53-7	53469-21-9	53494-70-5	5364-83-0
		Non-Pit F	UCL Concentration (mg/kg)	3.1E+01	1.7E-02	7.5E+00	4.2E+00	3.0E-03	4.0E+01
		Pit F	UCL Concentration (mg/kg)						
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**						
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	5.7E-06	3.1E-09	1.4E-06	7.7E-07	5.5E-10	7.3E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	2.1E-05	1.1E-08	5.0E-06	2.8E-06	2.0E-09	2.7E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01						
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	1.1E-04	5.9E-08	2.6E-05	1.5E-05	1.0E-08	1.4E-04
5	4A	Phase 4A - Excavation	4.3E+00	1.3E-04	7.3E-08	3.2E-05	1.8E-05	1.3E-08	1.7E-04
6	4B	Phase 4B - Excavation	4.3E+00	1.3E-04	7.3E-08	3.2E-05	1.8E-05	1.3E-08	1.7E-04
7	4C	Phase 4C - Excavation	4.3E+00	1.3E-04	7.3E-08	3.2E-05	1.8E-05	1.3E-08	1.7E-04
8	4D	Phase 4D - Excavation	4.3E+00	1.3E-04	7.3E-08	3.2E-05	1.8E-05	1.3E-08	1.7E-04
9	5	Phase 5 - Final Grade							
10	6_1	Phase 6 - Surface Water Control (1 of 2)							
11	6_2	Phase 6 - Surface Water Control (2 of 2)							
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	1.1E-04	6.2E-08	2.7E-05	1.5E-05	1.1E-08	1.5E-04
13	8	Phase 8 - Site Restoration							
14	HAUL_N	Haul Road - North	7.3E+00	2.3E-04	1.2E-07	5.5E-05	3.1E-05	2.2E-08	2.9E-04
15	HAUL_S	Haul Road - South	1.3E+01	4.0E-04	2.2E-07	9.6E-05	5.4E-05	3.9E-08	5.1E-04
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	1.4E-06	7.8E-10	3.4E-07	1.9E-07	1.4E-10	1.8E-06
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	2.0E-06	1.1E-09	4.8E-07	2.7E-07	1.9E-10	2.6E-06
18	TRUCK_N	Truck Loading Area - North							
19	TRUCK_S	Truck Loading Area - South							
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM							
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM							
22	4AD	Phase 4A - Excavation - DPM							
23	4BD	Phase 4B - Excavation - DPM							
24	4CD	Phase 4C - Excavation - DPM							
25	4DD	Phase 4D - Excavation - DPM							
26	7D	Phase 7 - South Coast Oil Corporation - DPM							
27	HAUL_ND	Haul Road - North							
28	HAUL_SD	Haul Road - South							
29	STKP_LND	Stockpile Loading Area - North							
30	STKP_LSD	Stockpile Loading Area - South							
31	OFF_N	Offsite Truck Emissions - North							
32	OFF_S	Offsite Truck - South							

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	Dibenz(a,h)anthracene	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE
			CAS No.	53-70-3	54340-86-2	5557-93-7
		Non-Pit F	UCL Concentration (mg/kg)	1.7E+00	1.8E+00	7.7E+00
		Pit F	UCL Concentration (mg/kg)			
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**			
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	3.1E-07	3.3E-07	1.4E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	1.1E-06	1.2E-06	5.2E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01			
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	5.9E-06	6.2E-06	2.7E-05
5	4A	Phase 4A - Excavation	4.3E+00	7.3E-06	7.7E-06	3.3E-05
6	4B	Phase 4B - Excavation	4.3E+00	7.3E-06	7.8E-06	3.3E-05
7	4C	Phase 4C - Excavation	4.3E+00	7.3E-06	7.7E-06	3.3E-05
8	4D	Phase 4D - Excavation	4.3E+00	7.3E-06	7.7E-06	3.3E-05
9	5	Phase 5 - Final Grade				
10	6_1	Phase 6 - Surface Water Control (1 of 2)				
11	6_2	Phase 6 - Surface Water Control (2 of 2)				
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	6.2E-06	6.5E-06	2.8E-05
13	8	Phase 8 - Site Restoration				
14	HAUL_N	Haul Road - North	7.3E+00	1.2E-05	1.3E-05	5.6E-05
15	HAUL_S	Haul Road - South	1.3E+01	2.2E-05	2.3E-05	9.9E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	7.8E-08	8.2E-08	3.5E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	1.1E-07	1.2E-07	4.9E-07
18	TRUCK_N	Truck Loading Area - North				
19	TRUCK_S	Truck Loading Area - South				
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM				
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM				
22	4AD	Phase 4A - Excavation - DPM				
23	4BD	Phase 4B - Excavation - DPM				
24	4CD	Phase 4C - Excavation - DPM				
25	4DD	Phase 4D - Excavation - DPM				
26	7D	Phase 7 - South Coast Oil Corporation - DPM				
27	HAUL_ND	Haul Road - North				
28	HAUL_SD	Haul Road - South				
29	STKP_LND	Stockpile Loading Area - North				
30	STKP_LSD	Stockpile Loading Area - South				
31	OFF_N	Offsite Truck Emissions - North				
32	OFF_S	Offsite Truck - South				

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	gamma-BHC (Lindane)	2-Hexanone	Dieldrin	Benzoic acid	Chloroform	1,1,1-Trichloroethane	Methoxychlor	Bromoform
			CAS No.	58-89-9	591-78-6	60-57-1	65-85-0	67-66-3	71-55-6	72-43-5	75-25-2
		Non-Pit F	UCL Concentration (mg/kg)	6.5E-02	3.4E-03	3.1E-02	1.6E-01	2.5E+01	1.3E+01	5.3E-03	4.7E+00
		Pit F	UCL Concentration (mg/kg)								
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**								
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.2E-08	6.2E-10	5.7E-09	2.9E-08	4.6E-06	2.4E-06	9.7E-10	8.6E-07
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.4E-08	2.3E-09	2.1E-08	1.1E-07	1.7E-05	8.7E-06	3.6E-09	3.2E-06
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01								
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.2E-07	1.2E-08	1.1E-07	5.5E-07	8.6E-05	4.5E-05	1.8E-08	1.6E-05
5	4A	Phase 4A - Excavation	4.3E+00	2.8E-07	1.5E-08	1.3E-07	6.9E-07	1.1E-04	5.6E-05	2.3E-08	2.0E-05
6	4B	Phase 4B - Excavation	4.3E+00	2.8E-07	1.5E-08	1.3E-07	6.9E-07	1.1E-04	5.6E-05	2.3E-08	2.0E-05
7	4C	Phase 4C - Excavation	4.3E+00	2.8E-07	1.5E-08	1.3E-07	6.9E-07	1.1E-04	5.6E-05	2.3E-08	2.0E-05
8	4D	Phase 4D - Excavation	4.3E+00	2.8E-07	1.5E-08	1.3E-07	6.9E-07	1.1E-04	5.6E-05	2.3E-08	2.0E-05
9	5	Phase 5 - Final Grade									
10	6_1	Phase 6 - Surface Water Control (1 of 2)									
11	6_2	Phase 6 - Surface Water Control (2 of 2)									
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.4E-07	1.2E-08	1.1E-07	5.8E-07	9.1E-05	4.7E-05	1.9E-08	1.7E-05
13	8	Phase 8 - Site Restoration									
14	HAUL_N	Haul Road - North	7.3E+00	4.8E-07	2.5E-08	2.3E-07	1.2E-06	1.8E-04	9.5E-05	3.9E-08	3.4E-05
15	HAUL_S	Haul Road - South	1.3E+01	8.4E-07	4.4E-08	4.0E-07	2.1E-06	3.2E-04	1.7E-04	6.8E-08	6.0E-05
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.0E-09	1.6E-10	1.4E-09	7.3E-09	1.1E-06	5.9E-07	2.4E-10	2.2E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.2E-09	2.2E-10	2.0E-09	1.0E-08	1.6E-06	8.3E-07	3.4E-10	3.0E-07
18	TRUCK_N	Truck Loading Area - North									
19	TRUCK_S	Truck Loading Area - South									
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM									
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM									
22	4AD	Phase 4A - Excavation - DPM									
23	4BD	Phase 4B - Excavation - DPM									
24	4CD	Phase 4C - Excavation - DPM									
25	4DD	Phase 4D - Excavation - DPM									
26	7D	Phase 7 - South Coast Oil Corporation - DPM									
27	HAUL_ND	Haul Road - North									
28	HAUL_SD	Haul Road - South									
29	STKP_LND	Stockpile Loading Area - North									
30	STKP_LSD	Stockpile Loading Area - South									
31	OFF_N	Offsite Truck Emissions - North									
32	OFF_S	Offsite Truck - South									

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	1,1-Dichloroethane	1,1-Dichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane	Heptachlor	1,1,2,2-Tetrachloroethane
			CAS No.	75-34-3	75-35-4	76-13-1	76-44-8	79-34-5
		Non-Pit F	UCL Concentration (mg/kg)	7.0E-01	4.3E-03	8.6E+00	2.9E-02	9.4E-02
		Pit F	UCL Concentration (mg/kg)					
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.3E-07	7.9E-10	1.6E-06	5.3E-09	1.7E-08
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.7E-07	2.9E-09	5.8E-06	2.0E-08	6.3E-08
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01					
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.4E-06	1.5E-08	3.0E-05	1.0E-07	3.2E-07
5	4A	Phase 4A - Excavation	4.3E+00	3.0E-06	1.8E-08	3.7E-05	1.2E-07	4.0E-07
6	4B	Phase 4B - Excavation	4.3E+00	3.0E-06	1.9E-08	3.7E-05	1.3E-07	4.1E-07
7	4C	Phase 4C - Excavation	4.3E+00	3.0E-06	1.8E-08	3.7E-05	1.2E-07	4.0E-07
8	4D	Phase 4D - Excavation	4.3E+00	3.0E-06	1.8E-08	3.7E-05	1.2E-07	4.0E-07
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.5E-06	1.6E-08	3.1E-05	1.1E-07	3.4E-07
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	7.3E+00	5.1E-06	3.2E-08	6.3E-05	2.1E-07	6.9E-07
15	HAUL_S	Haul Road - South	1.3E+01	9.0E-06	5.5E-08	1.1E-04	3.7E-07	1.2E-06
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.2E-08	2.0E-10	3.9E-07	1.3E-09	4.3E-09
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.5E-08	2.8E-10	5.5E-07	1.9E-09	6.0E-09
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

			Chemical Name	BENZYL BUTYL PHTHALATE	N-Nitrosodiphenylamine	1,2,3-Trichlorobenzene	DECAHYDRONAPHTHALENE
			CAS No.	85-68-7	86-30-6	87-61-6	91-17-8
		Non-Pit F	UCL Concentration (mg/kg)	6.3E-01	6.8E-01	1.3E-03	1.5E+01
		Pit F	UCL Concentration (mg/kg)				
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**				
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.2E-07	1.2E-07	2.4E-10	2.7E-06
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	4.2E-07	4.6E-07	8.7E-10	1.0E-05
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01				
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.2E-06	2.3E-06	4.5E-09	5.2E-05
5	4A	Phase 4A - Excavation	4.3E+00	2.7E-06	2.9E-06	5.6E-09	6.5E-05
6	4B	Phase 4B - Excavation	4.3E+00	2.7E-06	2.9E-06	5.6E-09	6.5E-05
7	4C	Phase 4C - Excavation	4.3E+00	2.7E-06	2.9E-06	5.6E-09	6.5E-05
8	4D	Phase 4D - Excavation	4.3E+00	2.7E-06	2.9E-06	5.6E-09	6.4E-05
9	5	Phase 5 - Final Grade					
10	6_1	Phase 6 - Surface Water Control (1 of 2)					
11	6_2	Phase 6 - Surface Water Control (2 of 2)					
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	2.3E-06	2.5E-06	4.7E-09	5.5E-05
13	8	Phase 8 - Site Restoration					
14	HAUL_N	Haul Road - North	7.3E+00	4.6E-06	5.0E-06	9.5E-09	1.1E-04
15	HAUL_S	Haul Road - South	1.3E+01	8.1E-06	8.7E-06	1.7E-08	1.9E-04
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	2.9E-08	3.1E-08	5.9E-11	6.9E-07
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	4.0E-08	4.4E-08	8.3E-11	9.6E-07
18	TRUCK_N	Truck Loading Area - North					
19	TRUCK_S	Truck Loading Area - South					
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM					
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM					
22	4AD	Phase 4A - Excavation - DPM					
23	4BD	Phase 4B - Excavation - DPM					
24	4CD	Phase 4C - Excavation - DPM					
25	4DD	Phase 4D - Excavation - DPM					
26	7D	Phase 7 - South Coast Oil Corporation - DPM					
27	HAUL_ND	Haul Road - North					
28	HAUL_SD	Haul Road - South					
29	STKP_LND	Stockpile Loading Area - North					
30	STKP_LSD	Stockpile Loading Area - South					
31	OFF_N	Offsite Truck Emissions - North					
32	OFF_S	Offsite Truck - South					

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON HRA - Health Risk Assessment

Emissions Speciation - Alternative 6 (Hourly)

		Chemical Name	3,3'-DICHLOROBENZIDINE	Benzidine	1,1,4-6-TETRAMETHYLINDANE	1,2-Dibromo-3-Chloropropane	tert-Butylbenzene	Crystalline Silica
		CAS No.	91-94-1	92-87-5	941-60-6	96-12-8	98-06-6	7631-86-9
	Non-Pit F	UCL Concentration (mg/kg)	8.2E-02		2.0E+00	5.9E-03	2.7E-03	2.8E+05
	Pit F	UCL Concentration (mg/kg)						
Order	**SourceID**	**Source Description**	**Area Wide Fugitive Dust (lbs/hour)**					
1	1	Phase 1 - Mobilization and Maintain Haul Roads	1.8E-01	1.5E-08		3.7E-07	1.1E-09	4.9E-10	
2	2_1	Phase 2 - Pit F - Clear and Grub (Preparation)	6.7E-01	5.5E-08		1.3E-06	4.0E-09	1.8E-09	
3	2_2	Phase 2 - Pit F - Sprung Structure Exhaust	3.7E-01					
4	3	Phase 3 - Lagoons 2-5 Removal	3.5E+00	2.8E-07		6.9E-06	2.0E-08	9.3E-09	
5	4A	Phase 4A - Excavation	4.3E+00	3.5E-07		8.6E-06	2.5E-08	1.2E-08	6.9E-02
6	4B	Phase 4B - Excavation	4.3E+00	3.5E-07		8.6E-06	2.5E-08	1.2E-08	1.0E-01
7	4C	Phase 4C - Excavation	4.3E+00	3.5E-07		8.6E-06	2.5E-08	1.2E-08	6.9E-02
8	4D	Phase 4D - Excavation	4.3E+00	3.5E-07		8.6E-06	2.5E-08	1.2E-08	6.9E-02
9	5	Phase 5 - Final Grade						
10	6_1	Phase 6 - Surface Water Control (1 of 2)						
11	6_2	Phase 6 - Surface Water Control (2 of 2)						
12	7	Phase 7 - South Coast Oil Corporation	3.6E+00	3.0E-07		7.3E-06	2.1E-08	9.8E-09	
13	8	Phase 8 - Site Restoration						
14	HAUL_N	Haul Road - North	7.3E+00	6.0E-07		1.5E-05	4.3E-08	2.0E-08	
15	HAUL_S	Haul Road - South	1.3E+01	1.1E-06		2.6E-05	7.6E-08	3.5E-08	
16	STKP_L_N	Stockpile Loading Area - North	4.6E-02	3.8E-09		9.2E-08	2.7E-10	1.2E-10	
17	STKP_L_S	Stockpile Loading Area - South	6.4E-02	5.3E-09		1.3E-07	3.8E-10	1.7E-10	
18	TRUCK_N	Truck Loading Area - North						
19	TRUCK_S	Truck Loading Area - South						
20	2_1D	Phase 2 - Pit F - Clear and Grub (Preparation) - DPM						
21	3D	Phase 3 - Lagoons 2-5 Removal - DPM						
22	4AD	Phase 4A - Excavation - DPM						
23	4BD	Phase 4B - Excavation - DPM						
24	4CD	Phase 4C - Excavation - DPM						
25	4DD	Phase 4D - Excavation - DPM						
26	7D	Phase 7 - South Coast Oil Corporation - DPM						
27	HAUL_ND	Haul Road - North						
28	HAUL_SD	Haul Road - South						
29	STKP_LND	Stockpile Loading Area - North						
30	STKP_LSD	Stockpile Loading Area - South						
31	OFF_N	Offsite Truck Emissions - North						
32	OFF_S	Offsite Truck - South						

[a] UCL concentrations provided in Interim #2

[a] Phase 2_2 (Pit F) will be performed under negative pressure environment. Assumes 95% control.

ASCON Health Risk Assessment

List of Chemicals to Analyze Outside of HARP

						Cancer Risk - Inhalation			Chronic Risk - Inhalation		Chronic Risk Toxicological Endpoints[e]							
Chemical Name[a]	**CAS No.**	**Surrogate CAS No.[b]**	**Surrogate Name**	**Lookup CAS No.**	**RSL Table?**	**IUR (ug/m3)$^{-1}$**	**IUR Key[c]**	**CPF (mg/kg-day)[d]**	**RfC (mg/m^3)**	**RfC Key[c]**	***RESP***	***CNS/PNS***	***CV/BL***	***IMMUN***	***KIDN***	***GI/LV***	***REPRO***	***EYES***
n-Propylbenzene	103-65-1			103-65-1	Yes				1.0E+00	X	X							
Aroclor 1260	11096-82-5			11096-82-5	Yes	5.7E-04	S	2.0E+00										
Aroclor 1254	11097-69-1			11097-69-1	Yes	5.7E-04	S	2.0E+00										
Aroclor 1248	12672-29-6			12672-29-6	Yes	5.7E-04	S	2.0E+00										
Aroclor 1016	12674-11-2			12674-11-2	Yes	2.0E-05	S	7.0E-02										
(1,1-DIMETHYLPROPYL)BENZENE	2049-95-8	103-65-1	Propylbenzene	103-65-1	Yes				1.0E+00	X	X							
2-CYCLOHEXYLDECANE	2883-05-8	111-84-2	n-Nonane	111-84-2	Yes				2.0E-01	P	X							
1-METHYLETHYLCYCLOPENTANE	3875-51-2	111-84-2	n-Nonane	111-84-2	Yes				2.0E-01	P	X							
OCTAHYDROINDENE	496-10-6	77-73-6	Dicyclopentadiene	77-73-6	Yes				7.0E-03	P	X							
GAMMA-CHLORDANE	5103-74-2	12789-03-6	Chlordane	12789-03-6	Yes	1.0E-04	I	3.5E-01	7.0E-04	I						X		
Aroclor 1242	53469-21-9			53469-21-9	Yes	5.7E-04	S	2.0E+00										
(1-PROPENYL)CYCLOHEXANE	5364-83-0	111-84-2	n-Nonane	111-84-2	Yes				2.0E-01	P	X							
2-Hexanone	591-78-6			591-78-6	Yes				3.0E-02	I		X						

[a] Chemicals which are not included in the HARP software or OEHHA health database, but have toxicity values from other sources.
[b] Chemicals which do not have toxicity values, but have an appropriate surrogate assigned.
[c] Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = Special Considerations EPA RSL Users Guide, Section 5.
[d] Conversion from IUR to Cancer Potency Factor
[e] Toxicological end points identified through EPA IRIS Database or PPRTV Appendix

ASCON Health Risk

Supplemental HRA

	Rec	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	X/Q (SRC 1)	6.13E-01	5.75E-01	5.76E-01	5.77E-01	5.31E-01	4.81E-01	4.77E-01	4.88E-01	4.25E-01	3.33E-01	3.05E-01	3.16E-01	3.45E-01	3.88E-01	4.08E-01	4.05E-01	3.90E-01	3.98E-01
2	X/Q (SRC 2)	6.95E-01	7.56E-01	8.52E-01	9.63E-01	1.03E+00	1.03E+00	9.66E-01	9.18E-01	8.97E-01	8.33E-01	7.65E-01	7.50E-01	6.63E-01	5.42E-01	5.14E-01	5.63E-01	6.22E-01	6.44E-01
3	X/Q (SRC 3)	5.50E-01	6.13E-01	6.81E-01	7.33E-01	7.36E-01	6.94E-01	6.41E-01	6.23E-01	6.28E-01	5.91E-01	5.25E-01	5.10E-01	5.29E-01	4.69E-01	3.64E-01	3.34E-01	3.46E-01	3.80E-01
4	X/Q (SRC 4)	6.30E-01	6.66E-01	6.68E-01	6.35E-01	5.86E-01	5.70E-01	5.76E-01	5.51E-01	4.94E-01	4.63E-01	4.78E-01	4.60E-01	3.66E-01	3.05E-01	3.07E-01	3.24E-01	3.60E-01	3.94E-01
5	X/Q (SRC 5)	6.66E-01	6.85E-01	7.02E-01	7.10E-01	7.14E-01	7.16E-01	7.01E-01	6.56E-01	5.92E-01	5.48E-01	5.18E-01	5.00E-01	5.03E-01	5.12E-01	5.01E-01	4.91E-01	5.02E-01	5.27E-01
6	X/Q (SRC 6)	5.11E-01	5.21E-01	5.31E-01	5.35E-01	5.24E-01	5.08E-01	4.90E-01	4.73E-01	4.53E-01	4.23E-01	3.89E-01	3.63E-01	3.42E-01	3.24E-01	3.09E-01	3.05E-01	3.16E-01	3.33E-01
7	X/Q (SRC 7)	5.61E-01	6.03E-01	6.67E-01	7.42E-01	8.12E-01	8.36E-01	8.08E-01	7.47E-01	7.15E-01	7.20E-01	6.75E-01	6.13E-01	6.04E-01	5.90E-01	4.86E-01	4.01E-01	3.98E-01	4.32E-01
8	X/Q (SRC 8)	1.96E-01	2.07E-01	2.19E-01	2.30E-01	2.39E-01	2.51E-01	2.61E-01	2.64E-01	2.70E-01	2.86E-01	2.89E-01	2.94E-01	3.00E-01	3.04E-01	3.02E-01	3.07E-01	3.08E-01	3.05E-01
9	X/Q (SRC 9)	6.04E-01	6.17E-01	6.25E-01	6.22E-01	6.11E-01	5.99E-01	5.81E-01	5.49E-01	5.15E-01	4.85E-01	4.50E-01	4.24E-01	4.08E-01	3.96E-01	3.84E-01	3.86E-01	3.99E-01	4.16E-01
10	X/Q (SRC 10)	3.61E-01	3.32E-01	3.03E-01	2.92E-01	3.03E-01	3.14E-01	2.81E-01	2.22E-01	1.89E-01	1.91E-01	1.97E-01	2.07E-01	2.28E-01	2.49E-01	2.57E-01	2.58E-01	2.51E-01	2.45E-01
11	X/Q (SRC 11)	6.76E-01	7.12E-01	7.56E-01	8.11E-01	9.04E-01	1.03E+00	1.11E+00	1.12E+00	1.05E+00	1.02E+00	9.86E-01	9.12E-01	8.52E-01	8.08E-01	6.80E-01	5.77E-01	5.88E-01	6.58E-01
12	X/Q (SRC 12)	7.09E-01	6.79E-01	6.76E-01	6.35E-01	5.68E-01	5.51E-01	5.67E-01	4.90E-01	3.79E-01	3.62E-01	3.82E-01	4.27E-01	4.72E-01	4.76E-01	4.56E-01	4.63E-01	5.07E-01	5.48E-01
13	X/Q (SRC 13)	6.05E-01	6.18E-01	6.25E-01	6.21E-01	6.09E-01	5.97E-01	5.79E-01	5.46E-01	5.11E-01	4.81E-01	4.47E-01	4.23E-01	4.08E-01	3.97E-01	3.85E-01	3.87E-01	4.01E-01	4.18E-01
14	X/Q (SRC 14)	6.07E-01	6.20E-01	6.27E-01	6.23E-01	6.11E-01	5.99E-01	5.81E-01	5.48E-01	5.12E-01	4.83E-01	4.49E-01	4.24E-01	4.10E-01	3.98E-01	3.86E-01	3.88E-01	4.03E-01	4.21E-01
15	X/Q (SRC 15)	4.17E-01	3.99E-01	3.87E-01	3.78E-01	3.67E-01	3.55E-01	3.40E-01	3.25E-01	3.15E-01	3.05E-01	2.86E-01	2.64E-01	2.39E-01	2.16E-01	2.06E-01	2.13E-01	2.26E-01	2.39E-01
16	X/Q (SRC 16)	6.04E-01	6.17E-01	6.25E-01	6.22E-01	6.11E-01	5.99E-01	5.81E-01	5.49E-01	5.15E-01	4.85E-01	4.50E-01	4.24E-01	4.08E-01	3.96E-01	3.84E-01	3.86E-01	3.99E-01	4.16E-01
17	X/Q (SRC 17)	8.38E-01	8.74E-01	8.80E-01	8.54E-01	8.18E-01	7.97E-01	7.59E-01	6.91E-01	6.60E-01	6.46E-01	5.68E-01	4.91E-01	4.70E-01	4.98E-01	5.38E-01	5.65E-01	5.68E-01	5.73E-01
18	X/Q (SRC 18)	6.04E-01	6.17E-01	6.25E-01	6.22E-01	6.11E-01	5.99E-01	5.81E-01	5.49E-01	5.15E-01	4.85E-01	4.50E-01	4.24E-01	4.08E-01	3.96E-01	3.84E-01	3.86E-01	3.99E-01	4.16E-01
19	X/Q (SRC 19)	4.59E-01	4.69E-01	4.79E-01	4.87E-01	4.93E-01	5.01E-01	5.00E-01	4.84E-01	4.62E-01	4.43E-01	4.21E-01	3.98E-01	3.81E-01	3.74E-01	3.44E-01	2.95E-01	2.82E-01	2.94E-01
20	X/Q (SRC 20)	5.71E-01	6.12E-01	6.66E-01	7.23E-01	7.75E-01	7.99E-01	7.92E-01	7.55E-01	7.24E-01	7.15E-01	6.76E-01	6.30E-01	6.09E-01	5.78E-01	5.00E-01	4.29E-01	4.15E-01	4.45E-01
21	X/Q (SRC 21)	1.09E+00	1.19E+00	1.31E+00	1.47E+00	1.64E+00	1.85E+00	2.11E+00	2.44E+00	2.86E+00	3.43E+00	4.14E+00	5.29E+00	7.36E+00	1.21E+01	2.85E+01	1.20E+02	5.23E+01	2.15E+01
22	X/Q (SRC 22)	6.15E-01	5.89E-01	5.79E-01	5.69E-01	5.34E-01	4.99E-01	4.86E-01	4.74E-01	4.25E-01	3.58E-01	3.22E-01	3.27E-01	3.55E-01	3.91E-01	4.08E-01	4.05E-01	3.98E-01	4.08E-01
23	X/Q (SRC 23)	6.02E-01	6.30E-01	6.40E-01	6.29E-01	6.00E-01	5.81E-01	5.70E-01	5.47E-01	5.07E-01	4.79E-01	4.71E-01	4.46E-01	3.82E-01	3.29E-01	3.19E-01	3.35E-01	3.66E-01	3.93E-01
24	X/Q (SRC 24)	6.61E-01	6.80E-01	6.98E-01	7.07E-01	7.05E-01	7.08E-01	6.93E-01	6.49E-01	5.98E-01	5.62E-01	5.27E-01	5.12E-01	5.13E-01	5.16E-01	5.07E-01	5.01E-01	5.09E-01	5.28E-01
25	X/Q (SRC 25)	5.07E-01	5.16E-01	5.24E-01	5.28E-01	5.20E-01	5.08E-01	4.93E-01	4.75E-01	4.54E-01	4.28E-01	3.95E-01	3.69E-01	3.49E-01	3.32E-01	3.19E-01	3.15E-01	3.22E-01	3.36E-01
26	X/Q (SRC 26)	7.15E-01	6.89E-01	6.73E-01	6.29E-01	5.77E-01	5.58E-01	5.54E-01	4.86E-01	4.03E-01	3.80E-01	3.96E-01	4.37E-01	4.72E-01	4.76E-01	4.59E-01	4.75E-01	5.05E-01	5.28E-01
27	X/Q (SRC 27)	5.94E-01	6.08E-01	6.17E-01	6.17E-01	6.06E-01	5.98E-01	5.81E-01	5.47E-01	5.16E-01	4.93E-01	4.58E-01	4.32E-01	4.16E-01	4.04E-01	3.94E-01	3.95E-01	4.05E-01	4.19E-01
28	X/Q (SRC 28)	5.94E-01	6.08E-01	6.17E-01	6.17E-01	6.06E-01	5.98E-01	5.81E-01	5.47E-01	5.16E-01	4.93E-01	4.58E-01	4.32E-01	4.16E-01	4.04E-01	3.94E-01	3.95E-01	4.05E-01	4.19E-01
29	X/Q (SRC 29)	4.56E-01	4.66E-01	4.76E-01	4.84E-01	4.89E-01	4.95E-01	4.95E-01	4.80E-01	4.62E-01	4.48E-01	4.25E-01	4.04E-01	3.87E-01	3.73E-01	3.47E-01	3.11E-01	2.94E-01	3.01E-01
30	X/Q (SRC 30)	5.98E-01	6.11E-01	6.19E-01	6.18E-01	6.06E-01	5.98E-01	5.81E-01	5.46E-01	5.13E-01	4.90E-01	4.57E-01	4.33E-01	4.18E-01	4.06E-01	3.96E-01	3.98E-01	4.08E-01	4.23E-01
31	X/Q (SRC 31)	2.17E-01	2.08E-01	2.04E-01	2.04E-01	2.03E-01	2.03E-01	2.01E-01	1.99E-01	2.00E-01	2.05E-01	2.10E-01	2.15E-01	2.18E-01	2.19E-01	2.17E-01	2.14E-01	2.10E-01	2.05E-01
32	X/Q (SRC 32)	1.44E+00	1.45E+00	1.38E+00	1.26E+00	1.17E+00	1.19E+00	1.23E+00	1.16E+00	9.70E-01	7.99E-01	7.43E-01	7.60E-01	8.01E-01	8.71E-01	9.51E-01	1.01E+00	1.02E+00	9.99E-01
33	X/Q (SRC 33)	7.68E-01	6.71E-01	6.42E-01	6.72E-01	6.29E-01	5.47E-01	5.20E-01	5.77E-01	4.94E-01	3.46E-01	3.44E-01	3.57E-01	4.03E-01	4.58E-01	4.66E-01	4.53E-01	4.37E-01	4.91E-01
34	X/Q (SRC 34)	3.88E-01	3.47E-01	3.13E-01	2.93E-01	3.04E-01	3.48E-01	3.09E-01	2.17E-01	1.83E-01	1.97E-01	2.01E-01	2.04E-01	2.35E-01	2.62E-01	2.65E-01	2.69E-01	2.60E-01	2.45E-01
35	X/Q (SRC 35)	5.46E-01	5.99E-01	7.02E-01	8.18E-01	8.97E-01	8.84E-01	7.86E-01	6.97E-01	7.09E-01	7.27E-01	6.29E-01	5.69E-01	6.24E-01	5.78E-01	3.90E-01	3.74E-01	3.91E-01	4.44E-01

ASCON Health Risk

Supplemental HRA

	Rec	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	X/Q (SRC 1)	4.35E-01	4.73E-01	4.75E-01	4.45E-01	4.02E-01	3.53E-01	3.10E-01	7.61E-01	7.04E-01	6.62E-01	6.64E-01	6.47E-01	5.80E-01	5.45E-01	5.54E-01	5.12E-01	3.97E-01	3.58E-01
2	X/Q (SRC 2)	6.32E-01	6.56E-01	7.09E-01	7.25E-01	6.85E-01	5.98E-01	5.09E-01	7.77E-01	8.26E-01	8.92E-01	1.00E+00	1.14E+00	1.24E+00	1.23E+00	1.14E+00	1.11E+00	1.07E+00	9.72E-01
3	X/Q (SRC 3)	4.22E-01	4.41E-01	4.33E-01	4.21E-01	4.47E-01	4.92E-01	5.15E-01	5.78E-01	6.28E-01	6.99E-01	7.84E-01	8.44E-01	8.49E-01	7.93E-01	7.29E-01	7.31E-01	7.21E-01	6.50E-01
4	X/Q (SRC 4)	3.99E-01	3.91E-01	3.83E-01	4.05E-01	4.52E-01	4.73E-01	4.60E-01	6.53E-01	7.26E-01	7.71E-01	7.69E-01	7.21E-01	6.70E-01	6.60E-01	6.50E-01	6.04E-01	5.45E-01	5.49E-01
5	X/Q (SRC 5)	5.49E-01	5.55E-01	5.35E-01	5.03E-01	4.72E-01	4.36E-01	3.97E-01	7.51E-01	7.77E-01	7.92E-01	8.10E-01	8.34E-01	8.46E-01	8.35E-01	7.94E-01	7.43E-01	6.78E-01	6.39E-01
6	X/Q (SRC 6)	3.44E-01	3.52E-01	3.55E-01	3.63E-01	3.87E-01	4.11E-01	4.18E-01	5.69E-01	5.81E-01	5.92E-01	6.00E-01	6.01E-01	5.91E-01	5.72E-01	5.49E-01	5.32E-01	4.97E-01	4.60E-01
7	X/Q (SRC 7)	4.83E-01	5.12E-01	5.05E-01	4.97E-01	5.27E-01	5.74E-01	5.87E-01	6.14E-01	6.44E-01	6.82E-01	7.55E-01	8.57E-01	9.42E-01	9.79E-01	9.28E-01	8.74E-01	8.59E-01	8.33E-01
8	X/Q (SRC 8)	3.00E-01	2.97E-01	2.90E-01	2.80E-01	2.73E-01	2.61E-01	2.49E-01	2.09E-01	2.20E-01	2.30E-01	2.44E-01	2.60E-01	2.75E-01	2.84E-01	2.91E-01	3.07E-01	3.24E-01	3.33E-01
9	X/Q (SRC 9)	4.30E-01	4.40E-01	4.41E-01	4.36E-01	4.28E-01	4.13E-01	3.93E-01	6.69E-01	6.93E-01	7.06E-01	7.12E-01	7.16E-01	7.08E-01	6.84E-01	6.49E-01	6.23E-01	5.84E-01	5.42E-01
10	X/Q (SRC 10)	2.49E-01	2.72E-01	2.97E-01	3.11E-01	3.11E-01	2.98E-01	2.77E-01	4.11E-01	3.87E-01	3.45E-01	3.23E-01	3.32E-01	3.48E-01	3.20E-01	2.54E-01	2.13E-01	2.13E-01	2.20E-01
11	X/Q (SRC 11)	7.11E-01	7.11E-01	7.16E-01	7.69E-01	8.00E-01	7.64E-01	6.73E-01	7.42E-01	7.81E-01	8.17E-01	8.72E-01	9.59E-01	1.08E+00	1.22E+00	1.32E+00	1.36E+00	1.29E+00	1.24E+00
12	X/Q (SRC 12)	5.48E-01	5.10E-01	4.51E-01	3.93E-01	3.43E-01	3.10E-01	2.90E-01	8.79E-01	8.18E-01	7.75E-01	7.55E-01	7.07E-01	6.52E-01	6.50E-01	5.84E-01	4.61E-01	4.29E-01	4.56E-01
13	X/Q (SRC 13)	4.32E-01	4.41E-01	4.41E-01	4.34E-01	4.26E-01	4.10E-01	3.90E-01	6.73E-01	6.95E-01	7.07E-01	7.12E-01	7.14E-01	7.05E-01	6.82E-01	6.46E-01	6.18E-01	5.79E-01	5.38E-01
14	X/Q (SRC 14)	4.34E-01	4.43E-01	4.42E-01	4.36E-01	4.27E-01	4.11E-01	3.90E-01	6.75E-01	6.97E-01	7.09E-01	7.15E-01	7.17E-01	7.08E-01	6.85E-01	6.48E-01	6.20E-01	5.81E-01	5.40E-01
15	X/Q (SRC 15)	2.50E-01	2.58E-01	2.59E-01	2.60E-01	2.66E-01	2.76E-01	2.90E-01	4.81E-01	4.63E-01	4.42E-01	4.26E-01	4.17E-01	4.03E-01	3.85E-01	3.64E-01	3.57E-01	3.43E-01	3.23E-01
16	X/Q (SRC 16)	4.30E-01	4.40E-01	4.41E-01	4.36E-01	4.28E-01	4.13E-01	3.93E-01	6.69E-01	6.93E-01	7.06E-01	7.12E-01	7.16E-01	7.08E-01	6.84E-01	6.49E-01	6.23E-01	5.84E-01	5.42E-01
17	X/Q (SRC 17)	5.92E-01	6.15E-01	6.11E-01	5.76E-01	5.25E-01	4.69E-01	4.20E-01	9.11E-01	9.81E-01	1.03E+00	1.03E+00	1.00E+00	9.69E-01	9.10E-01	8.31E-01	8.03E-01	7.81E-01	6.95E-01
18	X/Q (SRC 18)	4.30E-01	4.40E-01	4.41E-01	4.36E-01	4.28E-01	4.13E-01	3.93E-01	6.69E-01	6.93E-01	7.06E-01	7.12E-01	7.16E-01	7.08E-01	6.84E-01	6.49E-01	6.23E-01	5.84E-01	5.42E-01
19	X/Q (SRC 19)	3.15E-01	3.41E-01	3.50E-01	3.51E-01	3.60E-01	3.72E-01	3.81E-01	5.02E-01	5.14E-01	5.22E-01	5.33E-01	5.48E-01	5.60E-01	5.65E-01	5.57E-01	5.49E-01	5.27E-01	4.99E-01
20	X/Q (SRC 20)	4.87E-01	5.11E-01	5.09E-01	5.08E-01	5.30E-01	5.58E-01	5.62E-01	6.18E-01	6.54E-01	6.92E-01	7.55E-01	8.36E-01	9.01E-01	9.34E-01	9.09E-01	8.84E-01	8.63E-01	8.27E-01
21	X/Q (SRC 21)	1.16E+01	7.62E+00	5.39E+00	4.01E+00	3.19E+00	2.57E+00	2.11E+00	1.16E+00	1.27E+00	1.38E+00	1.53E+00	1.71E+00	1.93E+00	2.18E+00	2.47E+00	2.96E+00	3.53E+00	4.31E+00
22	X/Q (SRC 22)	4.31E-01	4.54E-01	4.53E-01	4.28E-01	3.93E-01	3.53E-01	3.16E-01	7.41E-01	7.12E-01	6.76E-01	6.59E-01	6.41E-01	5.95E-01	5.62E-01	5.37E-01	5.06E-01	4.25E-01	3.79E-01
23	X/Q (SRC 23)	3.97E-01	3.93E-01	3.94E-01	4.10E-01	4.40E-01	4.52E-01	4.39E-01	6.42E-01	6.97E-01	7.32E-01	7.39E-01	7.19E-01	6.86E-01	6.66E-01	6.38E-01	6.10E-01	5.65E-01	5.52E-01
24	X/Q (SRC 24)	5.41E-01	5.42E-01	5.25E-01	4.97E-01	4.69E-01	4.36E-01	4.01E-01	7.47E-01	7.73E-01	7.84E-01	8.03E-01	8.30E-01	8.38E-01	8.19E-01	7.78E-01	7.43E-01	6.94E-01	6.51E-01
25	X/Q (SRC 25)	3.46E-01	3.55E-01	3.59E-01	3.66E-01	3.84E-01	3.99E-01	4.01E-01	5.65E-01	5.78E-01	5.86E-01	5.92E-01	5.95E-01	5.87E-01	5.72E-01	5.46E-01	5.33E-01	5.02E-01	4.67E-01
26	X/Q (SRC 26)	5.23E-01	4.92E-01	4.44E-01	3.95E-01	3.53E-01	3.23E-01	3.03E-01	8.63E-01	8.26E-01	7.80E-01	7.46E-01	7.08E-01	6.64E-01	6.35E-01	5.71E-01	4.88E-01	4.52E-01	4.73E-01
27	X/Q (SRC 27)	4.30E-01	4.37E-01	4.37E-01	4.31E-01	4.23E-01	4.08E-01	3.89E-01	6.61E-01	6.84E-01	6.95E-01	7.03E-01	7.11E-01	7.04E-01	6.79E-01	6.43E-01	6.22E-01	5.91E-01	5.51E-01
28	X/Q (SRC 28)	4.30E-01	4.37E-01	4.37E-01	4.31E-01	4.23E-01	4.08E-01	3.89E-01	6.61E-01	6.84E-01	6.95E-01	7.03E-01	7.11E-01	7.04E-01	6.79E-01	6.43E-01	6.22E-01	5.91E-01	5.51E-01
29	X/Q (SRC 29)	3.21E-01	3.43E-01	3.52E-01	3.54E-01	3.61E-01	3.70E-01	3.74E-01	4.99E-01	5.11E-01	5.18E-01	5.29E-01	5.45E-01	5.56E-01	5.57E-01	5.48E-01	5.44E-01	5.29E-01	5.04E-01
30	X/Q (SRC 30)	4.33E-01	4.40E-01	4.38E-01	4.31E-01	4.22E-01	4.07E-01	3.87E-01	6.67E-01	6.88E-01	6.98E-01	7.05E-01	7.12E-01	7.05E-01	6.79E-01	6.42E-01	6.20E-01	5.89E-01	5.50E-01
31	X/Q (SRC 31)	2.00E-01	1.95E-01	1.89E-01	1.82E-01	1.75E-01	1.68E-01	1.60E-01	2.49E-01	2.37E-01	2.27E-01	2.27E-01	2.30E-01	2.29E-01	2.25E-01	2.19E-01	2.27E-01	2.32E-01	2.37E-01
32	X/Q (SRC 32)	9.73E-01	9.97E-01	1.09E+00	1.20E+00	1.27E+00	1.26E+00	1.20E+00	1.61E+00	1.62E+00	1.56E+00	1.46E+00	1.34E+00	1.32E+00	1.35E+00	1.29E+00	1.12E+00	9.14E-01	8.33E-01
33	X/Q (SRC 33)	5.61E-01	5.71E-01	5.30E-01	4.65E-01	3.94E-01	3.36E-01	2.97E-01	9.66E-01	8.80E-01	7.61E-01	7.48E-01	7.81E-01	6.88E-01	6.07E-01	6.44E-01	6.15E-01	4.20E-01	4.06E-01
34	X/Q (SRC 34)	2.55E-01	2.92E-01	3.27E-01	3.38E-01	3.30E-01	3.11E-01	2.85E-01	4.37E-01	4.16E-01	3.61E-01	3.33E-01	3.29E-01	3.78E-01	3.57E-01	2.53E-01	2.05E-01	2.20E-01	2.24E-01
35	X/Q (SRC 35)	5.04E-01	5.14E-01	4.91E-01	4.85E-01	5.61E-01	6.23E-01	6.08E-01	6.25E-01	6.34E-01	6.75E-01	7.88E-01	9.43E-01	1.05E+00	1.03E+00	8.88E-01	8.25E-01	8.69E-01	8.09E-01

ASCON Health Risk

Supplemental HRA

	Rec	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
1	X/Q (SRC 1)	3.71E-01	4.11E-01	4.59E-01	4.75E-01	4.63E-01	4.56E-01	4.89E-01	5.34E-01	5.49E-01	5.18E-01	4.61E-01	4.01E-01	3.50E-01	3.13E-01	9.13E-01	8.80E-01	8.03E-01	7.65E-01	7.83E-01
2	X/Q (SRC 2)	9.27E-01	8.34E-01	6.78E-01	6.42E-01	7.11E-01	7.83E-01	7.90E-01	7.90E-01	8.47E-01	8.84E-01	8.32E-01	7.23E-01	6.11E-01	5.26E-01	8.66E-01	9.19E-01	9.74E-01	1.05E+00	1.22E+00
3	X/Q (SRC 3)	5.98E-01	6.14E-01	5.65E-01	4.38E-01	3.94E-01	4.12E-01	4.59E-01	5.06E-01	5.16E-01	5.00E-01	5.05E-01	5.53E-01	5.94E-01	5.82E-01	6.31E-01	6.60E-01	7.10E-01	7.93E-01	9.08E-01
4	X/Q (SRC 4)	5.46E-01	4.40E-01	3.56E-01	3.57E-01	3.82E-01	4.32E-01	4.63E-01	4.60E-01	4.47E-01	4.56E-01	5.01E-01	5.37E-01	5.31E-01	4.89E-01	6.64E-01	7.44E-01	8.33E-01	8.96E-01	8.93E-01
5	X/Q (SRC 5)	6.22E-01	6.23E-01	6.25E-01	6.11E-01	5.99E-01	6.17E-01	6.48E-01	6.58E-01	6.39E-01	5.99E-01	5.56E-01	5.14E-01	4.69E-01	4.25E-01	8.46E-01	8.74E-01	8.99E-01	9.22E-01	9.82E-01
6	X/Q (SRC 6)	4.27E-01	3.99E-01	3.77E-01	3.63E-01	3.56E-01	3.68E-01	3.86E-01	3.98E-01	4.07E-01	4.13E-01	4.30E-01	4.58E-01	4.75E-01	4.60E-01	6.31E-01	6.45E-01	6.57E-01	6.68E-01	6.86E-01
7	X/Q (SRC 7)	7.60E-01	7.17E-01	7.10E-01	6.01E-01	4.85E-01	4.76E-01	5.28E-01	5.90E-01	6.10E-01	5.96E-01	6.09E-01	6.63E-01	6.92E-01	6.58E-01	6.75E-01	7.00E-01	7.33E-01	7.81E-01	8.89E-01
8	X/Q (SRC 8)	3.40E-01	3.46E-01	3.52E-01	3.54E-01	3.53E-01	3.53E-01	3.55E-01	3.47E-01	3.41E-01	3.30E-01	3.16E-01	3.03E-01	2.89E-01	2.74E-01	2.18E-01	2.28E-01	2.42E-01	2.58E-01	2.82E-01
9	X/Q (SRC 9)	5.10E-01	4.90E-01	4.75E-01	4.62E-01	4.60E-01	4.76E-01	4.97E-01	5.10E-01	5.14E-01	5.08E-01	4.95E-01	4.77E-01	4.53E-01	4.24E-01	7.35E-01	7.68E-01	7.94E-01	8.10E-01	8.41E-01
10	X/Q (SRC 10)	2.33E-01	2.59E-01	2.80E-01	2.87E-01	2.83E-01	2.74E-01	2.73E-01	2.90E-01	3.20E-01	3.41E-01	3.43E-01	3.30E-01	3.07E-01	2.79E-01	4.60E-01	4.43E-01	4.01E-01	3.66E-01	3.68E-01
11	X/Q (SRC 11)	1.17E+00	1.08E+00	1.02E+00	8.77E-01	7.23E-01	7.32E-01	8.37E-01	8.91E-01	8.86E-01	9.28E-01	9.86E-01	9.53E-01	8.31E-01	6.95E-01	8.21E-01	8.59E-01	9.02E-01	9.56E-01	1.07E+00
12	X/Q (SRC 12)	5.20E-01	5.65E-01	5.61E-01	5.42E-01	5.72E-01	6.27E-01	6.44E-01	6.01E-01	5.27E-01	4.54E-01	3.95E-01	3.56E-01	3.33E-01	3.20E-01	1.07E+00	1.02E+00	9.42E-01	8.93E-01	8.93E-01
13	X/Q (SRC 13)	5.09E-01	4.90E-01	4.76E-01	4.63E-01	4.61E-01	4.78E-01	4.99E-01	5.11E-01	5.14E-01	5.06E-01	4.92E-01	4.73E-01	4.49E-01	4.21E-01	7.42E-01	7.72E-01	7.96E-01	8.11E-01	8.40E-01
14	X/Q (SRC 14)	5.11E-01	4.92E-01	4.78E-01	4.65E-01	4.64E-01	4.81E-01	5.02E-01	5.13E-01	5.16E-01	5.07E-01	4.93E-01	4.74E-01	4.50E-01	4.21E-01	7.45E-01	7.75E-01	7.99E-01	8.14E-01	8.44E-01
15	X/Q (SRC 15)	2.98E-01	2.71E-01	2.44E-01	2.33E-01	2.40E-01	2.55E-01	2.70E-01	2.81E-01	2.88E-01	2.89E-01	2.92E-01	3.02E-01	3.16E-01	3.30E-01	5.44E-01	5.35E-01	5.13E-01	4.89E-01	4.79E-01
16	X/Q (SRC 16)	5.10E-01	4.90E-01	4.75E-01	4.62E-01	4.60E-01	4.76E-01	4.97E-01	5.10E-01	5.14E-01	5.08E-01	4.95E-01	4.77E-01	4.53E-01	4.24E-01	7.35E-01	7.68E-01	7.94E-01	8.10E-01	8.41E-01
17	X/Q (SRC 17)	6.00E-01	5.71E-01	6.10E-01	6.57E-01	6.76E-01	6.80E-01	7.02E-01	7.23E-01	7.26E-01	6.87E-01	6.19E-01	5.49E-01	4.90E-01	4.46E-01	9.77E-01	1.06E+00	1.15E+00	1.20E+00	1.24E+00
18	X/Q (SRC 18)	5.10E-01	4.90E-01	4.75E-01	4.62E-01	4.60E-01	4.76E-01	4.97E-01	5.10E-01	5.14E-01	5.08E-01	4.95E-01	4.77E-01	4.53E-01	4.24E-01	7.35E-01	7.68E-01	7.94E-01	8.10E-01	8.41E-01
19	X/Q (SRC 19)	4.74E-01	4.49E-01	4.36E-01	4.10E-01	3.48E-01	3.27E-01	3.43E-01	3.73E-01	4.00E-01	4.07E-01	4.11E-01	4.24E-01	4.34E-01	4.32E-01	5.49E-01	5.61E-01	5.72E-01	5.83E-01	6.10E-01
20	X/Q (SRC 20)	7.74E-01	7.31E-01	6.99E-01	6.12E-01	5.18E-01	4.97E-01	5.43E-01	5.92E-01	6.10E-01	6.06E-01	6.19E-01	6.51E-01	6.63E-01	6.32E-01	6.75E-01	6.99E-01	7.36E-01	7.88E-01	8.93E-01
21	X/Q (SRC 21)	5.39E+00	7.25E+00	1.08E+01	2.04E+01	5.04E+01	1.44E+02	4.05E+01	1.89E+01	1.14E+01	7.53E+00	5.36E+00	4.06E+00	3.21E+00	2.59E+00	1.18E+00	1.28E+00	1.39E+00	1.52E+00	1.73E+00
22	X/Q (SRC 22)	3.85E-01	4.21E-01	4.59E-01	4.75E-01	4.68E-01	4.69E-01	4.91E-01	5.17E-01	5.23E-01	4.97E-01	4.50E-01	4.01E-01	3.58E-01	3.25E-01	8.70E-01	8.60E-01	8.13E-01	7.74E-01	7.74E-01
23	X/Q (SRC 23)	5.28E-01	4.54E-01	3.84E-01	3.71E-01	3.96E-01	4.38E-01	4.62E-01	4.59E-01	4.55E-01	4.67E-01	4.94E-01	5.14E-01	5.07E-01	4.71E-01	6.73E-01	7.36E-01	8.00E-01	8.47E-01	8.61E-01
24	X/Q (SRC 24)	6.34E-01	6.32E-01	6.30E-01	6.18E-01	6.10E-01	6.21E-01	6.43E-01	6.44E-01	6.27E-01	5.92E-01	5.53E-01	5.14E-01	4.73E-01	4.33E-01	8.42E-01	8.66E-01	8.89E-01	9.12E-01	9.77E-01
25	X/Q (SRC 25)	4.34E-01	4.07E-01	3.86E-01	3.73E-01	3.67E-01	3.75E-01	3.90E-01	4.01E-01	4.11E-01	4.17E-01	4.30E-01	4.48E-01	4.56E-01	4.41E-01	6.24E-01	6.39E-01	6.51E-01	6.60E-01	6.80E-01
26	X/Q (SRC 26)	5.28E-01	5.64E-01	5.63E-01	5.55E-01	5.77E-01	6.09E-01	6.15E-01	5.78E-01	5.18E-01	4.58E-01	4.08E-01	3.72E-01	3.48E-01	3.33E-01	1.03E+00	1.00E+00	9.47E-01	8.91E-01	8.84E-01
27	X/Q (SRC 27)	5.21E-01	4.99E-01	4.84E-01	4.73E-01	4.70E-01	4.81E-01	4.99E-01	5.07E-01	5.10E-01	5.03E-01	4.89E-01	4.71E-01	4.49E-01	4.23E-01	7.29E-01	7.56E-01	7.79E-01	7.96E-01	8.33E-01
28	X/Q (SRC 28)	5.21E-01	4.99E-01	4.84E-01	4.73E-01	4.70E-01	4.81E-01	4.99E-01	5.07E-01	5.10E-01	5.03E-01	4.89E-01	4.71E-01	4.49E-01	4.23E-01	7.29E-01	7.56E-01	7.79E-01	7.96E-01	8.33E-01
29	X/Q (SRC 29)	4.79E-01	4.56E-01	4.38E-01	4.11E-01	3.65E-01	3.40E-01	3.53E-01	3.79E-01	4.02E-01	4.09E-01	4.13E-01	4.21E-01	4.27E-01	4.23E-01	5.46E-01	5.57E-01	5.67E-01	5.78E-01	6.08E-01
30	X/Q (SRC 30)	5.21E-01	5.01E-01	4.87E-01	4.75E-01	4.74E-01	4.86E-01	5.03E-01	5.11E-01	5.12E-01	5.03E-01	4.88E-01	4.69E-01	4.47E-01	4.20E-01	7.38E-01	7.64E-01	7.85E-01	8.00E-01	8.36E-01
31	X/Q (SRC 31)	2.40E-01	2.40E-01	2.39E-01	2.36E-01	2.32E-01	2.27E-01	2.21E-01	2.14E-01	2.08E-01	2.00E-01	1.92E-01	1.83E-01	1.75E-01	1.66E-01	2.84E-01	2.65E-01	2.57E-01	2.56E-01	2.63E-01
32	X/Q (SRC 32)	8.51E-01	9.07E-01	9.92E-01	1.08E+00	1.13E+00	1.13E+00	1.10E+00	1.10E+00	1.17E+00	1.30E+00	1.39E+00	1.40E+00	1.34E+00	1.24E+00	1.84E+00	1.79E+00	1.76E+00	1.67E+00	1.58E+00
33	X/Q (SRC 33)	4.26E-01	4.94E-01	5.49E-01	5.49E-01	5.17E-01	5.42E-01	6.38E-01	6.70E-01	6.26E-01	5.44E-01	4.54E-01	3.83E-01	3.38E-01	3.13E-01	1.10E+00	1.13E+00	1.00E+00	8.77E-01	9.27E-01
34	X/Q (SRC 34)	2.32E-01	2.70E-01	2.94E-01	2.97E-01	2.98E-01	2.80E-01	2.76E-01	3.08E-01	3.53E-01	3.75E-01	3.67E-01	3.46E-01	3.17E-01	2.80E-01	4.76E-01	4.82E-01	4.27E-01	3.84E-01	3.67E-01
35	X/Q (SRC 35)	6.96E-01	7.12E-01	7.19E-01	4.86E-01	4.45E-01	4.69E-01	5.51E-01	6.08E-01	6.07E-01	5.73E-01	6.29E-01	7.24E-01	7.25E-01	6.51E-01	7.03E-01	7.28E-01	7.37E-01	7.73E-01	9.18E-01

ASCON Health Risk

Supplemental HRA

	Rec	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
1	X/Q (SRC 1)	7.20E-01	6.40E-01	6.56E-01	6.24E-01	4.81E-01	4.25E-01	4.44E-01	4.99E-01	5.48E-01	5.57E-01	5.39E-01	5.58E-01	6.12E-01	6.40E-01	6.11E-01	5.42E-01	4.65E-01	3.99E-01	3.56E-01
2	X/Q (SRC 2)	1.39E+00	1.52E+00	1.52E+00	1.44E+00	1.37E+00	1.27E+00	1.18E+00	1.07E+00	8.74E-01	8.27E-01	9.25E-01	1.00E+00	9.97E-01	1.04E+00	1.10E+00	1.05E+00	9.08E-01	7.49E-01	6.43E-01
3	X/Q (SRC 3)	9.87E-01	9.94E-01	9.24E-01	8.70E-01	8.63E-01	8.17E-01	7.28E-01	7.22E-01	6.88E-01	5.39E-01	4.74E-01	4.99E-01	5.62E-01	6.11E-01	6.10E-01	5.97E-01	6.36E-01	6.88E-01	6.89E-01
4	X/Q (SRC 4)	8.31E-01	7.75E-01	7.77E-01	7.46E-01	6.60E-01	6.36E-01	6.48E-01	5.39E-01	4.24E-01	4.23E-01	4.61E-01	5.23E-01	5.47E-01	5.35E-01	5.29E-01	5.71E-01	6.22E-01	6.18E-01	5.71E-01
5	X/Q (SRC 5)	1.00E+00	1.00E+00	9.97E-01	9.59E-01	8.70E-01	8.13E-01	7.94E-01	7.94E-01	7.80E-01	7.69E-01	7.60E-01	7.81E-01	7.97E-01	7.80E-01	7.32E-01	6.76E-01	6.24E-01	5.66E-01	5.11E-01
6	X/Q (SRC 6)	6.83E-01	6.70E-01	6.60E-01	6.38E-01	5.90E-01	5.47E-01	5.10E-01	4.73E-01	4.46E-01	4.32E-01	4.21E-01	4.32E-01	4.52E-01	4.68E-01	4.81E-01	4.94E-01	5.21E-01	5.42E-01	5.32E-01
7	X/Q (SRC 7)	1.00E+00	1.11E+00	1.16E+00	1.12E+00	1.06E+00	1.03E+00	9.69E-01	8.84E-01	8.64E-01	7.59E-01	6.02E-01	5.89E-01	6.62E-01	7.31E-01	7.37E-01	7.33E-01	7.83E-01	8.28E-01	7.98E-01
8	X/Q (SRC 8)	2.99E-01	3.13E-01	3.32E-01	3.59E-01	3.72E-01	3.87E-01	3.98E-01	4.06E-01	4.11E-01	4.22E-01	4.16E-01	4.20E-01	4.16E-01	4.07E-01	3.98E-01	3.82E-01	3.62E-01	3.39E-01	3.21E-01
9	X/Q (SRC 9)	8.39E-01	8.18E-01	8.01E-01	7.76E-01	7.21E-01	6.69E-01	6.29E-01	6.02E-01	5.82E-01	5.70E-01	5.63E-01	5.81E-01	6.01E-01	6.09E-01	6.04E-01	5.88E-01	5.63E-01	5.30E-01	4.96E-01
10	X/Q (SRC 10)	3.86E-01	3.64E-01	2.95E-01	2.45E-01	2.39E-01	2.48E-01	2.66E-01	2.97E-01	3.17E-01	3.21E-01	3.13E-01	3.05E-01	3.15E-01	3.45E-01	3.75E-01	3.84E-01	3.70E-01	3.42E-01	3.09E-01
11	X/Q (SRC 11)	1.16E+00	1.28E+00	1.50E+00	1.69E+00	1.72E+00	1.63E+00	1.55E+00	1.44E+00	1.33E+00	1.16E+00	9.49E-01	9.75E-01	1.11E+00	1.15E+00	1.16E+00	1.23E+00	1.22E+00	1.06E+00	8.77E-01
12	X/Q (SRC 12)	7.99E-01	7.65E-01	7.36E-01	5.84E-01	5.27E-01	5.63E-01	6.47E-01	6.86E-01	6.68E-01	6.72E-01	7.35E-01	7.66E-01	7.23E-01	6.30E-01	5.33E-01	4.61E-01	4.16E-01	3.89E-01	3.75E-01
13	X/Q (SRC 13)	8.36E-01	8.14E-01	7.98E-01	7.70E-01	7.14E-01	6.64E-01	6.28E-01	6.02E-01	5.82E-01	5.70E-01	5.65E-01	5.84E-01	6.03E-01	6.09E-01	6.02E-01	5.84E-01	5.59E-01	5.26E-01	4.92E-01
14	X/Q (SRC 14)	8.40E-01	8.18E-01	8.01E-01	7.73E-01	7.17E-01	6.68E-01	6.31E-01	6.05E-01	5.84E-01	5.74E-01	5.69E-01	5.88E-01	6.06E-01	6.11E-01	6.04E-01	5.86E-01	5.60E-01	5.27E-01	4.92E-01
15	X/Q (SRC 15)	4.60E-01	4.36E-01	4.24E-01	4.10E-01	3.90E-01	3.66E-01	3.39E-01	3.09E-01	2.79E-01	2.65E-01	2.73E-01	2.91E-01	3.06E-01	3.17E-01	3.24E-01	3.28E-01	3.35E-01	3.47E-01	3.63E-01
16	X/Q (SRC 16)	8.39E-01	8.18E-01	8.01E-01	7.76E-01	7.21E-01	6.69E-01	6.29E-01	6.02E-01	5.82E-01	5.70E-01	5.63E-01	5.81E-01	6.01E-01	6.09E-01	6.04E-01	5.88E-01	5.63E-01	5.30E-01	4.96E-01
17	X/Q (SRC 17)	1.20E+00	1.13E+00	1.07E+00	1.03E+00	9.70E-01	8.73E-01	7.51E-01	7.12E-01	7.61E-01	8.19E-01	8.31E-01	8.48E-01	8.75E-01	8.78E-01	8.36E-01	7.53E-01	6.61E-01	5.83E-01	5.29E-01
18	X/Q (SRC 18)	8.39E-01	8.18E-01	8.01E-01	7.76E-01	7.21E-01	6.69E-01	6.29E-01	6.02E-01	5.82E-01	5.70E-01	5.63E-01	5.81E-01	6.01E-01	6.09E-01	6.04E-01	5.88E-01	5.63E-01	5.30E-01	4.96E-01
19	X/Q (SRC 19)	6.25E-01	6.35E-01	6.47E-01	6.53E-01	6.37E-01	6.07E-01	5.74E-01	5.44E-01	5.19E-01	4.96E-01	4.21E-01	3.88E-01	4.09E-01	4.51E-01	4.77E-01	4.83E-01	4.95E-01	5.03E-01	5.00E-01
20	X/Q (SRC 20)	9.81E-01	1.06E+00	1.11E+00	1.11E+00	1.07E+00	1.03E+00	9.72E-01	9.04E-01	8.56E-01	7.65E-01	6.40E-01	6.16E-01	6.75E-01	7.31E-01	7.41E-01	7.46E-01	7.78E-01	7.94E-01	7.64E-01
21	X/Q (SRC 21)	1.93E+00	2.16E+00	2.51E+00	2.93E+00	3.45E+00	4.24E+00	5.35E+00	7.04E+00	9.79E+00	1.63E+01	3.27E+01	1.07E+02	5.72E+01	2.60E+01	1.51E+01	9.73E+00	6.78E+00	4.97E+00	3.86E+00
22	X/Q (SRC 22)	7.25E-01	6.55E-01	6.53E-01	6.12E-01	5.10E-01	4.51E-01	4.61E-01	5.08E-01	5.46E-01	5.57E-01	5.51E-01	5.68E-01	5.98E-01	6.10E-01	5.85E-01	5.29E-01	4.65E-01	4.10E-01	3.72E-01
23	X/Q (SRC 23)	8.32E-01	7.93E-01	7.74E-01	7.38E-01	6.77E-01	6.49E-01	6.29E-01	5.48E-01	4.55E-01	4.40E-01	4.76E-01	5.26E-01	5.44E-01	5.37E-01	5.43E-01	5.71E-01	5.98E-01	5.88E-01	5.50E-01
24	X/Q (SRC 24)	9.91E-01	9.81E-01	9.77E-01	9.55E-01	8.81E-01	8.28E-01	8.07E-01	8.01E-01	7.86E-01	7.78E-01	7.67E-01	7.79E-01	7.85E-01	7.65E-01	7.25E-01	6.75E-01	6.25E-01	5.70E-01	5.21E-01
25	X/Q (SRC 25)	6.78E-01	6.63E-01	6.57E-01	6.35E-01	5.94E-01	5.55E-01	5.17E-01	4.83E-01	4.55E-01	4.43E-01	4.34E-01	4.41E-01	4.57E-01	4.72E-01	4.84E-01	4.96E-01	5.13E-01	5.21E-01	5.10E-01
26	X/Q (SRC 26)	8.10E-01	7.56E-01	7.15E-01	6.20E-01	5.56E-01	5.83E-01	6.52E-01	6.84E-01	6.76E-01	6.85E-01	7.21E-01	7.32E-01	6.95E-01	6.20E-01	5.40E-01	4.78E-01	4.36E-01	4.07E-01	3.89E-01
27	X/Q (SRC 27)	8.30E-01	8.08E-01	7.93E-01	7.76E-01	7.26E-01	6.79E-01	6.40E-01	6.13E-01	5.91E-01	5.81E-01	5.73E-01	5.86E-01	6.00E-01	6.05E-01	6.00E-01	5.83E-01	5.59E-01	5.27E-01	4.95E-01
28	X/Q (SRC 28)	8.30E-01	8.08E-01	7.93E-01	7.76E-01	7.26E-01	6.79E-01	6.40E-01	6.13E-01	5.91E-01	5.81E-01	5.73E-01	5.86E-01	6.00E-01	6.05E-01	6.00E-01	5.83E-01	5.59E-01	5.27E-01	4.95E-01
29	X/Q (SRC 29)	6.20E-01	6.26E-01	6.38E-01	6.46E-01	6.33E-01	6.10E-01	5.80E-01	5.50E-01	5.23E-01	4.96E-01	4.38E-01	4.05E-01	4.20E-01	4.55E-01	4.78E-01	4.85E-01	4.93E-01	4.95E-01	4.90E-01
30	X/Q (SRC 30)	8.31E-01	8.08E-01	7.93E-01	7.74E-01	7.23E-01	6.78E-01	6.42E-01	6.15E-01	5.94E-01	5.85E-01	5.78E-01	5.92E-01	6.05E-01	6.07E-01	5.99E-01	5.81E-01	5.56E-01	5.24E-01	4.92E-01
31	X/Q (SRC 31)	2.59E-01	2.51E-01	2.56E-01	2.61E-01	2.64E-01	2.67E-01	2.67E-01	2.65E-01	2.61E-01	2.57E-01	2.52E-01	2.46E-01	2.37E-01	2.29E-01	2.22E-01	2.13E-01	2.03E-01	1.92E-01	1.83E-01
32	X/Q (SRC 32)	1.48E+00	1.50E+00	1.47E+00	1.30E+00	1.06E+00	9.46E-01	9.63E-01	1.04E+00	1.14E+00	1.24E+00	1.27E+00	1.25E+00	1.23E+00	1.28E+00	1.40E+00	1.53E+00	1.57E+00	1.51E+00	1.38E+00
33	X/Q (SRC 33)	8.86E-01	7.45E-01	7.53E-01	7.78E-01	5.28E-01	4.91E-01	5.22E-01	6.19E-01	6.65E-01	6.48E-01	6.25E-01	7.25E-01	8.00E-01	7.54E-01	6.49E-01	5.33E-01	4.44E-01	3.91E-01	3.65E-01
34	X/Q (SRC 34)	4.08E-01	4.12E-01	3.00E-01	2.34E-01	2.47E-01	2.52E-01	2.68E-01	3.13E-01	3.31E-01	3.36E-01	3.27E-01	3.09E-01	3.28E-01	3.80E-01	4.17E-01	4.15E-01	3.90E-01	3.53E-01	3.11E-01
35	X/Q (SRC 35)	1.10E+00	1.24E+00	1.22E+00	1.07E+00	1.02E+00	1.04E+00	8.99E-01	8.39E-01	8.92E-01	6.24E-01	5.44E-01	5.84E-01	6.98E-01	7.46E-01	7.19E-01	7.26E-01	8.50E-01	8.80E-01	7.92E-01

ASCON Health Risk

Supplemental HRA

	Rec	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
1	X/Q (SRC 1)	3.32E-01	1.03E+00	1.05E+00	1.02E+00	9.50E-01	9.43E-01	9.09E-01	7.98E-01	7.86E-01	7.67E-01	5.99E-01	5.14E-01	5.42E-01	6.19E-01	6.70E-01	6.61E-01	6.56E-01	7.12E-01	7.60E-01
2	X/Q (SRC 2)	5.82E-01	9.63E-01	9.93E-01	1.09E+00	1.20E+00	1.33E+00	1.51E+00	1.74E+00	1.95E+00	1.94E+00	1.82E+00	1.71E+00	1.57E+00	1.43E+00	1.19E+00	1.11E+00	1.24E+00	1.31E+00	1.34E+00
3	X/Q (SRC 3)	6.30E-01	6.93E-01	7.06E-01	7.61E-01	8.32E-01	9.40E-01	1.07E+00	1.18E+00	1.19E+00	1.10E+00	1.04E+00	1.03E+00	9.24E-01	8.70E-01	8.58E-01	6.81E-01	5.83E-01	6.19E-01	7.06E-01
4	X/Q (SRC 4)	5.00E-01	7.04E-01	7.43E-01	8.51E-01	9.70E-01	1.05E+00	1.05E+00	9.72E-01	9.29E-01	9.18E-01	8.35E-01	7.58E-01	7.73E-01	6.73E-01	5.21E-01	5.12E-01	5.67E-01	6.41E-01	6.55E-01
5	X/Q (SRC 5)	4.63E-01	9.51E-01	9.53E-01	1.03E+00	1.10E+00	1.17E+00	1.21E+00	1.23E+00	1.26E+00	1.24E+00	1.15E+00	1.07E+00	1.05E+00	1.05E+00	1.02E+00	1.01E+00	1.00E+00	9.98E-01	9.79E-01
6	X/Q (SRC 6)	4.88E-01	6.94E-01	7.01E-01	7.33E-01	7.62E-01	7.84E-01	7.90E-01	7.85E-01	7.90E-01	7.74E-01	7.21E-01	6.60E-01	6.18E-01	5.76E-01	5.43E-01	5.25E-01	5.07E-01	5.16E-01	5.41E-01
7	X/Q (SRC 7)	7.04E-01	7.31E-01	7.42E-01	8.07E-01	8.74E-01	9.61E-01	1.05E+00	1.19E+00	1.35E+00	1.43E+00	1.37E+00	1.30E+00	1.25E+00	1.14E+00	1.08E+00	9.77E-01	7.77E-01	7.55E-01	8.53E-01
8	X/Q (SRC 8)	3.03E-01	2.23E-01	2.34E-01	2.54E-01	2.77E-01	3.06E-01	3.26E-01	3.48E-01	3.79E-01	4.12E-01	4.32E-01	4.51E-01	4.69E-01	4.84E-01	4.96E-01	5.08E-01	5.09E-01	5.08E-01	4.97E-01
9	X/Q (SRC 9)	4.60E-01	8.04E-01	8.19E-01	8.89E-01	9.48E-01	9.94E-01	1.01E+00	9.97E-01	1.00E+00	9.72E-01	9.11E-01	8.47E-01	7.99E-01	7.64E-01	7.39E-01	7.23E-01	7.13E-01	7.26E-01	7.38E-01
10	X/Q (SRC 10)	2.76E-01	5.05E-01	4.83E-01	4.71E-01	4.33E-01	4.17E-01	4.31E-01	4.21E-01	3.49E-01	2.81E-01	2.72E-01	2.82E-01	3.08E-01	3.44E-01	3.62E-01	3.62E-01	3.49E-01	3.49E-01	3.76E-01
11	X/Q (SRC 11)	7.39E-01	9.14E-01	9.30E-01	1.02E+00	1.11E+00	1.23E+00	1.32E+00	1.43E+00	1.66E+00	1.94E+00	2.20E+00	2.24E+00	2.14E+00	1.99E+00	1.83E+00	1.59E+00	1.33E+00	1.36E+00	1.51E+00
12	X/Q (SRC 12)	3.64E-01	1.22E+00	1.21E+00	1.20E+00	1.15E+00	1.15E+00	1.03E+00	9.42E-01	9.41E-01	7.50E-01	6.59E-01	7.19E-01	8.25E-01	8.44E-01	8.27E-01	8.80E-01	9.35E-01	8.91E-01	7.71E-01
13	X/Q (SRC 13)	4.57E-01	8.13E-01	8.27E-01	8.94E-01	9.51E-01	9.95E-01	1.00E+00	9.94E-01	9.96E-01	9.64E-01	9.03E-01	8.41E-01	7.97E-01	7.63E-01	7.38E-01	7.23E-01	7.16E-01	7.28E-01	7.38E-01
14	X/Q (SRC 14)	4.57E-01	8.16E-01	8.31E-01	8.98E-01	9.55E-01	1.00E+00	1.01E+00	9.99E-01	1.00E+00	9.69E-01	9.07E-01	8.46E-01	8.01E-01	7.68E-01	7.42E-01	7.28E-01	7.21E-01	7.33E-01	7.42E-01
15	X/Q (SRC 15)	3.74E-01	6.00E-01	5.99E-01	5.96E-01	5.78E-01	5.59E-01	5.35E-01	5.07E-01	4.92E-01	4.75E-01	4.51E-01	4.19E-01	3.87E-01	3.56E-01	3.24E-01	3.07E-01	3.15E-01	3.34E-01	3.50E-01
16	X/Q (SRC 16)	4.60E-01	8.04E-01	8.19E-01	8.89E-01	9.48E-01	9.94E-01	1.01E+00	9.97E-01	1.00E+00	9.72E-01	9.11E-01	8.47E-01	7.99E-01	7.64E-01	7.39E-01	7.23E-01	7.13E-01	7.26E-01	7.38E-01
17	X/Q (SRC 17)	4.94E-01	1.04E+00	1.09E+00	1.25E+00	1.41E+00	1.52E+00	1.53E+00	1.46E+00	1.42E+00	1.34E+00	1.24E+00	1.12E+00	9.64E-01	9.16E-01	9.84E-01	1.04E+00	1.06E+00	1.09E+00	1.10E+00
18	X/Q (SRC 18)	4.60E-01	8.04E-01	8.19E-01	8.89E-01	9.48E-01	9.94E-01	1.01E+00	9.97E-01	1.00E+00	9.72E-01	9.11E-01	8.47E-01	7.99E-01	7.64E-01	7.39E-01	7.23E-01	7.13E-01	7.26E-01	7.38E-01
19	X/Q (SRC 19)	4.84E-01	5.98E-01	6.00E-01	6.31E-01	6.57E-01	6.86E-01	7.04E-01	7.21E-01	7.47E-01	7.62E-01	7.66E-01	7.50E-01	7.14E-01	6.77E-01	6.43E-01	6.11E-01	5.27E-01	4.73E-01	5.03E-01
20	X/Q (SRC 20)	6.89E-01	7.31E-01	7.40E-01	8.03E-01	8.74E-01	9.73E-01	1.06E+00	1.17E+00	1.30E+00	1.37E+00	1.36E+00	1.31E+00	1.25E+00	1.16E+00	1.09E+00	9.78E-01	8.21E-01	7.88E-01	8.65E-01
21	X/Q (SRC 21)	3.09E+00	1.17E+00	1.24E+00	1.37E+00	1.53E+00	1.71E+00	1.91E+00	2.14E+00	2.49E+00	2.88E+00	3.40E+00	4.14E+00	5.23E+00	6.86E+00	9.47E+00	1.46E+01	2.61E+01	6.37E+01	6.76E+01
22	X/Q (SRC 22)	3.47E-01	9.80E-01	9.91E-01	9.99E-01	9.65E-01	9.44E-01	9.00E-01	8.10E-01	7.95E-01	7.49E-01	6.27E-01	5.45E-01	5.62E-01	6.26E-01	6.66E-01	6.66E-01	6.71E-01	7.06E-01	7.26E-01
23	X/Q (SRC 23)	4.93E-01	7.18E-01	7.52E-01	8.44E-01	9.36E-01	9.99E-01	1.02E+00	9.78E-01	9.42E-01	9.04E-01	8.39E-01	7.79E-01	7.56E-01	6.74E-01	5.59E-01	5.34E-01	5.83E-01	6.40E-01	6.52E-01
24	X/Q (SRC 24)	4.78E-01	9.41E-01	9.42E-01	1.02E+00	1.09E+00	1.17E+00	1.19E+00	1.21E+00	1.24E+00	1.22E+00	1.15E+00	1.08E+00	1.06E+00	1.05E+00	1.03E+00	1.02E+00	1.00E+00	9.89E-01	9.64E-01
25	X/Q (SRC 25)	4.73E-01	6.85E-01	6.90E-01	7.25E-01	7.54E-01	7.77E-01	7.85E-01	7.78E-01	7.84E-01	7.65E-01	7.21E-01	6.69E-01	6.25E-01	5.85E-01	5.54E-01	5.35E-01	5.21E-01	5.26E-01	5.47E-01
26	X/Q (SRC 26)	3.75E-01	1.16E+00	1.15E+00	1.18E+00	1.15E+00	1.14E+00	1.03E+00	9.41E-01	9.13E-01	7.87E-01	6.96E-01	7.41E-01	8.26E-01	8.45E-01	8.43E-01	8.75E-01	8.97E-01	8.54E-01	7.59E-01
27	X/Q (SRC 27)	4.63E-01	7.95E-01	8.07E-01	8.73E-01	9.31E-01	9.82E-01	9.92E-01	9.83E-01	9.93E-01	9.68E-01	9.13E-01	8.55E-01	8.09E-01	7.75E-01	7.49E-01	7.33E-01	7.22E-01	7.29E-01	7.35E-01
28	X/Q (SRC 28)	4.63E-01	7.95E-01	8.07E-01	8.73E-01	9.31E-01	9.82E-01	9.92E-01	9.83E-01	9.93E-01	9.68E-01	9.13E-01	8.55E-01	8.09E-01	7.75E-01	7.49E-01	7.33E-01	7.22E-01	7.29E-01	7.35E-01
29	X/Q (SRC 29)	4.75E-01	5.93E-01	5.93E-01	6.24E-01	6.52E-01	6.83E-01	6.98E-01	7.12E-01	7.41E-01	7.56E-01	7.57E-01	7.44E-01	7.17E-01	6.83E-01	6.48E-01	6.11E-01	5.44E-01	4.94E-01	5.16E-01
30	X/Q (SRC 30)	4.60E-01	8.06E-01	8.17E-01	8.83E-01	9.38E-01	9.88E-01	9.95E-01	9.84E-01	9.93E-01	9.66E-01	9.10E-01	8.54E-01	8.12E-01	7.78E-01	7.53E-01	7.38E-01	7.29E-01	7.35E-01	7.38E-01
31	X/Q (SRC 31)	1.75E-01	3.22E-01	2.92E-01	2.95E-01	3.01E-01	3.05E-01	2.98E-01	2.91E-01	2.99E-01	3.02E-01	3.01E-01	3.00E-01	2.97E-01	2.93E-01	2.88E-01	2.82E-01	2.75E-01	2.67E-01	2.57E-01
32	X/Q (SRC 32)	1.24E+00	2.19E+00	1.98E+00	1.99E+00	1.98E+00	1.89E+00	1.72E+00	1.70E+00	1.69E+00	1.52E+00	1.25E+00	1.09E+00	1.11E+00	1.21E+00	1.32E+00	1.43E+00	1.44E+00	1.41E+00	1.43E+00
33	X/Q (SRC 33)	3.55E-01	1.10E+00	1.25E+00	1.33E+00	1.20E+00	1.11E+00	1.13E+00	9.78E-01	9.12E-01	9.78E-01	6.84E-01	6.08E-01	6.60E-01	7.89E-01	8.22E-01	7.79E-01	8.40E-01	9.67E-01	9.33E-01
34	X/Q (SRC 34)	2.71E-01	5.16E-01	5.19E-01	5.13E-01	4.58E-01	4.24E-01	4.44E-01	4.78E-01	3.64E-01	2.70E-01	2.80E-01	2.87E-01	3.14E-01	3.65E-01	3.79E-01	3.81E-01	3.60E-01	3.58E-01	4.09E-01
35	X/Q (SRC 35)	6.57E-01	7.38E-01	7.70E-01	8.47E-01	8.99E-01	9.60E-01	1.08E+00	1.31E+00	1.52E+00	1.49E+00	1.30E+00	1.29E+00	1.22E+00	1.05E+00	1.11E+00	8.30E-01	6.89E-01	7.55E-01	9.03E-01

ASCON Health Risk

Supplemental HRA

	Rec	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
1	X/Q (SRC 1)	7.28E-01	6.45E-01	5.48E-01	4.68E-01	4.15E-01	3.86E-01	3.72E-01	1.06E+00	1.20E+00	1.30E+00	1.25E+00	1.17E+00	1.15E+00	1.06E+00	9.68E-01	9.58E-01	7.69E-01	6.42E-01	6.80E-01
2	X/Q (SRC 2)	1.39E+00	1.37E+00	1.18E+00	9.67E-01	8.18E-01	7.38E-01	6.94E-01	1.08E+00	1.15E+00	1.27E+00	1.40E+00	1.54E+00	1.71E+00	1.94E+00	2.29E+00	2.58E+00	2.58E+00	2.42E+00	2.21E+00
3	X/Q (SRC 3)	7.43E-01	7.30E-01	7.50E-01	8.22E-01	8.34E-01	7.61E-01	6.52E-01	7.46E-01	7.88E-01	8.63E-01	9.27E-01	9.99E-01	1.12E+00	1.29E+00	1.44E+00	1.45E+00	1.34E+00	1.29E+00	1.22E+00
4	X/Q (SRC 4)	6.29E-01	6.55E-01	7.27E-01	7.45E-01	6.84E-01	5.90E-01	5.02E-01	7.67E-01	8.09E-01	8.98E-01	1.01E+00	1.15E+00	1.27E+00	1.27E+00	1.17E+00	1.13E+00	1.08E+00	9.57E-01	9.34E-01
5	X/Q (SRC 5)	9.21E-01	8.49E-01	7.82E-01	7.13E-01	6.35E-01	5.69E-01	5.23E-01	1.06E+00	1.12E+00	1.23E+00	1.33E+00	1.42E+00	1.49E+00	1.56E+00	1.61E+00	1.61E+00	1.55E+00	1.49E+00	1.46E+00
6	X/Q (SRC 6)	5.60E-01	5.77E-01	6.02E-01	6.35E-01	6.29E-01	5.75E-01	5.00E-01	7.52E-01	7.86E-01	8.36E-01	8.71E-01	8.99E-01	9.21E-01	9.28E-01	9.38E-01	9.43E-01	9.02E-01	8.27E-01	7.65E-01
7	X/Q (SRC 7)	9.21E-01	9.18E-01	9.51E-01	1.02E+00	9.95E-01	8.72E-01	7.29E-01	8.00E-01	8.38E-01	9.20E-01	1.00E+00	1.08E+00	1.17E+00	1.29E+00	1.48E+00	1.70E+00	1.80E+00	1.73E+00	1.65E+00
8	X/Q (SRC 8)	4.80E-01	4.64E-01	4.43E-01	4.16E-01	3.86E-01	3.60E-01	3.37E-01	2.28E-01	2.44E-01	2.69E-01	2.97E-01	3.28E-01	3.58E-01	3.89E-01	4.28E-01	4.71E-01	5.06E-01	5.37E-01	5.61E-01
9	X/Q (SRC 9)	7.32E-01	7.15E-01	6.84E-01	6.43E-01	5.95E-01	5.48E-01	5.06E-01	8.72E-01	9.24E-01	1.02E+00	1.11E+00	1.17E+00	1.22E+00	1.25E+00	1.26E+00	1.24E+00	1.18E+00	1.12E+00	1.05E+00
10	X/Q (SRC 10)	4.12E-01	4.30E-01	4.18E-01	3.87E-01	3.46E-01	3.06E-01	2.72E-01	5.69E-01	5.58E-01	5.71E-01	5.32E-01	4.85E-01	4.88E-01	4.94E-01	4.16E-01	3.29E-01	3.13E-01	3.27E-01	3.61E-01
11	X/Q (SRC 11)	1.56E+00	1.63E+00	1.62E+00	1.42E+00	1.15E+00	9.68E-01	8.64E-01	9.91E-01	1.06E+00	1.18E+00	1.30E+00	1.42E+00	1.56E+00	1.71E+00	1.91E+00	2.20E+00	2.61E+00	2.99E+00	3.09E+00
12	X/Q (SRC 12)	6.45E-01	5.54E-01	4.99E-01	4.68E-01	4.49E-01	4.33E-01	4.17E-01	1.27E+00	1.42E+00	1.58E+00	1.56E+00	1.49E+00	1.41E+00	1.25E+00	1.22E+00	9.93E-01	8.50E-01	9.49E-01	1.07E+00
13	X/Q (SRC 13)	7.29E-01	7.10E-01	6.78E-01	6.37E-01	5.90E-01	5.44E-01	5.03E-01	8.81E-01	9.35E-01	1.03E+00	1.11E+00	1.18E+00	1.22E+00	1.24E+00	1.25E+00	1.23E+00	1.17E+00	1.11E+00	1.05E+00
14	X/Q (SRC 14)	7.32E-01	7.12E-01	6.80E-01	6.39E-01	5.91E-01	5.45E-01	5.04E-01	8.85E-01	9.39E-01	1.04E+00	1.12E+00	1.18E+00	1.23E+00	1.25E+00	1.26E+00	1.24E+00	1.18E+00	1.12E+00	1.06E+00
15	X/Q (SRC 15)	3.60E-01	3.69E-01	3.77E-01	3.90E-01	4.04E-01	4.16E-01	4.18E-01	6.33E-01	6.67E-01	6.89E-01	6.80E-01	6.60E-01	6.35E-01	6.04E-01	5.77E-01	5.56E-01	5.31E-01	4.92E-01	4.49E-01
16	X/Q (SRC 16)	7.32E-01	7.15E-01	6.84E-01	6.43E-01	5.95E-01	5.48E-01	5.06E-01	8.72E-01	9.24E-01	1.02E+00	1.11E+00	1.17E+00	1.22E+00	1.25E+00	1.26E+00	1.24E+00	1.18E+00	1.12E+00	1.05E+00
17	X/Q (SRC 17)	1.04E+00	9.37E-01	8.18E-01	7.19E-01	6.47E-01	6.00E-01	5.69E-01	1.13E+00	1.21E+00	1.40E+00	1.61E+00	1.80E+00	1.94E+00	1.96E+00	1.90E+00	1.79E+00	1.66E+00	1.49E+00	1.28E+00
18	X/Q (SRC 18)	7.32E-01	7.15E-01	6.84E-01	6.43E-01	5.95E-01	5.48E-01	5.06E-01	8.72E-01	9.24E-01	1.02E+00	1.11E+00	1.17E+00	1.22E+00	1.25E+00	1.26E+00	1.24E+00	1.18E+00	1.12E+00	1.05E+00
19	X/Q (SRC 19)	5.55E-01	5.78E-01	5.92E-01	6.04E-01	5.94E-01	5.69E-01	5.37E-01	6.48E-01	6.70E-01	7.13E-01	7.45E-01	7.74E-01	8.02E-01	8.31E-01	8.62E-01	8.90E-01	9.13E-01	9.27E-01	9.13E-01
20	X/Q (SRC 20)	9.18E-01	9.28E-01	9.55E-01	9.87E-01	9.51E-01	8.52E-01	7.38E-01	7.94E-01	8.34E-01	9.17E-01	1.00E+00	1.08E+00	1.18E+00	1.30E+00	1.47E+00	1.63E+00	1.73E+00	1.72E+00	1.64E+00
21	X/Q (SRC 21)	3.01E+01	1.76E+01	1.15E+01	8.01E+00	5.86E+00	4.49E+00	3.58E+00	1.13E+00	1.22E+00	1.36E+00	1.51E+00	1.67E+00	1.88E+00	2.13E+00	2.45E+00	2.85E+00	3.37E+00	4.09E+00	5.09E+00
22	X/Q (SRC 22)	6.94E-01	6.29E-01	5.50E-01	4.83E-01	4.34E-01	4.04E-01	3.87E-01	1.04E+00	1.14E+00	1.24E+00	1.23E+00	1.18E+00	1.14E+00	1.06E+00	9.91E-01	9.37E-01	7.95E-01	6.81E-01	7.02E-01
23	X/Q (SRC 23)	6.39E-01	6.64E-01	7.05E-01	7.08E-01	6.56E-01	5.81E-01	5.10E-01	7.64E-01	8.14E-01	9.13E-01	1.01E+00	1.11E+00	1.20E+00	1.23E+00	1.18E+00	1.13E+00	1.07E+00	9.79E-01	9.27E-01
24	X/Q (SRC 24)	9.10E-01	8.48E-01	7.85E-01	7.18E-01	6.48E-01	5.88E-01	5.45E-01	1.04E+00	1.10E+00	1.22E+00	1.32E+00	1.41E+00	1.48E+00	1.54E+00	1.59E+00	1.60E+00	1.54E+00	1.48E+00	1.46E+00
25	X/Q (SRC 25)	5.63E-01	5.79E-01	5.98E-01	6.14E-01	6.01E-01	5.56E-01	4.96E-01	7.40E-01	7.74E-01	8.27E-01	8.65E-01	8.90E-01	9.13E-01	9.24E-01	9.33E-01	9.28E-01	8.94E-01	8.33E-01	7.72E-01
26	X/Q (SRC 26)	6.55E-01	5.77E-01	5.23E-01	4.89E-01	4.65E-01	4.46E-01	4.29E-01	1.25E+00	1.36E+00	1.51E+00	1.54E+00	1.49E+00	1.40E+00	1.25E+00	1.20E+00	1.03E+00	8.98E-01	9.72E-01	1.07E+00
27	X/Q (SRC 27)	7.26E-01	7.09E-01	6.80E-01	6.41E-01	5.96E-01	5.52E-01	5.14E-01	8.61E-01	9.11E-01	1.01E+00	1.09E+00	1.16E+00	1.21E+00	1.23E+00	1.24E+00	1.23E+00	1.18E+00	1.12E+00	1.06E+00
28	X/Q (SRC 28)	7.26E-01	7.09E-01	6.80E-01	6.41E-01	5.96E-01	5.52E-01	5.14E-01	8.61E-01	9.11E-01	1.01E+00	1.09E+00	1.16E+00	1.21E+00	1.23E+00	1.24E+00	1.23E+00	1.18E+00	1.12E+00	1.06E+00
29	X/Q (SRC 29)	5.57E-01	5.79E-01	5.91E-01	5.96E-01	5.83E-01	5.60E-01	5.30E-01	6.40E-01	6.61E-01	7.05E-01	7.40E-01	7.70E-01	7.98E-01	8.26E-01	8.56E-01	8.84E-01	9.05E-01	9.16E-01	9.05E-01
30	X/Q (SRC 30)	7.26E-01	7.07E-01	6.77E-01	6.37E-01	5.92E-01	5.50E-01	5.11E-01	8.73E-01	9.25E-01	1.02E+00	1.11E+00	1.17E+00	1.21E+00	1.24E+00	1.25E+00	1.23E+00	1.18E+00	1.12E+00	1.06E+00
31	X/Q (SRC 31)	2.46E-01	2.37E-01	2.26E-01	2.15E-01	2.03E-01	1.93E-01	1.85E-01	3.67E-01	3.44E-01	3.54E-01	3.63E-01	3.57E-01	3.51E-01	3.49E-01	3.52E-01	3.50E-01	3.45E-01	3.39E-01	3.32E-01
32	X/Q (SRC 32)	1.53E+00	1.69E+00	1.77E+00	1.72E+00	1.57E+00	1.39E+00	1.21E+00	2.67E+00	2.41E+00	2.36E+00	2.35E+00	2.26E+00	2.07E+00	1.98E+00	1.96E+00	1.78E+00	1.49E+00	1.27E+00	1.29E+00
33	X/Q (SRC 33)	7.93E-01	6.39E-01	5.27E-01	4.66E-01	4.38E-01	4.27E-01	4.20E-01	1.06E+00	1.26E+00	1.59E+00	1.69E+00	1.50E+00	1.42E+00	1.37E+00	1.17E+00	1.23E+00	9.22E-01	7.79E-01	8.68E-01
34	X/Q (SRC 34)	4.61E-01	4.70E-01	4.44E-01	4.01E-01	3.48E-01	3.00E-01	2.64E-01	5.92E-01	5.84E-01	6.26E-01	5.74E-01	5.03E-01	4.96E-01	5.54E-01	4.47E-01	3.18E-01	3.24E-01	3.34E-01	3.74E-01
35	X/Q (SRC 35)	9.27E-01	8.89E-01	1.01E+00	1.10E+00	9.93E-01	8.08E-01	6.45E-01	8.12E-01	8.43E-01	9.38E-01	1.04E+00	1.13E+00	1.19E+00	1.32E+00	1.62E+00	1.91E+00	1.87E+00	1.65E+00	1.65E+00

ASCON Health Risk

Supplemental HRA

	Rec	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131
1	X/Q (SRC 1)	7.85E-01	8.30E-01	8.07E-01	8.46E-01	9.24E-01	9.02E-01	7.90E-01	6.58E-01	5.59E-01	4.98E-01	4.63E-01	4.44E-01	4.31E-01	1.15E+00	1.31E+00	1.51E+00	1.62E+00	1.55E+00	1.46E+00
2	X/Q (SRC 2)	2.00E+00	1.70E+00	1.58E+00	1.75E+00	1.84E+00	1.90E+00	1.86E+00	1.60E+00	1.30E+00	1.10E+00	9.88E-01	9.11E-01	8.53E-01	1.22E+00	1.34E+00	1.47E+00	1.63E+00	1.81E+00	2.02E+00
3	X/Q (SRC 3)	1.09E+00	1.09E+00	8.84E-01	7.38E-01	7.97E-01	9.09E-01	9.29E-01	9.13E-01	9.93E-01	1.05E+00	9.54E-01	7.99E-01	6.68E-01	8.51E-01	9.06E-01	9.72E-01	1.05E+00	1.13E+00	1.23E+00
4	X/Q (SRC 4)	8.54E-01	6.58E-01	6.36E-01	7.17E-01	8.06E-01	7.96E-01	7.84E-01	8.54E-01	9.06E-01	8.47E-01	7.18E-01	5.97E-01	5.17E-01	8.73E-01	9.33E-01	1.00E+00	1.08E+00	1.22E+00	1.41E+00
5	X/Q (SRC 5)	1.44E+00	1.41E+00	1.39E+00	1.35E+00	1.28E+00	1.22E+00	1.12E+00	1.02E+00	9.31E-01	8.27E-01	7.31E-01	6.63E-01	6.19E-01	1.25E+00	1.35E+00	1.46E+00	1.59E+00	1.72E+00	1.85E+00
6	X/Q (SRC 6)	7.17E-01	6.78E-01	6.50E-01	6.24E-01	6.33E-01	6.67E-01	6.94E-01	7.11E-01	7.50E-01	7.64E-01	6.98E-01	5.95E-01	5.05E-01	8.37E-01	8.95E-01	9.49E-01	9.95E-01	1.04E+00	1.08E+00
7	X/Q (SRC 7)	1.54E+00	1.42E+00	1.30E+00	1.04E+00	9.96E-01	1.14E+00	1.20E+00	1.20E+00	1.29E+00	1.29E+00	1.12E+00	9.21E-01	7.78E-01	9.15E-01	9.79E-01	1.05E+00	1.13E+00	1.23E+00	1.34E+00
8	X/Q (SRC 8)	5.84E-01	6.10E-01	6.22E-01	6.27E-01	6.25E-01	6.07E-01	5.82E-01	5.51E-01	5.18E-01	4.84E-01	4.42E-01	4.05E-01	3.77E-01	2.39E-01	2.58E-01	2.83E-01	3.13E-01	3.46E-01	3.82E-01
9	X/Q (SRC 9)	1.01E+00	9.77E-01	9.49E-01	9.27E-01	9.26E-01	9.26E-01	9.02E-01	8.57E-01	8.03E-01	7.41E-01	6.77E-01	6.18E-01	5.69E-01	1.00E+00	1.08E+00	1.18E+00	1.28E+00	1.38E+00	1.48E+00
10	X/Q (SRC 10)	4.02E-01	4.17E-01	4.09E-01	3.98E-01	4.16E-01	4.59E-01	4.86E-01	4.77E-01	4.42E-01	3.93E-01	3.43E-01	3.02E-01	2.74E-01	7.09E-01	6.73E-01	6.82E-01	6.53E-01	5.83E-01	5.59E-01
11	X/Q (SRC 11)	2.93E+00	2.66E+00	2.32E+00	1.97E+00	1.98E+00	2.19E+00	2.29E+00	2.29E+00	2.01E+00	1.60E+00	1.34E+00	1.19E+00	1.09E+00	1.11E+00	1.21E+00	1.33E+00	1.47E+00	1.63E+00	1.81E+00
12	X/Q (SRC 12)	1.07E+00	1.09E+00	1.18E+00	1.13E+00	9.69E-01	8.05E-01	6.86E-01	6.17E-01	5.79E-01	5.50E-01	5.26E-01	5.01E-01	4.78E-01	1.46E+00	1.67E+00	1.92E+00	2.06E+00	2.02E+00	1.90E+00
13	X/Q (SRC 13)	1.01E+00	9.76E-01	9.50E-01	9.29E-01	9.25E-01	9.22E-01	8.95E-01	8.49E-01	7.96E-01	7.35E-01	6.71E-01	6.13E-01	5.66E-01	1.01E+00	1.10E+00	1.19E+00	1.29E+00	1.39E+00	1.48E+00
14	X/Q (SRC 14)	1.01E+00	9.83E-01	9.57E-01	9.36E-01	9.31E-01	9.27E-01	8.99E-01	8.52E-01	7.98E-01	7.37E-01	6.73E-01	6.15E-01	5.67E-01	1.02E+00	1.10E+00	1.20E+00	1.30E+00	1.40E+00	1.49E+00
15	X/Q (SRC 15)	4.14E-01	3.81E-01	3.60E-01	3.67E-01	3.89E-01	4.06E-01	4.18E-01	4.28E-01	4.42E-01	4.59E-01	4.70E-01	4.71E-01	4.57E-01	6.71E-01	7.28E-01	7.72E-01	7.90E-01	7.83E-01	7.61E-01
16	X/Q (SRC 16)	1.01E+00	9.77E-01	9.49E-01	9.27E-01	9.26E-01	9.26E-01	9.02E-01	8.57E-01	8.03E-01	7.41E-01	6.77E-01	6.18E-01	5.69E-01	1.00E+00	1.08E+00	1.18E+00	1.28E+00	1.38E+00	1.48E+00
17	X/Q (SRC 17)	1.22E+00	1.32E+00	1.39E+00	1.42E+00	1.42E+00	1.36E+00	1.21E+00	1.05E+00	9.15E-01	8.24E-01	7.58E-01	7.09E-01	6.73E-01	1.34E+00	1.46E+00	1.62E+00	1.83E+00	2.08E+00	2.35E+00
18	X/Q (SRC 18)	1.01E+00	9.77E-01	9.49E-01	9.27E-01	9.26E-01	9.26E-01	9.02E-01	8.57E-01	8.03E-01	7.41E-01	6.77E-01	6.18E-01	5.69E-01	1.00E+00	1.08E+00	1.18E+00	1.28E+00	1.38E+00	1.48E+00
19	X/Q (SRC 19)	8.71E-01	8.29E-01	7.78E-01	6.84E-01	5.96E-01	6.46E-01	7.08E-01	7.28E-01	7.47E-01	7.35E-01	6.93E-01	6.45E-01	5.99E-01	7.29E-01	7.63E-01	8.02E-01	8.41E-01	8.77E-01	9.13E-01
20	X/Q (SRC 20)	1.54E+00	1.43E+00	1.29E+00	1.09E+00	1.04E+00	1.15E+00	1.20E+00	1.21E+00	1.26E+00	1.23E+00	1.10E+00	9.33E-01	8.10E-01	9.03E-01	9.68E-01	1.04E+00	1.13E+00	1.23E+00	1.34E+00
21	X/Q (SRC 21)	6.65E+00	9.30E+00	1.37E+01	2.37E+01	6.12E+01	7.49E+01	3.38E+01	1.92E+01	1.26E+01	8.95E+00	6.56E+00	5.02E+00	4.01E+00	1.12E+00	1.21E+00	1.33E+00	1.46E+00	1.63E+00	1.82E+00
22	X/Q (SRC 22)	7.87E-01	8.27E-01	8.21E-01	8.51E-01	8.90E-01	8.59E-01	7.68E-01	6.62E-01	5.79E-01	5.23E-01	4.84E-01	4.59E-01	4.43E-01	1.16E+00	1.30E+00	1.45E+00	1.54E+00	1.53E+00	1.47E+00
23	X/Q (SRC 23)	8.44E-01	7.04E-01	6.63E-01	7.32E-01	8.01E-01	7.97E-01	7.99E-01	8.39E-01	8.61E-01	8.12E-01	7.08E-01	6.08E-01	5.40E-01	8.73E-01	9.33E-01	1.01E+00	1.10E+00	1.22E+00	1.37E+00
24	X/Q (SRC 24)	1.44E+00	1.41E+00	1.39E+00	1.34E+00	1.28E+00	1.21E+00	1.12E+00	1.02E+00	9.38E-01	8.46E-01	7.57E-01	6.89E-01	6.43E-01	1.23E+00	1.33E+00	1.44E+00	1.57E+00	1.70E+00	1.83E+00
25	X/Q (SRC 25)	7.25E-01	6.92E-01	6.61E-01	6.39E-01	6.46E-01	6.73E-01	6.94E-01	7.08E-01	7.32E-01	7.31E-01	6.74E-01	5.90E-01	5.18E-01	8.29E-01	8.84E-01	9.38E-01	9.86E-01	1.03E+00	1.07E+00
26	X/Q (SRC 26)	1.08E+00	1.10E+00	1.14E+00	1.09E+00	9.54E-01	8.21E-01	7.16E-01	6.46E-01	6.03E-01	5.69E-01	5.44E-01	5.18E-01	4.96E-01	1.46E+00	1.64E+00	1.84E+00	1.99E+00	1.99E+00	1.87E+00
27	X/Q (SRC 27)	1.02E+00	9.87E-01	9.57E-01	9.35E-01	9.28E-01	9.21E-01	8.95E-01	8.51E-01	8.01E-01	7.45E-01	6.84E-01	6.27E-01	5.82E-01	9.94E-01	1.07E+00	1.16E+00	1.26E+00	1.36E+00	1.45E+00
28	X/Q (SRC 28)	1.02E+00	9.87E-01	9.57E-01	9.35E-01	9.28E-01	9.21E-01	8.95E-01	8.51E-01	8.01E-01	7.45E-01	6.84E-01	6.27E-01	5.82E-01	9.94E-01	1.07E+00	1.16E+00	1.26E+00	1.36E+00	1.45E+00
29	X/Q (SRC 29)	8.73E-01	8.33E-01	7.80E-01	6.98E-01	6.24E-01	6.58E-01	7.08E-01	7.26E-01	7.37E-01	7.23E-01	6.84E-01	6.39E-01	5.96E-01	7.22E-01	7.56E-01	7.94E-01	8.34E-01	8.71E-01	9.07E-01
30	X/Q (SRC 30)	1.02E+00	9.92E-01	9.64E-01	9.42E-01	9.33E-01	9.22E-01	8.93E-01	8.47E-01	7.97E-01	7.41E-01	6.80E-01	6.25E-01	5.80E-01	1.01E+00	1.09E+00	1.18E+00	1.29E+00	1.38E+00	1.47E+00
31	X/Q (SRC 31)	3.26E-01	3.21E-01	3.12E-01	3.03E-01	2.92E-01	2.79E-01	2.67E-01	2.53E-01	2.41E-01	2.29E-01	2.17E-01	2.06E-01	1.99E-01	4.61E-01	4.36E-01	4.34E-01	4.35E-01	4.27E-01	4.20E-01
32	X/Q (SRC 32)	1.42E+00	1.56E+00	1.66E+00	1.65E+00	1.64E+00	1.72E+00	1.88E+00	2.00E+00	1.97E+00	1.81E+00	1.58E+00	1.36E+00	1.18E+00	3.32E+00	3.12E+00	2.89E+00	2.79E+00	2.69E+00	2.52E+00
33	X/Q (SRC 33)	1.03E+00	1.02E+00	1.02E+00	1.19E+00	1.19E+00	1.00E+00	7.90E-01	6.44E-01	5.73E-01	5.44E-01	5.28E-01	5.09E-01	4.83E-01	1.28E+00	1.38E+00	1.64E+00	2.03E+00	2.16E+00	1.90E+00
34	X/Q (SRC 34)	4.29E-01	4.40E-01	4.30E-01	4.07E-01	4.45E-01	5.16E-01	5.39E-01	5.11E-01	4.60E-01	3.96E-01	3.36E-01	2.93E-01	2.67E-01	7.74E-01	6.99E-01	7.26E-01	7.20E-01	6.19E-01	5.70E-01
35	X/Q (SRC 35)	1.42E+00	1.40E+00	1.15E+00	9.05E-01	1.01E+00	1.20E+00	1.18E+00	1.22E+00	1.40E+00	1.30E+00	1.03E+00	8.06E-01	6.87E-01	9.66E-01	1.02E+00	1.09E+00	1.17E+00	1.27E+00	1.40E+00

ASCON Health Risk

Supplemental HRA

	Rec	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
1	X/Q (SRC 1)	1.40E+00	1.25E+00	1.22E+00	1.02E+00	8.31E-01	8.93E-01	1.03E+00	1.05E+00	1.05E+00	1.15E+00	1.15E+00	1.00E+00	8.24E-01	6.87E-01	6.11E-01	5.75E-01	5.48E-01	5.23E-01	4.99E-01
2	X/Q (SRC 2)	2.28E+00	2.64E+00	3.16E+00	3.65E+00	3.69E+00	3.39E+00	3.09E+00	2.58E+00	2.43E+00	2.67E+00	2.79E+00	2.73E+00	2.36E+00	1.86E+00	1.56E+00	1.41E+00	1.28E+00	1.16E+00	1.07E+00
3	X/Q (SRC 3)	1.37E+00	1.60E+00	1.81E+00	1.83E+00	1.70E+00	1.64E+00	1.48E+00	1.41E+00	1.20E+00	9.75E-01	1.07E+00	1.20E+00	1.20E+00	1.24E+00	1.32E+00	1.24E+00	1.03E+00	8.41E-01	7.29E-01
4	X/Q (SRC 4)	1.57E+00	1.56E+00	1.44E+00	1.41E+00	1.28E+00	1.18E+00	1.13E+00	8.55E-01	8.19E-01	9.47E-01	1.03E+00	9.95E-01	1.05E+00	1.12E+00	1.06E+00	9.05E-01	7.41E-01	6.34E-01	5.79E-01
5	X/Q (SRC 5)	1.99E+00	2.11E+00	2.19E+00	2.16E+00	2.14E+00	2.19E+00	2.16E+00	2.10E+00	2.01E+00	1.85E+00	1.71E+00	1.58E+00	1.44E+00	1.29E+00	1.13E+00	9.93E-01	8.90E-01	8.15E-01	7.55E-01
6	X/Q (SRC 6)	1.10E+00	1.12E+00	1.14E+00	1.14E+00	1.07E+00	9.89E-01	9.31E-01	8.75E-01	8.31E-01	7.95E-01	8.00E-01	8.50E-01	8.86E-01	9.10E-01	9.34E-01	8.76E-01	7.39E-01	6.14E-01	5.35E-01
7	X/Q (SRC 7)	1.46E+00	1.64E+00	1.90E+00	2.20E+00	2.36E+00	2.29E+00	2.16E+00	1.97E+00	1.78E+00	1.44E+00	1.39E+00	1.58E+00	1.64E+00	1.70E+00	1.72E+00	1.52E+00	1.23E+00	1.02E+00	9.12E-01
8	X/Q (SRC 8)	4.24E-01	4.74E-01	5.36E-01	5.95E-01	6.50E-01	6.90E-01	7.33E-01	7.60E-01	7.79E-01	7.76E-01	7.81E-01	7.52E-01	7.20E-01	6.65E-01	6.11E-01	5.65E-01	5.12E-01	4.65E-01	4.27E-01
9	X/Q (SRC 9)	1.55E+00	1.60E+00	1.62E+00	1.58E+00	1.53E+00	1.47E+00	1.42E+00	1.36E+00	1.30E+00	1.25E+00	1.22E+00	1.20E+00	1.14E+00	1.05E+00	9.59E-01	8.73E-01	7.91E-01	7.19E-01	6.57E-01
10	X/Q (SRC 10)	5.75E-01	5.01E-01	3.91E-01	3.67E-01	3.86E-01	4.33E-01	4.77E-01	4.84E-01	4.68E-01	4.69E-01	5.15E-01	5.56E-01	5.55E-01	5.11E-01	4.51E-01	3.91E-01	3.42E-01	3.09E-01	2.89E-01
11	X/Q (SRC 11)	2.03E+00	2.29E+00	2.63E+00	3.07E+00	3.72E+00	4.39E+00	4.56E+00	4.24E+00	3.69E+00	3.12E+00	3.18E+00	3.52E+00	3.52E+00	3.10E+00	2.44E+00	1.99E+00	1.76E+00	1.59E+00	1.43E+00
12	X/Q (SRC 12)	1.72E+00	1.60E+00	1.37E+00	1.14E+00	1.30E+00	1.44E+00	1.42E+00	1.52E+00	1.50E+00	1.27E+00	1.04E+00	8.86E-01	7.97E-01	7.42E-01	6.98E-01	6.57E-01	6.22E-01	5.88E-01	5.59E-01
13	X/Q (SRC 13)	1.55E+00	1.60E+00	1.61E+00	1.57E+00	1.52E+00	1.47E+00	1.42E+00	1.36E+00	1.30E+00	1.24E+00	1.22E+00	1.19E+00	1.13E+00	1.04E+00	9.50E-01	8.65E-01	7.84E-01	7.13E-01	6.53E-01
14	X/Q (SRC 14)	1.56E+00	1.61E+00	1.62E+00	1.58E+00	1.53E+00	1.48E+00	1.43E+00	1.37E+00	1.31E+00	1.25E+00	1.23E+00	1.19E+00	1.13E+00	1.05E+00	9.53E-01	8.68E-01	7.87E-01	7.15E-01	6.55E-01
15	X/Q (SRC 15)	7.27E-01	6.88E-01	6.59E-01	6.34E-01	5.89E-01	5.33E-01	4.92E-01	4.54E-01	4.30E-01	4.37E-01	4.59E-01	4.77E-01	4.96E-01	5.10E-01	5.25E-01	5.42E-01	5.44E-01	5.27E-01	4.87E-01
16	X/Q (SRC 16)	1.55E+00	1.60E+00	1.62E+00	1.58E+00	1.53E+00	1.47E+00	1.42E+00	1.36E+00	1.30E+00	1.25E+00	1.22E+00	1.20E+00	1.14E+00	1.05E+00	9.59E-01	8.73E-01	7.91E-01	7.19E-01	6.57E-01
17	X/Q (SRC 17)	2.55E+00	2.61E+00	2.53E+00	2.34E+00	2.10E+00	1.82E+00	1.73E+00	1.85E+00	1.93E+00	1.93E+00	1.86E+00	1.65E+00	1.42E+00	1.22E+00	1.09E+00	9.99E-01	9.26E-01	8.64E-01	8.10E-01
18	X/Q (SRC 18)	1.55E+00	1.60E+00	1.62E+00	1.58E+00	1.53E+00	1.47E+00	1.42E+00	1.36E+00	1.30E+00	1.25E+00	1.22E+00	1.20E+00	1.14E+00	1.05E+00	9.59E-01	8.73E-01	7.91E-01	7.19E-01	6.57E-01
19	X/Q (SRC 19)	9.54E-01	1.00E+00	1.05E+00	1.09E+00	1.14E+00	1.17E+00	1.18E+00	1.12E+00	1.05E+00	9.26E-01	7.93E-01	8.77E-01	9.46E-01	9.69E-01	9.44E-01	8.85E-01	8.15E-01	7.47E-01	6.79E-01
20	X/Q (SRC 20)	1.46E+00	1.64E+00	1.88E+00	2.12E+00	2.27E+00	2.26E+00	2.14E+00	1.97E+00	1.78E+00	1.49E+00	1.44E+00	1.58E+00	1.64E+00	1.67E+00	1.65E+00	1.48E+00	1.25E+00	1.07E+00	9.53E-01
21	X/Q (SRC 21)	2.07E+00	2.38E+00	2.78E+00	3.31E+00	4.02E+00	4.98E+00	6.56E+00	8.97E+00	1.33E+01	2.35E+01	5.68E+01	7.65E+01	3.63E+01	2.03E+01	1.33E+01	9.52E+00	7.06E+00	5.45E+00	4.34E+00
22	X/Q (SRC 22)	1.39E+00	1.28E+00	1.20E+00	1.04E+00	8.82E-01	9.18E-01	1.03E+00	1.05E+00	1.06E+00	1.12E+00	1.09E+00	9.72E-01	8.32E-01	7.14E-01	6.40E-01	5.99E-01	5.66E-01	5.38E-01	5.15E-01
23	X/Q (SRC 23)	1.49E+00	1.52E+00	1.45E+00	1.39E+00	1.29E+00	1.19E+00	1.11E+00	9.08E-01	8.54E-01	9.59E-01	1.02E+00	1.01E+00	1.05E+00	1.07E+00	1.01E+00	8.93E-01	7.59E-01	6.63E-01	6.06E-01
24	X/Q (SRC 24)	1.96E+00	2.08E+00	2.16E+00	2.14E+00	2.13E+00	2.16E+00	2.14E+00	2.08E+00	1.98E+00	1.83E+00	1.71E+00	1.58E+00	1.45E+00	1.30E+00	1.16E+00	1.03E+00	9.24E-01	8.43E-01	7.79E-01
25	X/Q (SRC 25)	1.09E+00	1.11E+00	1.13E+00	1.12E+00	1.07E+00	9.94E-01	9.40E-01	8.87E-01	8.44E-01	8.13E-01	8.15E-01	8.51E-01	8.82E-01	8.94E-01	8.96E-01	8.44E-01	7.34E-01	6.31E-01	5.60E-01
26	X/Q (SRC 26)	1.70E+00	1.57E+00	1.40E+00	1.20E+00	1.32E+00	1.43E+00	1.43E+00	1.49E+00	1.43E+00	1.25E+00	1.06E+00	9.26E-01	8.34E-01	7.71E-01	7.23E-01	6.82E-01	6.46E-01	6.12E-01	5.80E-01
27	X/Q (SRC 27)	1.53E+00	1.58E+00	1.60E+00	1.57E+00	1.53E+00	1.47E+00	1.42E+00	1.37E+00	1.31E+00	1.25E+00	1.22E+00	1.19E+00	1.13E+00	1.05E+00	9.63E-01	8.84E-01	8.05E-01	7.34E-01	6.75E-01
28	X/Q (SRC 28)	1.53E+00	1.58E+00	1.60E+00	1.57E+00	1.53E+00	1.47E+00	1.42E+00	1.37E+00	1.31E+00	1.25E+00	1.22E+00	1.19E+00	1.13E+00	1.05E+00	9.63E-01	8.84E-01	8.05E-01	7.34E-01	6.75E-01
29	X/Q (SRC 29)	9.48E-01	9.92E-01	1.04E+00	1.08E+00	1.13E+00	1.16E+00	1.17E+00	1.12E+00	1.05E+00	9.34E-01	8.28E-01	8.82E-01	9.43E-01	9.54E-01	9.27E-01	8.77E-01	8.11E-01	7.45E-01	6.82E-01
30	X/Q (SRC 30)	1.54E+00	1.59E+00	1.60E+00	1.57E+00	1.53E+00	1.48E+00	1.43E+00	1.38E+00	1.32E+00	1.25E+00	1.23E+00	1.19E+00	1.13E+00	1.05E+00	9.58E-01	8.80E-01	8.01E-01	7.32E-01	6.73E-01
31	X/Q (SRC 31)	4.17E-01	4.15E-01	4.08E-01	3.96E-01	3.86E-01	3.76E-01	3.69E-01	3.60E-01	3.49E-01	3.36E-01	3.21E-01	3.05E-01	2.91E-01	2.74E-01	2.59E-01	2.47E-01	2.34E-01	2.24E-01	2.15E-01
32	X/Q (SRC 32)	2.35E+00	2.30E+00	2.10E+00	1.80E+00	1.52E+00	1.54E+00	1.70E+00	1.87E+00	1.95E+00	1.92E+00	1.97E+00	2.13E+00	2.30E+00	2.29E+00	2.10E+00	1.83E+00	1.56E+00	1.34E+00	1.20E+00
33	X/Q (SRC 33)	1.84E+00	1.63E+00	1.57E+00	1.29E+00	1.04E+00	1.20E+00	1.37E+00	1.33E+00	1.48E+00	1.56E+00	1.32E+00	1.01E+00	8.22E-01	7.37E-01	7.00E-01	6.70E-01	6.29E-01	5.84E-01	5.48E-01
34	X/Q (SRC 34)	6.32E-01	5.53E-01	3.81E-01	3.80E-01	3.96E-01	4.56E-01	5.10E-01	5.15E-01	4.88E-01	4.94E-01	5.77E-01	6.26E-01	6.01E-01	5.35E-01	4.54E-01	3.83E-01	3.32E-01	3.02E-01	2.87E-01
35	X/Q (SRC 35)	1.52E+00	1.68E+00	2.06E+00	2.49E+00	2.44E+00	2.21E+00	2.10E+00	1.85E+00	1.65E+00	1.23E+00	1.45E+00	1.64E+00	1.61E+00	1.84E+00	1.76E+00	1.38E+00	1.06E+00	9.05E-01	8.43E-01

ASCON Health Risk

Supplemental HRA

	Rec	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169
1	X/Q (SRC 1)	1.30E+00	1.43E+00	1.65E+00	1.92E+00	2.06E+00	1.98E+00	1.89E+00	1.73E+00	1.60E+00	1.40E+00	1.12E+00	1.23E+00	1.39E+00	1.37E+00	1.46E+00	1.52E+00	1.33E+00	1.07E+00	8.87E-01
2	X/Q (SRC 2)	1.37E+00	1.52E+00	1.69E+00	1.89E+00	2.12E+00	2.42E+00	2.79E+00	3.24E+00	3.84E+00	4.74E+00	5.70E+00	5.80E+00	5.27E+00	4.34E+00	4.20E+00	4.56E+00	4.54E+00	3.87E+00	3.03E+00
3	X/Q (SRC 3)	9.50E-01	1.02E+00	1.10E+00	1.19E+00	1.29E+00	1.41E+00	1.55E+00	1.75E+00	2.05E+00	2.37E+00	2.41E+00	2.26E+00	2.12E+00	1.89E+00	1.69E+00	1.35E+00	1.51E+00	1.65E+00	1.66E+00
4	X/Q (SRC 4)	9.73E-01	1.05E+00	1.14E+00	1.23E+00	1.34E+00	1.52E+00	1.77E+00	2.01E+00	1.98E+00	1.86E+00	1.79E+00	1.58E+00	1.52E+00	1.15E+00	1.10E+00	1.30E+00	1.35E+00	1.34E+00	1.47E+00
5	X/Q (SRC 5)	1.44E+00	1.58E+00	1.73E+00	1.90E+00	2.09E+00	2.33E+00	2.60E+00	2.87E+00	3.13E+00	3.23E+00	3.27E+00	3.50E+00	3.56E+00	3.41E+00	3.10E+00	2.74E+00	2.45E+00	2.24E+00	1.99E+00
6	X/Q (SRC 6)	9.15E-01	9.94E-01	1.07E+00	1.14E+00	1.20E+00	1.27E+00	1.32E+00	1.35E+00	1.39E+00	1.42E+00	1.39E+00	1.33E+00	1.25E+00	1.17E+00	1.11E+00	1.05E+00	1.06E+00	1.13E+00	1.17E+00
7	X/Q (SRC 7)	1.01E+00	1.09E+00	1.18E+00	1.29E+00	1.41E+00	1.55E+00	1.71E+00	1.90E+00	2.18E+00	2.54E+00	3.00E+00	3.27E+00	3.18E+00	2.94E+00	2.62E+00	2.14E+00	2.06E+00	2.34E+00	2.41E+00
8	X/Q (SRC 8)	2.49E-01	2.70E-01	2.93E-01	3.23E-01	3.58E-01	4.04E-01	4.59E-01	5.21E-01	6.07E-01	6.89E-01	7.67E-01	8.54E-01	9.15E-01	9.53E-01	9.84E-01	9.86E-01	9.88E-01	9.61E-01	9.06E-01
9	X/Q (SRC 9)	1.13E+00	1.24E+00	1.35E+00	1.48E+00	1.62E+00	1.79E+00	1.96E+00	2.10E+00	2.21E+00	2.22E+00	2.19E+00	2.19E+00	2.15E+00	2.06E+00	1.93E+00	1.79E+00	1.71E+00	1.63E+00	1.50E+00
10	X/Q (SRC 10)	8.96E-01	8.27E-01	8.01E-01	7.93E-01	7.13E-01	6.60E-01	6.76E-01	6.13E-01	4.74E-01	4.37E-01	4.63E-01	5.28E-01	5.71E-01	5.65E-01	5.50E-01	5.83E-01	6.43E-01	6.54E-01	6.06E-01
11	X/Q (SRC 11)	1.26E+00	1.38E+00	1.50E+00	1.66E+00	1.85E+00	2.10E+00	2.41E+00	2.77E+00	3.26E+00	3.86E+00	4.63E+00	5.86E+00	7.19E+00	7.71E+00	6.77E+00	5.70E+00	5.80E+00	6.21E+00	5.40E+00
12	X/Q (SRC 12)	1.71E+00	1.92E+00	2.20E+00	2.54E+00	2.74E+00	2.72E+00	2.53E+00	2.25E+00	2.01E+00	1.63E+00	1.89E+00	2.00E+00	2.07E+00	2.11E+00	1.76E+00	1.41E+00	1.19E+00	1.08E+00	9.87E-01
13	X/Q (SRC 13)	1.15E+00	1.25E+00	1.37E+00	1.50E+00	1.64E+00	1.81E+00	1.97E+00	2.09E+00	2.19E+00	2.19E+00	2.17E+00	2.18E+00	2.13E+00	2.05E+00	1.91E+00	1.77E+00	1.69E+00	1.62E+00	1.48E+00
14	X/Q (SRC 14)	1.15E+00	1.26E+00	1.38E+00	1.51E+00	1.65E+00	1.82E+00	1.98E+00	2.11E+00	2.21E+00	2.21E+00	2.20E+00	2.20E+00	2.16E+00	2.07E+00	1.93E+00	1.79E+00	1.70E+00	1.63E+00	1.49E+00
15	X/Q (SRC 15)	7.06E-01	7.74E-01	8.44E-01	8.95E-01	9.16E-01	9.14E-01	8.90E-01	8.43E-01	7.98E-01	7.67E-01	7.19E-01	6.48E-01	5.92E-01	5.49E-01	5.24E-01	5.28E-01	5.52E-01	5.76E-01	6.02E-01
16	X/Q (SRC 16)	1.13E+00	1.24E+00	1.35E+00	1.48E+00	1.62E+00	1.79E+00	1.96E+00	2.10E+00	2.21E+00	2.22E+00	2.19E+00	2.19E+00	2.15E+00	2.06E+00	1.93E+00	1.79E+00	1.71E+00	1.63E+00	1.50E+00
17	X/Q (SRC 17)	1.55E+00	1.71E+00	1.89E+00	2.11E+00	2.38E+00	2.78E+00	3.25E+00	3.60E+00	3.74E+00	3.54E+00	3.15E+00	2.75E+00	2.62E+00	2.80E+00	2.84E+00	2.68E+00	2.39E+00	2.04E+00	1.74E+00
18	X/Q (SRC 18)	1.13E+00	1.24E+00	1.35E+00	1.48E+00	1.62E+00	1.79E+00	1.96E+00	2.10E+00	2.21E+00	2.22E+00	2.19E+00	2.19E+00	2.15E+00	2.06E+00	1.93E+00	1.79E+00	1.71E+00	1.63E+00	1.50E+00
19	X/Q (SRC 19)	8.08E-01	8.54E-01	8.99E-01	9.48E-01	9.94E-01	1.05E+00	1.11E+00	1.17E+00	1.24E+00	1.32E+00	1.40E+00	1.50E+00	1.59E+00	1.62E+00	1.54E+00	1.36E+00	1.14E+00	1.30E+00	1.38E+00
20	X/Q (SRC 20)	1.00E+00	1.08E+00	1.17E+00	1.27E+00	1.39E+00	1.53E+00	1.70E+00	1.89E+00	2.18E+00	2.51E+00	2.89E+00	3.15E+00	3.13E+00	2.92E+00	2.60E+00	2.18E+00	2.11E+00	2.33E+00	2.39E+00
21	X/Q (SRC 21)	1.07E+00	1.16E+00	1.27E+00	1.40E+00	1.55E+00	1.75E+00	1.99E+00	2.29E+00	2.66E+00	3.17E+00	3.87E+00	4.81E+00	6.26E+00	8.41E+00	1.29E+01	2.27E+01	5.73E+01	7.86E+01	3.73E+01
22	X/Q (SRC 22)	1.30E+00	1.45E+00	1.63E+00	1.84E+00	1.97E+00	1.96E+00	1.88E+00	1.74E+00	1.60E+00	1.41E+00	1.19E+00	1.25E+00	1.38E+00	1.38E+00	1.44E+00	1.45E+00	1.29E+00	1.08E+00	9.27E-01
23	X/Q (SRC 23)	9.69E-01	1.05E+00	1.13E+00	1.23E+00	1.35E+00	1.52E+00	1.73E+00	1.91E+00	1.93E+00	1.86E+00	1.76E+00	1.61E+00	1.48E+00	1.21E+00	1.15E+00	1.30E+00	1.35E+00	1.35E+00	1.42E+00
24	X/Q (SRC 24)	1.43E+00	1.57E+00	1.71E+00	1.87E+00	2.05E+00	2.30E+00	2.56E+00	2.81E+00	3.06E+00	3.17E+00	3.22E+00	3.41E+00	3.46E+00	3.32E+00	3.05E+00	2.71E+00	2.45E+00	2.25E+00	2.00E+00
25	X/Q (SRC 25)	9.09E-01	9.83E-01	1.06E+00	1.13E+00	1.19E+00	1.25E+00	1.31E+00	1.35E+00	1.38E+00	1.40E+00	1.38E+00	1.32E+00	1.26E+00	1.18E+00	1.12E+00	1.07E+00	1.08E+00	1.13E+00	1.16E+00
26	X/Q (SRC 26)	1.71E+00	1.92E+00	2.16E+00	2.45E+00	2.63E+00	2.65E+00	2.48E+00	2.22E+00	2.02E+00	1.71E+00	1.88E+00	2.00E+00	2.04E+00	2.02E+00	1.73E+00	1.44E+00	1.24E+00	1.12E+00	1.03E+00
27	X/Q (SRC 27)	1.13E+00	1.23E+00	1.34E+00	1.46E+00	1.59E+00	1.77E+00	1.93E+00	2.06E+00	2.17E+00	2.18E+00	2.16E+00	2.16E+00	2.12E+00	2.03E+00	1.91E+00	1.78E+00	1.70E+00	1.63E+00	1.50E+00
28	X/Q (SRC 28)	1.13E+00	1.23E+00	1.34E+00	1.46E+00	1.59E+00	1.77E+00	1.93E+00	2.06E+00	2.17E+00	2.18E+00	2.16E+00	2.16E+00	2.12E+00	2.03E+00	1.91E+00	1.78E+00	1.70E+00	1.63E+00	1.50E+00
29	X/Q (SRC 29)	8.02E-01	8.49E-01	8.93E-01	9.39E-01	9.83E-01	1.04E+00	1.10E+00	1.16E+00	1.23E+00	1.30E+00	1.38E+00	1.48E+00	1.56E+00	1.59E+00	1.52E+00	1.36E+00	1.18E+00	1.29E+00	1.35E+00
30	X/Q (SRC 30)	1.15E+00	1.25E+00	1.37E+00	1.49E+00	1.62E+00	1.79E+00	1.95E+00	2.07E+00	2.17E+00	2.18E+00	2.17E+00	2.17E+00	2.13E+00	2.04E+00	1.92E+00	1.78E+00	1.70E+00	1.62E+00	1.49E+00
31	X/Q (SRC 31)	5.64E-01	5.37E-01	5.35E-01	5.28E-01	5.16E-01	5.13E-01	5.06E-01	4.91E-01	4.76E-01	4.59E-01	4.46E-01	4.33E-01	4.22E-01	4.07E-01	3.93E-01	3.76E-01	3.57E-01	3.38E-01	3.19E-01
32	X/Q (SRC 32)	3.82E+00	3.88E+00	3.65E+00	3.40E+00	3.23E+00	3.09E+00	2.89E+00	2.76E+00	2.53E+00	2.21E+00	1.85E+00	1.87E+00	2.08E+00	2.26E+00	2.31E+00	2.32E+00	2.46E+00	2.67E+00	2.72E+00
33	X/Q (SRC 33)	1.50E+00	1.67E+00	1.82E+00	2.11E+00	2.65E+00	2.86E+00	2.56E+00	2.44E+00	2.15E+00	1.90E+00	1.45E+00	1.74E+00	1.89E+00	1.96E+00	2.15E+00	1.81E+00	1.36E+00	1.11E+00	9.99E-01
34	X/Q (SRC 34)	1.03E+00	8.99E-01	8.36E-01	8.71E-01	7.88E-01	6.87E-01	7.25E-01	6.93E-01	4.70E-01	4.55E-01	4.79E-01	5.67E-01	6.14E-01	6.03E-01	5.76E-01	6.48E-01	7.35E-01	7.19E-01	6.38E-01
35	X/Q (SRC 35)	1.08E+00	1.17E+00	1.26E+00	1.37E+00	1.47E+00	1.61E+00	1.80E+00	2.01E+00	2.27E+00	2.76E+00	3.42E+00	3.36E+00	3.13E+00	2.73E+00	2.49E+00	1.81E+00	2.19E+00	2.36E+00	2.53E+00

ASCON Health Risk

Supplemental HRA

	Rec	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188
1	X/Q (SRC 1)	7.89E-01	7.32E-01	6.92E-01	6.55E-01	6.16E-01	5.83E-01	1.50E+00	1.66E+00	1.85E+00	2.13E+00	2.53E+00	2.79E+00	2.68E+00	2.53E+00	2.26E+00	2.02E+00	1.59E+00	1.78E+00	1.93E+00
2	X/Q (SRC 2)	2.49E+00	2.15E+00	1.91E+00	1.71E+00	1.53E+00	1.37E+00	1.57E+00	1.75E+00	1.96E+00	2.20E+00	2.52E+00	2.93E+00	3.44E+00	4.11E+00	5.00E+00	6.24E+00	8.17E+00	1.04E+01	1.05E+01
3	X/Q (SRC 3)	1.77E+00	1.67E+00	1.37E+00	1.11E+00	9.62E-01	8.82E-01	1.05E+00	1.14E+00	1.24E+00	1.35E+00	1.49E+00	1.64E+00	1.83E+00	2.04E+00	2.32E+00	2.76E+00	3.28E+00	3.36E+00	3.13E+00
4	X/Q (SRC 4)	1.41E+00	1.16E+00	9.44E-01	8.12E-01	7.41E-01	6.98E-01	1.09E+00	1.19E+00	1.30E+00	1.41E+00	1.56E+00	1.72E+00	1.95E+00	2.32E+00	2.66E+00	2.65E+00	2.50E+00	2.29E+00	2.09E+00
5	X/Q (SRC 5)	1.72E+00	1.45E+00	1.27E+00	1.13E+00	1.02E+00	9.26E-01	1.67E+00	1.86E+00	2.07E+00	2.30E+00	2.61E+00	3.01E+00	3.48E+00	4.08E+00	4.81E+00	5.44E+00	5.94E+00	6.59E+00	6.84E+00
6	X/Q (SRC 6)	1.20E+00	1.13E+00	9.46E-01	7.78E-01	6.74E-01	6.21E-01	1.00E+00	1.10E+00	1.20E+00	1.30E+00	1.41E+00	1.50E+00	1.60E+00	1.67E+00	1.73E+00	1.80E+00	1.81E+00	1.80E+00	1.76E+00
7	X/Q (SRC 7)	2.47E+00	2.16E+00	1.73E+00	1.44E+00	1.27E+00	1.16E+00	1.12E+00	1.22E+00	1.33E+00	1.45E+00	1.61E+00	1.80E+00	2.02E+00	2.29E+00	2.63E+00	3.05E+00	3.64E+00	4.43E+00	4.97E+00
8	X/Q (SRC 8)	8.21E-01	7.32E-01	6.60E-01	5.99E-01	5.40E-01	4.93E-01	2.54E-01	2.78E-01	3.02E-01	3.31E-01	3.72E-01	4.26E-01	4.88E-01	5.66E-01	6.72E-01	7.92E-01	9.24E-01	1.05E+00	1.16E+00
9	X/Q (SRC 9)	1.34E+00	1.19E+00	1.06E+00	9.53E-01	8.57E-01	7.77E-01	1.28E+00	1.42E+00	1.57E+00	1.73E+00	1.95E+00	2.21E+00	2.51E+00	2.85E+00	3.18E+00	3.38E+00	3.53E+00	3.64E+00	3.66E+00
10	X/Q (SRC 10)	5.29E-01	4.51E-01	3.92E-01	3.54E-01	3.32E-01	3.21E-01	1.11E+00	1.06E+00	9.78E-01	9.48E-01	9.10E-01	8.18E-01	8.05E-01	7.63E-01	5.89E-01	5.32E-01	5.74E-01	6.56E-01	6.92E-01
11	X/Q (SRC 11)	4.21E+00	3.41E+00	2.90E+00	2.50E+00	2.19E+00	1.91E+00	1.45E+00	1.59E+00	1.75E+00	1.92E+00	2.18E+00	2.51E+00	2.90E+00	3.39E+00	4.09E+00	5.00E+00	6.25E+00	8.09E+00	1.12E+01
12	X/Q (SRC 12)	9.23E-01	8.56E-01	7.99E-01	7.49E-01	7.03E-01	6.61E-01	2.02E+00	2.28E+00	2.60E+00	3.00E+00	3.57E+00	4.04E+00	3.99E+00	3.60E+00	3.19E+00	2.58E+00	3.03E+00	3.11E+00	3.19E+00
13	X/Q (SRC 13)	1.33E+00	1.17E+00	1.05E+00	9.45E-01	8.51E-01	7.72E-01	1.30E+00	1.44E+00	1.59E+00	1.76E+00	1.98E+00	2.25E+00	2.54E+00	2.86E+00	3.17E+00	3.34E+00	3.50E+00	3.60E+00	3.63E+00
14	X/Q (SRC 14)	1.33E+00	1.18E+00	1.06E+00	9.49E-01	8.54E-01	7.74E-01	1.30E+00	1.44E+00	1.60E+00	1.77E+00	2.00E+00	2.27E+00	2.56E+00	2.88E+00	3.20E+00	3.38E+00	3.55E+00	3.66E+00	3.69E+00
15	X/Q (SRC 15)	6.22E-01	6.31E-01	6.35E-01	6.19E-01	5.73E-01	5.10E-01	7.56E-01	8.23E-01	9.06E-01	9.91E-01	1.06E+00	1.09E+00	1.09E+00	1.06E+00	9.96E-01	9.46E-01	8.93E-01	8.06E-01	7.27E-01
16	X/Q (SRC 16)	1.34E+00	1.19E+00	1.06E+00	9.53E-01	8.57E-01	7.77E-01	1.28E+00	1.42E+00	1.57E+00	1.73E+00	1.95E+00	2.21E+00	2.51E+00	2.85E+00	3.18E+00	3.38E+00	3.53E+00	3.64E+00	3.66E+00
17	X/Q (SRC 17)	1.53E+00	1.38E+00	1.26E+00	1.16E+00	1.06E+00	9.81E-01	1.79E+00	1.99E+00	2.23E+00	2.50E+00	2.88E+00	3.41E+00	4.07E+00	4.88E+00	5.65E+00	5.88E+00	5.43E+00	4.68E+00	4.54E+00
18	X/Q (SRC 18)	1.34E+00	1.19E+00	1.06E+00	9.53E-01	8.57E-01	7.77E-01	1.28E+00	1.42E+00	1.57E+00	1.73E+00	1.95E+00	2.21E+00	2.51E+00	2.85E+00	3.18E+00	3.38E+00	3.53E+00	3.64E+00	3.66E+00
19	X/Q (SRC 19)	1.33E+00	1.20E+00	1.09E+00	9.88E-01	8.86E-01	7.89E-01	8.93E-01	9.56E-01	1.02E+00	1.07E+00	1.14E+00	1.22E+00	1.30E+00	1.39E+00	1.49E+00	1.61E+00	1.75E+00	1.93E+00	2.15E+00
20	X/Q (SRC 20)	2.38E+00	2.10E+00	1.76E+00	1.49E+00	1.32E+00	1.20E+00	1.12E+00	1.22E+00	1.32E+00	1.43E+00	1.59E+00	1.78E+00	2.00E+00	2.26E+00	2.60E+00	3.03E+00	3.59E+00	4.26E+00	4.77E+00
21	X/Q (SRC 21)	2.11E+01	1.36E+01	9.74E+00	7.34E+00	5.70E+00	4.56E+00	1.01E+00	1.10E+00	1.20E+00	1.32E+00	1.47E+00	1.65E+00	1.88E+00	2.15E+00	2.50E+00	2.97E+00	3.60E+00	4.51E+00	5.78E+00
22	X/Q (SRC 22)	8.26E-01	7.60E-01	7.15E-01	6.78E-01	6.40E-01	6.07E-01	1.49E+00	1.65E+00	1.86E+00	2.12E+00	2.44E+00	2.67E+00	2.65E+00	2.49E+00	2.27E+00	2.00E+00	1.67E+00	1.80E+00	1.92E+00
23	X/Q (SRC 23)	1.34E+00	1.15E+00	9.70E-01	8.51E-01	7.73E-01	7.22E-01	1.08E+00	1.18E+00	1.29E+00	1.41E+00	1.55E+00	1.73E+00	1.96E+00	2.26E+00	2.52E+00	2.58E+00	2.47E+00	2.28E+00	2.05E+00
24	X/Q (SRC 24)	1.74E+00	1.49E+00	1.31E+00	1.17E+00	1.05E+00	9.50E-01	1.66E+00	1.85E+00	2.06E+00	2.26E+00	2.57E+00	2.97E+00	3.42E+00	3.98E+00	4.65E+00	5.22E+00	5.69E+00	6.26E+00	6.47E+00
25	X/Q (SRC 25)	1.16E+00	1.08E+00	9.38E-01	8.03E-01	7.06E-01	6.47E-01	1.00E+00	1.09E+00	1.19E+00	1.29E+00	1.39E+00	1.49E+00	1.58E+00	1.65E+00	1.72E+00	1.77E+00	1.79E+00	1.78E+00	1.74E+00
26	X/Q (SRC 26)	9.59E-01	8.90E-01	8.30E-01	7.76E-01	7.25E-01	6.79E-01	2.00E+00	2.26E+00	2.57E+00	2.92E+00	3.43E+00	3.86E+00	3.87E+00	3.50E+00	3.15E+00	2.68E+00	2.98E+00	3.07E+00	3.06E+00
27	X/Q (SRC 27)	1.35E+00	1.20E+00	1.08E+00	9.74E-01	8.79E-01	7.98E-01	1.28E+00	1.41E+00	1.56E+00	1.71E+00	1.92E+00	2.18E+00	2.47E+00	2.78E+00	3.09E+00	3.28E+00	3.43E+00	3.52E+00	3.54E+00
28	X/Q (SRC 28)	1.35E+00	1.20E+00	1.08E+00	9.74E-01	8.79E-01	7.98E-01	1.28E+00	1.41E+00	1.56E+00	1.71E+00	1.92E+00	2.18E+00	2.47E+00	2.78E+00	3.09E+00	3.28E+00	3.43E+00	3.52E+00	3.54E+00
29	X/Q (SRC 29)	1.30E+00	1.19E+00	1.09E+00	9.90E-01	8.92E-01	8.01E-01	8.87E-01	9.49E-01	1.01E+00	1.06E+00	1.13E+00	1.21E+00	1.29E+00	1.38E+00	1.48E+00	1.59E+00	1.73E+00	1.90E+00	2.11E+00
30	X/Q (SRC 30)	1.34E+00	1.19E+00	1.07E+00	9.70E-01	8.75E-01	7.96E-01	1.30E+00	1.44E+00	1.59E+00	1.74E+00	1.96E+00	2.23E+00	2.51E+00	2.81E+00	3.11E+00	3.29E+00	3.44E+00	3.54E+00	3.56E+00
31	X/Q (SRC 31)	3.00E-01	2.82E-01	2.67E-01	2.55E-01	2.45E-01	2.36E-01	7.00E-01	6.72E-01	6.77E-01	6.59E-01	6.51E-01	6.42E-01	6.17E-01	5.89E-01	5.64E-01	5.41E-01	5.22E-01	5.05E-01	4.87E-01
32	X/Q (SRC 32)	2.51E+00	2.15E+00	1.81E+00	1.55E+00	1.39E+00	1.31E+00	4.06E+00	4.52E+00	4.59E+00	4.33E+00	4.08E+00	3.86E+00	3.63E+00	3.44E+00	3.12E+00	2.75E+00	2.34E+00	2.33E+00	2.60E+00
33	X/Q (SRC 33)	9.40E-01	8.69E-01	7.97E-01	7.40E-01	6.99E-01	6.66E-01	1.78E+00	1.96E+00	2.21E+00	2.45E+00	2.89E+00	3.74E+00	4.09E+00	3.73E+00	3.33E+00	2.99E+00	2.24E+00	2.75E+00	2.87E+00
34	X/Q (SRC 34)	5.33E-01	4.40E-01	3.80E-01	3.48E-01	3.33E-01	3.27E-01	1.26E+00	1.22E+00	1.06E+00	1.02E+00	1.03E+00	8.81E-01	8.50E-01	8.76E-01	5.97E-01	5.56E-01	6.00E-01	7.16E-01	7.50E-01
35	X/Q (SRC 35)	2.56E+00	1.94E+00	1.47E+00	1.28E+00	1.18E+00	1.08E+00	1.16E+00	1.28E+00	1.41E+00	1.56E+00	1.74E+00	1.94E+00	2.16E+00	2.43E+00	2.81E+00	3.26E+00	3.97E+00	5.10E+00	5.10E+00

ASCON Health Risk

Supplemental HRA

	Rec	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
1	X/Q (SRC 1)	1.95E+00	2.09E+00	1.84E+00	1.46E+00	1.20E+00	1.07E+00	9.84E-01	9.05E-01	8.41E-01	7.92E-01	7.42E-01	7.01E-01	1.75E+00	1.96E+00	2.21E+00	2.50E+00	2.94E+00	3.59E+00	4.02E+00
2	X/Q (SRC 2)	8.85E+00	8.81E+00	9.02E+00	7.68E+00	5.78E+00	4.56E+00	3.77E+00	3.13E+00	2.65E+00	2.29E+00	1.96E+00	1.70E+00	1.83E+00	2.06E+00	2.33E+00	2.66E+00	3.09E+00	3.64E+00	4.36E+00
3	X/Q (SRC 3)	2.77E+00	2.53E+00	2.00E+00	2.28E+00	2.41E+00	2.51E+00	2.42E+00	1.93E+00	1.54E+00	1.35E+00	1.22E+00	1.12E+00	1.16E+00	1.27E+00	1.40E+00	1.54E+00	1.72E+00	1.93E+00	2.17E+00
4	X/Q (SRC 4)	1.64E+00	1.56E+00	1.84E+00	1.86E+00	1.98E+00	1.96E+00	1.60E+00	1.26E+00	1.08E+00	9.95E-01	9.22E-01	8.60E-01	1.23E+00	1.35E+00	1.49E+00	1.64E+00	1.83E+00	2.05E+00	2.31E+00
5	X/Q (SRC 5)	6.40E+00	5.69E+00	4.85E+00	4.03E+00	3.54E+00	2.97E+00	2.37E+00	1.96E+00	1.68E+00	1.46E+00	1.28E+00	1.13E+00	1.94E+00	2.21E+00	2.52E+00	2.87E+00	3.36E+00	3.99E+00	4.84E+00
6	X/Q (SRC 6)	1.65E+00	1.56E+00	1.47E+00	1.50E+00	1.58E+00	1.62E+00	1.55E+00	1.27E+00	1.02E+00	8.97E-01	8.19E-01	7.66E-01	1.12E+00	1.22E+00	1.35E+00	1.49E+00	1.65E+00	1.80E+00	1.94E+00
7	X/Q (SRC 7)	4.81E+00	4.29E+00	3.56E+00	3.39E+00	3.78E+00	3.88E+00	3.42E+00	2.65E+00	2.17E+00	1.91E+00	1.70E+00	1.53E+00	1.26E+00	1.37E+00	1.51E+00	1.66E+00	1.86E+00	2.10E+00	2.39E+00
8	X/Q (SRC 8)	1.21E+00	1.27E+00	1.30E+00	1.27E+00	1.23E+00	1.13E+00	1.01E+00	8.79E-01	7.82E-01	7.12E-01	6.39E-01	5.82E-01	2.59E-01	2.82E-01	3.09E-01	3.40E-01	3.85E-01	4.41E-01	5.10E-01
9	X/Q (SRC 9)	3.52E+00	3.29E+00	2.99E+00	2.65E+00	2.42E+00	2.10E+00	1.79E+00	1.53E+00	1.33E+00	1.18E+00	1.04E+00	9.31E-01	1.47E+00	1.64E+00	1.84E+00	2.08E+00	2.40E+00	2.79E+00	3.30E+00
10	X/Q (SRC 10)	6.72E-01	6.82E-01	7.53E-01	7.82E-01	7.31E-01	6.32E-01	5.32E-01	4.56E-01	4.12E-01	3.90E-01	3.77E-01	3.68E-01	1.27E+00	1.34E+00	1.27E+00	1.18E+00	1.17E+00	1.06E+00	9.86E-01
11	X/Q (SRC 11)	1.52E+01	1.58E+01	1.43E+01	1.36E+01	1.22E+01	9.19E+00	7.09E+00	5.57E+00	4.45E+00	3.62E+00	2.97E+00	2.47E+00	1.64E+00	1.82E+00	2.04E+00	2.28E+00	2.62E+00	3.04E+00	3.57E+00
12	X/Q (SRC 12)	2.70E+00	2.09E+00	1.75E+00	1.54E+00	1.40E+00	1.28E+00	1.17E+00	1.07E+00	9.81E-01	9.05E-01	8.34E-01	7.70E-01	2.41E+00	2.76E+00	3.20E+00	3.72E+00	4.58E+00	5.66E+00	6.58E+00
13	X/Q (SRC 13)	3.48E+00	3.24E+00	2.94E+00	2.62E+00	2.39E+00	2.07E+00	1.77E+00	1.51E+00	1.32E+00	1.17E+00	1.03E+00	9.25E-01	1.49E+00	1.66E+00	1.87E+00	2.11E+00	2.44E+00	2.85E+00	3.35E+00
14	X/Q (SRC 14)	3.54E+00	3.29E+00	2.98E+00	2.65E+00	2.41E+00	2.09E+00	1.78E+00	1.52E+00	1.32E+00	1.17E+00	1.04E+00	9.28E-01	1.50E+00	1.67E+00	1.89E+00	2.13E+00	2.46E+00	2.87E+00	3.39E+00
15	X/Q (SRC 15)	6.78E-01	6.53E-01	6.50E-01	6.78E-01	7.15E-01	7.48E-01	7.62E-01	7.54E-01	7.33E-01	6.87E-01	6.09E-01	5.33E-01	8.33E-01	8.96E-01	9.78E-01	1.08E+00	1.19E+00	1.28E+00	1.32E+00
16	X/Q (SRC 16)	3.52E+00	3.29E+00	2.99E+00	2.65E+00	2.42E+00	2.10E+00	1.79E+00	1.53E+00	1.33E+00	1.18E+00	1.04E+00	9.31E-01	1.47E+00	1.64E+00	1.84E+00	2.08E+00	2.40E+00	2.79E+00	3.30E+00
17	X/Q (SRC 17)	4.69E+00	4.44E+00	3.88E+00	3.20E+00	2.70E+00	2.34E+00	2.05E+00	1.81E+00	1.61E+00	1.45E+00	1.30E+00	1.18E+00	2.09E+00	2.35E+00	2.68E+00	3.04E+00	3.60E+00	4.30E+00	5.23E+00
18	X/Q (SRC 18)	3.52E+00	3.29E+00	2.99E+00	2.65E+00	2.42E+00	2.10E+00	1.79E+00	1.53E+00	1.33E+00	1.18E+00	1.04E+00	9.31E-01	1.47E+00	1.64E+00	1.84E+00	2.08E+00	2.40E+00	2.79E+00	3.30E+00
19	X/Q (SRC 19)	2.38E+00	2.58E+00	2.42E+00	1.96E+00	2.25E+00	2.18E+00	1.88E+00	1.61E+00	1.41E+00	1.25E+00	1.08E+00	9.45E-01	9.87E-01	1.07E+00	1.15E+00	1.23E+00	1.33E+00	1.43E+00	1.54E+00
20	X/Q (SRC 20)	4.68E+00	4.21E+00	3.58E+00	3.41E+00	3.72E+00	3.75E+00	3.32E+00	2.68E+00	2.25E+00	1.98E+00	1.77E+00	1.59E+00	1.27E+00	1.39E+00	1.52E+00	1.65E+00	1.85E+00	2.10E+00	2.38E+00
21	X/Q (SRC 21)	7.83E+00	1.22E+01	2.14E+01	5.76E+01	8.11E+01	3.62E+01	2.07E+01	1.35E+01	9.68E+00	7.39E+00	5.76E+00	4.64E+00	9.35E-01	1.02E+00	1.11E+00	1.22E+00	1.36E+00	1.52E+00	1.72E+00
22	X/Q (SRC 22)	1.94E+00	2.00E+00	1.79E+00	1.48E+00	1.26E+00	1.11E+00	1.02E+00	9.37E-01	8.74E-01	8.24E-01	7.70E-01	7.23E-01	1.73E+00	1.94E+00	2.20E+00	2.49E+00	2.92E+00	3.46E+00	3.84E+00
23	X/Q (SRC 23)	1.69E+00	1.62E+00	1.82E+00	1.87E+00	1.93E+00	1.86E+00	1.58E+00	1.29E+00	1.12E+00	1.03E+00	9.53E-01	8.91E-01	1.21E+00	1.33E+00	1.47E+00	1.63E+00	1.81E+00	2.03E+00	2.30E+00
24	X/Q (SRC 24)	6.09E+00	5.51E+00	4.76E+00	4.00E+00	3.52E+00	2.97E+00	2.42E+00	2.00E+00	1.71E+00	1.50E+00	1.30E+00	1.15E+00	1.91E+00	2.17E+00	2.47E+00	2.80E+00	3.29E+00	3.90E+00	4.71E+00
25	X/Q (SRC 25)	1.64E+00	1.57E+00	1.49E+00	1.50E+00	1.56E+00	1.57E+00	1.49E+00	1.26E+00	1.06E+00	9.37E-01	8.51E-01	7.93E-01	1.12E+00	1.22E+00	1.34E+00	1.48E+00	1.63E+00	1.77E+00	1.92E+00
26	X/Q (SRC 26)	2.66E+00	2.13E+00	1.82E+00	1.60E+00	1.45E+00	1.33E+00	1.21E+00	1.10E+00	1.01E+00	9.27E-01	8.51E-01	7.84E-01	2.39E+00	2.73E+00	3.16E+00	3.65E+00	4.45E+00	5.42E+00	6.22E+00
27	X/Q (SRC 27)	3.40E+00	3.20E+00	2.93E+00	2.62E+00	2.40E+00	2.10E+00	1.81E+00	1.55E+00	1.36E+00	1.20E+00	1.07E+00	9.57E-01	1.46E+00	1.63E+00	1.83E+00	2.04E+00	2.36E+00	2.74E+00	3.22E+00
28	X/Q (SRC 28)	3.40E+00	3.20E+00	2.93E+00	2.62E+00	2.40E+00	2.10E+00	1.81E+00	1.55E+00	1.36E+00	1.20E+00	1.07E+00	9.57E-01	1.46E+00	1.63E+00	1.83E+00	2.04E+00	2.36E+00	2.74E+00	3.22E+00
29	X/Q (SRC 29)	2.31E+00	2.49E+00	2.34E+00	1.97E+00	2.18E+00	2.12E+00	1.86E+00	1.61E+00	1.41E+00	1.26E+00	1.10E+00	9.66E-01	9.81E-01	1.06E+00	1.14E+00	1.22E+00	1.32E+00	1.42E+00	1.52E+00
30	X/Q (SRC 30)	3.42E+00	3.21E+00	2.93E+00	2.62E+00	2.39E+00	2.09E+00	1.80E+00	1.54E+00	1.35E+00	1.20E+00	1.06E+00	9.52E-01	1.49E+00	1.66E+00	1.87E+00	2.09E+00	2.42E+00	2.82E+00	3.31E+00
31	X/Q (SRC 31)	4.67E-01	4.47E-01	4.23E-01	4.00E-01	3.76E-01	3.53E-01	3.30E-01	3.09E-01	2.93E-01	2.82E-01	2.70E-01	2.61E-01	9.03E-01	8.74E-01	8.87E-01	8.64E-01	8.46E-01	8.09E-01	7.60E-01
32	X/Q (SRC 32)	2.79E+00	2.83E+00	2.95E+00	3.15E+00	3.27E+00	3.05E+00	2.60E+00	2.14E+00	1.82E+00	1.64E+00	1.55E+00	1.51E+00	4.22E+00	4.88E+00	5.46E+00	5.57E+00	5.35E+00	5.02E+00	4.65E+00
33	X/Q (SRC 33)	3.18E+00	2.71E+00	1.97E+00	1.59E+00	1.44E+00	1.32E+00	1.18E+00	1.08E+00	9.98E-01	9.34E-01	8.69E-01	8.08E-01	2.11E+00	2.39E+00	2.71E+00	3.08E+00	3.63E+00	4.38E+00	5.73E+00
34	X/Q (SRC 34)	7.14E-01	7.44E-01	8.69E-01	8.78E-01	7.77E-01	6.37E-01	5.19E-01	4.45E-01	4.09E-01	3.96E-01	3.89E-01	3.83E-01	1.36E+00	1.54E+00	1.48E+00	1.29E+00	1.30E+00	1.20E+00	1.05E+00
35	X/Q (SRC 35)	4.64E+00	4.04E+00	3.01E+00	3.64E+00	3.84E+00	4.06E+00	3.03E+00	2.25E+00	1.94E+00	1.74E+00	1.54E+00	1.39E+00	1.28E+00	1.40E+00	1.55E+00	1.72E+00	1.96E+00	2.25E+00	2.59E+00

ASCON Health Risk

Supplemental HRA

	Rec	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226
1	X/Q (SRC 1)	3.86E+00	3.52E+00	3.09E+00	2.45E+00	2.80E+00	2.90E+00	3.04E+00	2.74E+00	2.12E+00	1.74E+00	1.55E+00	1.40E+00	1.26E+00	1.15E+00	1.06E+00	9.81E-01	9.06E-01	8.39E-01	2.05E+00
2	X/Q (SRC 2)	5.34E+00	6.74E+00	8.70E+00	1.21E+01	1.84E+01	2.56E+01	2.62E+01	2.55E+01	2.18E+01	1.55E+01	1.09E+01	7.88E+00	5.87E+00	4.53E+00	3.59E+00	2.93E+00	2.42E+00	2.04E+00	2.05E+00
3	X/Q (SRC 3)	2.47E+00	2.83E+00	3.27E+00	3.98E+00	4.92E+00	5.00E+00	4.57E+00	4.04E+00	3.24E+00	3.78E+00	3.94E+00	3.85E+00	3.03E+00	2.37E+00	2.03E+00	1.82E+00	1.63E+00	1.47E+00	1.32E+00
4	X/Q (SRC 4)	2.66E+00	3.19E+00	3.73E+00	3.75E+00	3.54E+00	3.09E+00	2.52E+00	2.36E+00	2.75E+00	2.87E+00	2.94E+00	2.37E+00	1.83E+00	1.56E+00	1.40E+00	1.28E+00	1.17E+00	1.08E+00	1.38E+00
5	X/Q (SRC 5)	6.08E+00	8.19E+00	1.13E+01	1.55E+01	1.90E+01	1.91E+01	1.72E+01	1.46E+01	1.14E+01	8.24E+00	6.56E+00	4.80E+00	3.60E+00	2.81E+00	2.26E+00	1.87E+00	1.57E+00	1.35E+00	2.18E+00
6	X/Q (SRC 6)	2.08E+00	2.20E+00	2.31E+00	2.39E+00	2.46E+00	2.53E+00	2.52E+00	2.36E+00	2.24E+00	2.28E+00	2.38E+00	2.32E+00	1.89E+00	1.48E+00	1.27E+00	1.16E+00	1.05E+00	9.68E-01	1.27E+00
7	X/Q (SRC 7)	2.75E+00	3.23E+00	3.84E+00	4.65E+00	5.79E+00	7.41E+00	8.62E+00	8.36E+00	7.04E+00	6.51E+00	7.09E+00	6.35E+00	4.80E+00	3.81E+00	3.20E+00	2.75E+00	2.37E+00	2.05E+00	1.44E+00
8	X/Q (SRC 8)	5.98E-01	7.24E-01	8.73E-01	1.06E+00	1.28E+00	1.44E+00	1.54E+00	1.60E+00	1.64E+00	1.63E+00	1.57E+00	1.42E+00	1.24E+00	1.10E+00	9.70E-01	8.72E-01	7.80E-01	7.05E-01	2.62E-01
9	X/Q (SRC 9)	4.01E+00	5.13E+00	6.36E+00	7.51E+00	8.15E+00	8.24E+00	8.07E+00	7.75E+00	7.00E+00	5.41E+00	4.24E+00	3.25E+00	2.54E+00	2.07E+00	1.73E+00	1.47E+00	1.28E+00	1.12E+00	1.67E+00
10	X/Q (SRC 10)	9.62E-01	7.53E-01	6.65E-01	7.29E-01	8.35E-01	8.50E-01	8.31E-01	8.96E-01	9.59E-01	8.99E-01	7.72E-01	6.42E-01	5.48E-01	4.96E-01	4.68E-01	4.52E-01	4.37E-01	4.21E-01	1.37E+00
11	X/Q (SRC 11)	4.26E+00	5.30E+00	6.74E+00	8.83E+00	1.22E+01	1.86E+01	3.22E+01	5.69E+01	7.16E+01	4.88E+01	3.35E+01	2.10E+01	1.35E+01	9.10E+00	6.53E+00	4.91E+00	3.83E+00	3.07E+00	1.72E+00
12	X/Q (SRC 12)	6.49E+00	5.80E+00	4.87E+00	5.58E+00	5.50E+00	4.68E+00	3.58E+00	2.92E+00	2.50E+00	2.09E+00	1.87E+00	1.68E+00	1.49E+00	1.33E+00	1.19E+00	1.07E+00	9.64E-01	8.75E-01	2.90E+00
13	X/Q (SRC 13)	4.04E+00	5.09E+00	6.24E+00	7.38E+00	8.00E+00	8.09E+00	7.92E+00	7.60E+00	6.87E+00	5.31E+00	4.15E+00	3.19E+00	2.50E+00	2.04E+00	1.71E+00	1.46E+00	1.26E+00	1.11E+00	1.69E+00
14	X/Q (SRC 14)	4.08E+00	5.16E+00	6.38E+00	7.59E+00	8.25E+00	8.34E+00	8.16E+00	7.84E+00	7.08E+00	5.45E+00	4.21E+00	3.22E+00	2.52E+00	2.05E+00	1.71E+00	1.46E+00	1.27E+00	1.12E+00	1.70E+00
15	X/Q (SRC 15)	1.33E+00	1.28E+00	1.20E+00	1.13E+00	1.03E+00	9.20E-01	8.60E-01	8.28E-01	8.19E-01	8.56E-01	9.14E-01	9.44E-01	9.34E-01	9.02E-01	8.40E-01	7.49E-01	6.49E-01	5.72E-01	9.33E-01
16	X/Q (SRC 16)	4.01E+00	5.13E+00	6.36E+00	7.51E+00	8.15E+00	8.24E+00	8.07E+00	7.75E+00	7.00E+00	5.41E+00	4.24E+00	3.25E+00	2.54E+00	2.07E+00	1.73E+00	1.47E+00	1.28E+00	1.12E+00	1.67E+00
17	X/Q (SRC 17)	6.56E+00	8.51E+00	1.04E+01	1.12E+01	1.01E+01	9.57E+00	9.05E+00	7.68E+00	6.15E+00	4.71E+00	3.91E+00	3.33E+00	2.80E+00	2.38E+00	2.05E+00	1.79E+00	1.56E+00	1.38E+00	2.43E+00
18	X/Q (SRC 18)	4.01E+00	5.13E+00	6.36E+00	7.51E+00	8.15E+00	8.24E+00	8.07E+00	7.75E+00	7.00E+00	5.41E+00	4.24E+00	3.25E+00	2.54E+00	2.07E+00	1.73E+00	1.47E+00	1.28E+00	1.12E+00	1.67E+00
19	X/Q (SRC 19)	1.66E+00	1.81E+00	1.99E+00	2.23E+00	2.53E+00	2.95E+00	3.56E+00	4.58E+00	6.10E+00	5.45E+00	5.46E+00	4.08E+00	3.04E+00	2.39E+00	1.94E+00	1.62E+00	1.35E+00	1.15E+00	1.09E+00
20	X/Q (SRC 20)	2.73E+00	3.19E+00	3.78E+00	4.57E+00	5.66E+00	7.07E+00	8.14E+00	7.98E+00	6.87E+00	6.37E+00	6.79E+00	6.13E+00	4.82E+00	3.91E+00	3.29E+00	2.83E+00	2.43E+00	2.10E+00	1.43E+00
21	X/Q (SRC 21)	1.97E+00	2.29E+00	2.68E+00	3.25E+00	4.08E+00	5.20E+00	7.08E+00	1.07E+01	1.93E+01	5.87E+01	8.22E+01	3.46E+01	1.98E+01	1.32E+01	9.47E+00	7.22E+00	5.67E+00	4.59E+00	8.52E-01
22	X/Q (SRC 22)	3.79E+00	3.49E+00	3.03E+00	2.54E+00	2.77E+00	2.87E+00	2.92E+00	2.64E+00	2.16E+00	1.82E+00	1.61E+00	1.45E+00	1.31E+00	1.20E+00	1.10E+00	1.01E+00	9.27E-01	8.55E-01	2.03E+00
23	X/Q (SRC 23)	2.66E+00	3.11E+00	3.52E+00	3.65E+00	3.45E+00	3.04E+00	2.54E+00	2.40E+00	2.70E+00	2.84E+00	2.79E+00	2.33E+00	1.88E+00	1.62E+00	1.45E+00	1.33E+00	1.22E+00	1.12E+00	1.39E+00
24	X/Q (SRC 24)	5.87E+00	7.76E+00	1.03E+01	1.35E+01	1.64E+01	1.66E+01	1.52E+01	1.33E+01	1.07E+01	7.90E+00	6.37E+00	4.80E+00	3.62E+00	2.84E+00	2.29E+00	1.90E+00	1.60E+00	1.37E+00	2.12E+00
25	X/Q (SRC 25)	2.05E+00	2.17E+00	2.27E+00	2.36E+00	2.43E+00	2.48E+00	2.46E+00	2.33E+00	2.22E+00	2.26E+00	2.32E+00	2.22E+00	1.86E+00	1.53E+00	1.32E+00	1.20E+00	1.09E+00	1.00E+00	1.27E+00
26	X/Q (SRC 26)	6.19E+00	5.62E+00	4.92E+00	5.41E+00	5.28E+00	4.57E+00	3.65E+00	3.02E+00	2.59E+00	2.12E+00	1.93E+00	1.73E+00	1.53E+00	1.36E+00	1.21E+00	1.09E+00	9.80E-01	8.90E-01	2.88E+00
27	X/Q (SRC 27)	3.88E+00	4.86E+00	5.82E+00	6.78E+00	7.37E+00	7.43E+00	7.28E+00	6.98E+00	6.32E+00	5.06E+00	4.12E+00	3.23E+00	2.56E+00	2.09E+00	1.75E+00	1.50E+00	1.31E+00	1.15E+00	1.64E+00
28	X/Q (SRC 28)	3.88E+00	4.86E+00	5.82E+00	6.78E+00	7.37E+00	7.43E+00	7.28E+00	6.98E+00	6.32E+00	5.06E+00	4.12E+00	3.23E+00	2.56E+00	2.09E+00	1.75E+00	1.50E+00	1.31E+00	1.15E+00	1.64E+00
29	X/Q (SRC 29)	1.65E+00	1.80E+00	1.97E+00	2.20E+00	2.51E+00	2.89E+00	3.43E+00	4.29E+00	5.42E+00	4.80E+00	4.99E+00	3.93E+00	2.99E+00	2.38E+00	1.95E+00	1.63E+00	1.38E+00	1.18E+00	1.08E+00
30	X/Q (SRC 30)	3.95E+00	4.90E+00	5.84E+00	6.83E+00	7.44E+00	7.50E+00	7.34E+00	7.04E+00	6.37E+00	5.08E+00	4.10E+00	3.21E+00	2.53E+00	2.08E+00	1.74E+00	1.49E+00	1.30E+00	1.14E+00	1.68E+00
31	X/Q (SRC 31)	7.16E-01	6.84E-01	6.49E-01	6.22E-01	5.99E-01	5.71E-01	5.42E-01	5.12E-01	4.81E-01	4.52E-01	4.23E-01	3.93E-01	3.66E-01	3.45E-01	3.27E-01	3.14E-01	3.01E-01	2.90E-01	1.23E+00
32	X/Q (SRC 32)	4.42E+00	3.99E+00	3.50E+00	3.04E+00	3.01E+00	3.32E+00	3.52E+00	3.65E+00	3.87E+00	3.99E+00	3.79E+00	3.22E+00	2.63E+00	2.22E+00	2.00E+00	1.90E+00	1.84E+00	1.77E+00	4.63E+00
33	X/Q (SRC 33)	6.46E+00	5.97E+00	5.22E+00	4.02E+00	4.83E+00	5.19E+00	4.60E+00	3.22E+00	2.61E+00	2.22E+00	1.96E+00	1.76E+00	1.58E+00	1.42E+00	1.28E+00	1.15E+00	1.04E+00	9.43E-01	2.42E+00
34	X/Q (SRC 34)	1.11E+00	7.88E-01	7.00E-01	7.77E-01	9.21E-01	9.27E-01	8.96E-01	1.04E+00	1.10E+00	9.69E-01	7.83E-01	6.28E-01	5.39E-01	4.99E-01	4.83E-01	4.72E-01	4.56E-01	4.33E-01	1.36E+00
35	X/Q (SRC 35)	3.00E+00	3.54E+00	4.21E+00	5.11E+00	6.45E+00	8.69E+00	8.96E+00	7.81E+00	6.04E+00	6.92E+00	7.37E+00	5.52E+00	4.02E+00	3.34E+00	2.83E+00	2.45E+00	2.14E+00	1.87E+00	1.51E+00

ASCON Health Risk

Supplemental HRA

	Rec	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245
1	X/Q (SRC 1)	2.33E+00	2.67E+00	3.10E+00	3.64E+00	4.39E+00	5.54E+00	6.45E+00	6.10E+00	2.15E+00	1.88E+00	1.67E+00	1.49E+00	1.33E+00	1.19E+00	1.08E+00	9.75E-01	2.43E+00	2.79E+00	3.27E+00
2	X/Q (SRC 2)	2.32E+00	2.66E+00	3.10E+00	3.65E+00	4.40E+00	5.42E+00	6.90E+00	9.03E+00	2.10E+01	1.26E+01	8.50E+00	6.15E+00	4.64E+00	3.64E+00	2.94E+00	2.43E+00	2.03E+00	2.30E+00	2.63E+00
3	X/Q (SRC 3)	1.44E+00	1.59E+00	1.78E+00	1.99E+00	2.26E+00	2.59E+00	3.00E+00	3.50E+00	7.20E+00	5.50E+00	4.18E+00	3.49E+00	2.98E+00	2.57E+00	2.23E+00	1.95E+00	1.52E+00	1.67E+00	1.86E+00
4	X/Q (SRC 4)	1.53E+00	1.70E+00	1.91E+00	2.16E+00	2.46E+00	2.83E+00	3.29E+00	3.83E+00	3.91E+00	2.92E+00	2.46E+00	2.17E+00	1.92E+00	1.71E+00	1.54E+00	1.39E+00	1.59E+00	1.76E+00	1.97E+00
5	X/Q (SRC 5)	2.51E+00	2.93E+00	3.44E+00	4.12E+00	5.05E+00	6.45E+00	8.84E+00	1.42E+01	1.87E+01	9.09E+00	5.61E+00	3.93E+00	2.95E+00	2.33E+00	1.90E+00	1.60E+00	2.28E+00	2.63E+00	3.08E+00
6	X/Q (SRC 6)	1.39E+00	1.53E+00	1.71E+00	1.93E+00	2.16E+00	2.39E+00	2.63E+00	2.83E+00	4.05E+00	3.24E+00	2.45E+00	2.06E+00	1.79E+00	1.57E+00	1.39E+00	1.24E+00	1.45E+00	1.59E+00	1.77E+00
7	X/Q (SRC 7)	1.59E+00	1.76E+00	1.96E+00	2.21E+00	2.51E+00	2.90E+00	3.39E+00	4.08E+00	1.64E+01	1.15E+01	8.34E+00	6.37E+00	4.96E+00	3.95E+00	3.21E+00	2.65E+00	1.61E+00	1.79E+00	2.00E+00
8	X/Q (SRC 8)	2.86E-01	3.16E-01	3.50E-01	3.94E-01	4.51E-01	5.26E-01	6.23E-01	7.67E-01	2.03E+00	1.78E+00	1.59E+00	1.42E+00	1.25E+00	1.10E+00	9.79E-01	8.72E-01	2.63E-01	2.89E-01	3.19E-01
9	X/Q (SRC 9)	1.88E+00	2.15E+00	2.48E+00	2.91E+00	3.48E+00	4.31E+00	5.65E+00	8.95E+00	9.74E+00	5.33E+00	3.70E+00	2.82E+00	2.24E+00	1.85E+00	1.57E+00	1.36E+00	1.83E+00	2.08E+00	2.38E+00
10	X/Q (SRC 10)	1.57E+00	1.67E+00	1.58E+00	1.50E+00	1.43E+00	1.27E+00	1.24E+00	1.00E+00	8.00E-01	6.79E-01	6.15E-01	5.81E-01	5.55E-01	5.30E-01	5.05E-01	4.81E-01	1.49E+00	1.72E+00	2.01E+00
11	X/Q (SRC 11)	1.92E+00	2.16E+00	2.46E+00	2.84E+00	3.32E+00	3.95E+00	4.80E+00	6.08E+00	1.22E+02	4.40E+01	2.22E+01	1.34E+01	8.94E+00	6.40E+00	4.82E+00	3.74E+00	1.62E+00	1.80E+00	2.01E+00
12	X/Q (SRC 12)	3.40E+00	4.05E+00	4.91E+00	6.09E+00	7.89E+00	1.05E+01	1.34E+01	1.47E+01	2.52E+00	2.16E+00	1.84E+00	1.60E+00	1.39E+00	1.23E+00	1.09E+00	9.82E-01	3.54E+00	4.26E+00	5.19E+00
13	X/Q (SRC 13)	1.91E+00	2.19E+00	2.53E+00	2.97E+00	3.57E+00	4.43E+00	5.79E+00	8.95E+00	9.40E+00	5.20E+00	3.63E+00	2.77E+00	2.21E+00	1.83E+00	1.55E+00	1.34E+00	1.87E+00	2.13E+00	2.44E+00
14	X/Q (SRC 14)	1.92E+00	2.20E+00	2.55E+00	3.00E+00	3.60E+00	4.48E+00	5.86E+00	9.05E+00	9.46E+00	5.23E+00	3.65E+00	2.78E+00	2.22E+00	1.83E+00	1.56E+00	1.35E+00	1.88E+00	2.14E+00	2.46E+00
15	X/Q (SRC 15)	1.00E+00	1.08E+00	1.19E+00	1.33E+00	1.48E+00	1.59E+00	1.66E+00	1.66E+00	1.20E+00	1.19E+00	1.14E+00	1.07E+00	9.48E-01	8.17E-01	7.16E-01	6.51E-01	1.05E+00	1.13E+00	1.23E+00
16	X/Q (SRC 16)	1.88E+00	2.15E+00	2.48E+00	2.91E+00	3.48E+00	4.31E+00	5.65E+00	8.95E+00	9.74E+00	5.33E+00	3.70E+00	2.82E+00	2.24E+00	1.85E+00	1.57E+00	1.36E+00	1.83E+00	2.08E+00	2.38E+00
17	X/Q (SRC 17)	2.79E+00	3.23E+00	3.79E+00	4.54E+00	5.56E+00	7.03E+00	9.27E+00	1.32E+01	6.01E+00	4.67E+00	3.73E+00	3.05E+00	2.54E+00	2.14E+00	1.84E+00	1.60E+00	2.70E+00	3.13E+00	3.68E+00
18	X/Q (SRC 18)	1.88E+00	2.15E+00	2.48E+00	2.91E+00	3.48E+00	4.31E+00	5.65E+00	8.95E+00	9.74E+00	5.33E+00	3.70E+00	2.82E+00	2.24E+00	1.85E+00	1.57E+00	1.36E+00	1.83E+00	2.08E+00	2.38E+00
19	X/Q (SRC 19)	1.19E+00	1.30E+00	1.42E+00	1.54E+00	1.68E+00	1.82E+00	2.00E+00	2.21E+00	2.37E+01	8.91E+00	5.21E+00	3.62E+00	2.71E+00	2.11E+00	1.71E+00	1.43E+00	1.19E+00	1.31E+00	1.44E+00
20	X/Q (SRC 20)	1.58E+00	1.75E+00	1.95E+00	2.20E+00	2.50E+00	2.89E+00	3.37E+00	4.04E+00	1.54E+01	1.13E+01	8.36E+00	6.43E+00	5.03E+00	4.01E+00	3.26E+00	2.70E+00	1.56E+00	1.74E+00	1.94E+00
21	X/Q (SRC 21)	9.22E-01	1.00E+00	1.10E+00	1.22E+00	1.36E+00	1.53E+00	1.74E+00	2.00E+00	7.20E+01	3.03E+01	1.79E+01	1.21E+01	8.86E+00	6.80E+00	5.41E+00	4.43E+00	7.63E-01	8.20E-01	8.91E-01
22	X/Q (SRC 22)	2.30E+00	2.64E+00	3.06E+00	3.60E+00	4.34E+00	5.34E+00	6.13E+00	5.89E+00	2.23E+00	1.94E+00	1.72E+00	1.53E+00	1.36E+00	1.21E+00	1.09E+00	9.90E-01	2.43E+00	2.77E+00	3.24E+00
23	X/Q (SRC 23)	1.53E+00	1.69E+00	1.89E+00	2.13E+00	2.43E+00	2.79E+00	3.25E+00	3.78E+00	3.83E+00	3.00E+00	2.54E+00	2.24E+00	1.98E+00	1.76E+00	1.58E+00	1.42E+00	1.60E+00	1.76E+00	1.98E+00
24	X/Q (SRC 24)	2.44E+00	2.83E+00	3.32E+00	3.95E+00	4.82E+00	6.10E+00	8.22E+00	1.27E+01	1.66E+01	8.77E+00	5.55E+00	3.93E+00	2.96E+00	2.34E+00	1.92E+00	1.62E+00	2.23E+00	2.56E+00	2.98E+00
25	X/Q (SRC 25)	1.39E+00	1.53E+00	1.71E+00	1.91E+00	2.13E+00	2.36E+00	2.59E+00	2.78E+00	3.84E+00	3.16E+00	2.50E+00	2.12E+00	1.84E+00	1.61E+00	1.43E+00	1.28E+00	1.44E+00	1.58E+00	1.76E+00
26	X/Q (SRC 26)	3.37E+00	4.00E+00	4.83E+00	5.92E+00	7.57E+00	9.91E+00	1.24E+01	1.35E+01	2.57E+00	2.20E+00	1.88E+00	1.62E+00	1.42E+00	1.25E+00	1.11E+00	9.99E-01	3.47E+00	4.16E+00	5.06E+00
27	X/Q (SRC 27)	1.85E+00	2.11E+00	2.43E+00	2.83E+00	3.38E+00	4.15E+00	5.36E+00	8.01E+00	8.96E+00	5.21E+00	3.68E+00	2.83E+00	2.27E+00	1.88E+00	1.60E+00	1.38E+00	1.80E+00	2.03E+00	2.33E+00
28	X/Q (SRC 28)	1.85E+00	2.11E+00	2.43E+00	2.83E+00	3.38E+00	4.15E+00	5.36E+00	8.01E+00	8.96E+00	5.21E+00	3.68E+00	2.83E+00	2.27E+00	1.88E+00	1.60E+00	1.38E+00	1.80E+00	2.03E+00	2.33E+00
29	X/Q (SRC 29)	1.18E+00	1.28E+00	1.40E+00	1.52E+00	1.65E+00	1.80E+00	1.97E+00	2.18E+00	1.96E+01	8.35E+00	5.07E+00	3.58E+00	2.70E+00	2.13E+00	1.74E+00	1.47E+00	1.18E+00	1.29E+00	1.42E+00
30	X/Q (SRC 30)	1.89E+00	2.16E+00	2.50E+00	2.92E+00	3.50E+00	4.31E+00	5.56E+00	8.13E+00	8.75E+00	5.12E+00	3.63E+00	2.80E+00	2.25E+00	1.86E+00	1.59E+00	1.37E+00	1.84E+00	2.09E+00	2.40E+00
31	X/Q (SRC 31)	1.20E+00	1.22E+00	1.20E+00	1.12E+00	1.04E+00	9.68E-01	9.05E-01	8.51E-01	4.79E-01	4.42E-01	4.12E-01	3.89E-01	3.70E-01	3.53E-01	3.38E-01	3.24E-01	1.83E+00	1.79E+00	1.83E+00
32	X/Q (SRC 32)	5.19E+00	6.04E+00	6.81E+00	7.03E+00	6.81E+00	6.27E+00	5.85E+00	5.37E+00	4.14E+00	3.33E+00	2.80E+00	2.53E+00	2.39E+00	2.28E+00	2.15E+00	2.03E+00	5.33E+00	5.87E+00	6.63E+00
33	X/Q (SRC 33)	2.82E+00	3.32E+00	3.96E+00	4.77E+00	5.88E+00	7.49E+00	1.04E+01	1.28E+01	2.86E+00	2.43E+00	2.07E+00	1.78E+00	1.54E+00	1.35E+00	1.19E+00	1.06E+00	2.97E+00	3.47E+00	4.12E+00
34	X/Q (SRC 34)	1.67E+00	1.94E+00	1.85E+00	1.65E+00	1.65E+00	1.40E+00	1.41E+00	1.08E+00	7.86E-01	6.77E-01	6.32E-01	6.10E-01	5.83E-01	5.48E-01	5.13E-01	4.85E-01	1.55E+00	1.73E+00	2.14E+00
35	X/Q (SRC 35)	1.66E+00	1.84E+00	2.05E+00	2.31E+00	2.64E+00	3.07E+00	3.63E+00	4.44E+00	1.37E+01	9.32E+00	7.02E+00	5.47E+00	4.34E+00	3.49E+00	2.86E+00	2.37E+00	1.75E+00	1.95E+00	2.19E+00

ASCON Health Risk

Supplemental HRA

	Rec	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264
1	X/Q (SRC 1)	3.88E+00	4.69E+00	5.82E+00	7.45E+00	1.00E+01	1.23E+01	3.08E+00	2.56E+00	2.18E+00	1.87E+00	1.62E+00	1.41E+00	1.24E+00	1.11E+00	2.95E+00	3.44E+00	4.10E+00	5.00E+00	6.23E+00
2	X/Q (SRC 2)	3.06E+00	3.59E+00	4.31E+00	5.29E+00	6.67E+00	8.62E+00	3.22E+01	1.79E+01	1.16E+01	8.05E+00	5.88E+00	4.48E+00	3.54E+00	2.88E+00	1.80E+00	1.99E+00	2.23E+00	2.53E+00	2.88E+00
3	X/Q (SRC 3)	2.09E+00	2.37E+00	2.72E+00	3.16E+00	3.73E+00	4.44E+00	1.40E+01	9.57E+00	7.37E+00	5.77E+00	4.53E+00	3.61E+00	2.95E+00	2.46E+00	1.70E+00	1.90E+00	2.14E+00	2.43E+00	2.80E+00
4	X/Q (SRC 4)	2.23E+00	2.55E+00	2.95E+00	3.48E+00	4.16E+00	4.99E+00	5.72E+00	4.54E+00	3.82E+00	3.23E+00	2.71E+00	2.29E+00	1.97E+00	1.71E+00	1.86E+00	2.07E+00	2.35E+00	2.70E+00	3.12E+00
5	X/Q (SRC 5)	3.64E+00	4.39E+00	5.39E+00	6.83E+00	9.27E+00	1.53E+01	3.64E+01	1.40E+01	7.86E+00	5.18E+00	3.74E+00	2.86E+00	2.29E+00	1.89E+00	2.26E+00	2.60E+00	3.02E+00	3.57E+00	4.33E+00
6	X/Q (SRC 6)	1.99E+00	2.27E+00	2.60E+00	2.98E+00	3.38E+00	3.77E+00	8.46E+00	5.55E+00	4.19E+00	3.28E+00	2.62E+00	2.15E+00	1.82E+00	1.57E+00	1.65E+00	1.83E+00	2.05E+00	2.33E+00	2.68E+00
7	X/Q (SRC 7)	2.26E+00	2.59E+00	2.99E+00	3.51E+00	4.18E+00	5.16E+00	5.69E+01	2.72E+01	1.60E+01	1.05E+01	7.33E+00	5.41E+00	4.17E+00	3.31E+00	1.66E+00	1.85E+00	2.08E+00	2.36E+00	2.71E+00
8	X/Q (SRC 8)	3.55E-01	4.04E-01	4.62E-01	5.36E-01	6.35E-01	7.89E-01	2.67E+00	2.43E+00	2.25E+00	2.00E+00	1.70E+00	1.44E+00	1.24E+00	1.08E+00	2.62E-01	2.90E-01	3.21E-01	3.56E-01	4.05E-01
9	X/Q (SRC 9)	2.77E+00	3.29E+00	3.99E+00	4.98E+00	6.61E+00	1.08E+01	1.52E+01	7.89E+00	5.19E+00	3.77E+00	2.90E+00	2.32E+00	1.93E+00	1.64E+00	1.93E+00	2.19E+00	2.51E+00	2.92E+00	3.47E+00
10	X/Q (SRC 10)	2.15E+00	2.04E+00	1.95E+00	1.76E+00	1.64E+00	1.38E+00	8.79E-01	7.96E-01	7.48E-01	7.06E-01	6.63E-01	6.23E-01	5.91E-01	5.64E-01	1.73E+00	1.93E+00	2.25E+00	2.68E+00	2.92E+00
11	X/Q (SRC 11)	2.27E+00	2.59E+00	2.98E+00	3.47E+00	4.10E+00	4.99E+00	1.10E+02	5.17E+01	2.75E+01	1.66E+01	1.11E+01	7.88E+00	5.85E+00	4.50E+00	1.41E+00	1.54E+00	1.68E+00	1.85E+00	2.04E+00
12	X/Q (SRC 12)	6.52E+00	8.57E+00	1.18E+01	1.75E+01	2.85E+01	6.22E+01	3.24E+00	2.67E+00	2.23E+00	1.88E+00	1.62E+00	1.41E+00	1.24E+00	1.10E+00	4.01E+00	4.90E+00	6.12E+00	7.85E+00	1.06E+01
13	X/Q (SRC 13)	2.85E+00	3.41E+00	4.16E+00	5.26E+00	7.08E+00	1.18E+01	1.46E+01	7.69E+00	5.08E+00	3.70E+00	2.85E+00	2.29E+00	1.90E+00	1.62E+00	1.98E+00	2.25E+00	2.60E+00	3.03E+00	3.64E+00
14	X/Q (SRC 14)	2.87E+00	3.44E+00	4.20E+00	5.32E+00	7.21E+00	1.22E+01	1.46E+01	7.69E+00	5.09E+00	3.71E+00	2.86E+00	2.30E+00	1.91E+00	1.62E+00	1.98E+00	2.26E+00	2.61E+00	3.05E+00	3.67E+00
15	X/Q (SRC 15)	1.34E+00	1.49E+00	1.68E+00	1.89E+00	2.05E+00	2.15E+00	1.61E+00	1.52E+00	1.42E+00	1.27E+00	1.08E+00	9.34E-01	8.41E-01	7.82E-01	1.19E+00	1.29E+00	1.41E+00	1.56E+00	1.72E+00
16	X/Q (SRC 16)	2.77E+00	3.29E+00	3.99E+00	4.98E+00	6.61E+00	1.08E+01	1.52E+01	7.89E+00	5.19E+00	3.77E+00	2.90E+00	2.32E+00	1.93E+00	1.64E+00	1.93E+00	2.19E+00	2.51E+00	2.92E+00	3.47E+00
17	X/Q (SRC 17)	4.40E+00	5.41E+00	6.82E+00	8.92E+00	1.24E+01	1.92E+01	8.64E+00	6.29E+00	4.82E+00	3.81E+00	3.08E+00	2.54E+00	2.14E+00	1.83E+00	2.71E+00	3.14E+00	3.69E+00	4.40E+00	5.39E+00
18	X/Q (SRC 18)	2.77E+00	3.29E+00	3.99E+00	4.98E+00	6.61E+00	1.08E+01	1.52E+01	7.89E+00	5.19E+00	3.77E+00	2.90E+00	2.32E+00	1.93E+00	1.64E+00	1.93E+00	2.19E+00	2.51E+00	2.92E+00	3.47E+00
19	X/Q (SRC 19)	1.60E+00	1.76E+00	1.93E+00	2.12E+00	2.34E+00	2.61E+00	4.08E+01	1.50E+01	8.15E+00	5.24E+00	3.69E+00	2.76E+00	2.18E+00	1.79E+00	1.29E+00	1.42E+00	1.57E+00	1.75E+00	1.96E+00
20	X/Q (SRC 20)	2.19E+00	2.51E+00	2.90E+00	3.40E+00	4.05E+00	4.99E+00	5.04E+01	2.60E+01	1.58E+01	1.04E+01	7.35E+00	5.44E+00	4.20E+00	3.35E+00	1.59E+00	1.78E+00	2.00E+00	2.26E+00	2.59E+00
21	X/Q (SRC 21)	9.73E-01	1.07E+00	1.18E+00	1.32E+00	1.49E+00	1.69E+00	3.53E+01	2.15E+01	1.45E+01	1.05E+01	7.88E+00	6.17E+00	5.00E+00	4.14E+00	6.78E-01	7.25E-01	7.82E-01	8.49E-01	9.24E-01
22	X/Q (SRC 22)	3.83E+00	4.60E+00	5.69E+00	7.27E+00	9.58E+00	1.14E+01	3.15E+00	2.61E+00	2.22E+00	1.91E+00	1.64E+00	1.43E+00	1.26E+00	1.13E+00	2.91E+00	3.39E+00	4.04E+00	4.92E+00	6.12E+00
23	X/Q (SRC 23)	2.24E+00	2.54E+00	2.93E+00	3.44E+00	4.10E+00	4.86E+00	5.82E+00	4.63E+00	3.90E+00	3.30E+00	2.76E+00	2.33E+00	2.00E+00	1.73E+00	1.83E+00	2.04E+00	2.31E+00	2.66E+00	3.08E+00
24	X/Q (SRC 24)	3.52E+00	4.23E+00	5.18E+00	6.54E+00	8.77E+00	1.39E+01	3.18E+01	1.32E+01	7.58E+00	5.06E+00	3.68E+00	2.83E+00	2.27E+00	1.88E+00	2.22E+00	2.55E+00	2.96E+00	3.50E+00	4.22E+00
25	X/Q (SRC 25)	1.98E+00	2.24E+00	2.57E+00	2.93E+00	3.33E+00	3.69E+00	7.83E+00	5.47E+00	4.21E+00	3.33E+00	2.67E+00	2.19E+00	1.85E+00	1.60E+00	1.63E+00	1.80E+00	2.02E+00	2.30E+00	2.64E+00
26	X/Q (SRC 26)	6.34E+00	8.27E+00	1.13E+01	1.64E+01	2.55E+01	4.94E+01	3.28E+00	2.71E+00	2.26E+00	1.91E+00	1.64E+00	1.43E+00	1.26E+00	1.11E+00	3.84E+00	4.69E+00	5.83E+00	7.45E+00	1.00E+01
27	X/Q (SRC 27)	2.70E+00	3.20E+00	3.86E+00	4.79E+00	6.27E+00	9.72E+00	1.39E+01	7.62E+00	5.11E+00	3.76E+00	2.91E+00	2.34E+00	1.94E+00	1.65E+00	1.89E+00	2.14E+00	2.46E+00	2.86E+00	3.39E+00
28	X/Q (SRC 28)	2.70E+00	3.20E+00	3.86E+00	4.79E+00	6.27E+00	9.72E+00	1.39E+01	7.62E+00	5.11E+00	3.76E+00	2.91E+00	2.34E+00	1.94E+00	1.65E+00	1.89E+00	2.14E+00	2.46E+00	2.86E+00	3.39E+00
29	X/Q (SRC 29)	1.57E+00	1.73E+00	1.90E+00	2.08E+00	2.29E+00	2.55E+00	3.44E+01	1.39E+01	7.86E+00	5.15E+00	3.66E+00	2.77E+00	2.20E+00	1.82E+00	1.28E+00	1.40E+00	1.55E+00	1.72E+00	1.93E+00
30	X/Q (SRC 30)	2.80E+00	3.34E+00	4.07E+00	5.11E+00	6.81E+00	1.08E+01	1.34E+01	7.43E+00	5.02E+00	3.70E+00	2.87E+00	2.31E+00	1.92E+00	1.64E+00	1.94E+00	2.21E+00	2.55E+00	2.98E+00	3.57E+00
31	X/Q (SRC 31)	1.71E+00	1.55E+00	1.41E+00	1.29E+00	1.19E+00	1.10E+00	5.50E-01	5.06E-01	4.74E-01	4.48E-01	4.23E-01	4.00E-01	3.80E-01	3.62E-01	3.53E+00	3.46E+00	3.15E+00	2.69E+00	2.31E+00
32	X/Q (SRC 32)	7.77E+00	8.85E+00	9.26E+00	8.98E+00	8.15E+00	7.59E+00	4.44E+00	3.71E+00	3.35E+00	3.13E+00	2.91E+00	2.70E+00	2.53E+00	2.39E+00	6.23E+00	6.92E+00	7.74E+00	8.86E+00	1.05E+01
33	X/Q (SRC 33)	5.01E+00	6.31E+00	8.21E+00	1.12E+01	1.62E+01	2.75E+01	3.89E+00	3.13E+00	2.56E+00	2.14E+00	1.82E+00	1.56E+00	1.36E+00	1.20E+00	3.57E+00	4.28E+00	5.22E+00	6.53E+00	8.51E+00
34	X/Q (SRC 34)	2.54E+00	2.41E+00	2.23E+00	2.06E+00	1.86E+00	1.57E+00	8.99E-01	8.38E-01	7.93E-01	7.38E-01	6.81E-01	6.36E-01	6.06E-01	5.82E-01	1.84E+00	2.07E+00	2.33E+00	2.86E+00	3.51E+00
35	X/Q (SRC 35)	2.48E+00	2.85E+00	3.32E+00	3.91E+00	4.70E+00	5.84E+00	3.74E+01	2.05E+01	1.27E+01	8.59E+00	6.18E+00	4.65E+00	3.64E+00	2.93E+00	1.81E+00	2.03E+00	2.29E+00	2.61E+00	3.02E+00

ASCON Health Risk

Supplemental HRA

	Rec	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283
1	X/Q (SRC 1)	8.01E+00	1.09E+01	1.58E+01	2.39E+01	4.20E+00	3.32E+00	2.71E+00	2.27E+00	1.92E+00	1.64E+00	1.43E+00	1.26E+00	3.39E+00	4.03E+00	4.91E+00	6.15E+00	7.98E+00	1.08E+01	1.57E+01
2	X/Q (SRC 2)	3.31E+00	3.87E+00	4.61E+00	5.53E+00	3.23E+01	1.96E+01	1.31E+01	9.27E+00	6.85E+00	5.23E+00	4.13E+00	3.34E+00	1.45E+00	1.57E+00	1.71E+00	1.88E+00	2.08E+00	2.33E+00	2.69E+00
3	X/Q (SRC 3)	3.25E+00	3.87E+00	4.68E+00	5.68E+00	3.78E+01	2.05E+01	1.29E+01	8.92E+00	6.41E+00	4.81E+00	3.77E+00	3.03E+00	1.75E+00	1.95E+00	2.20E+00	2.52E+00	2.91E+00	3.39E+00	4.04E+00
4	X/Q (SRC 4)	3.66E+00	4.40E+00	5.40E+00	6.59E+00	1.10E+01	7.84E+00	5.90E+00	4.61E+00	3.64E+00	2.93E+00	2.43E+00	2.04E+00	2.05E+00	2.33E+00	2.66E+00	3.10E+00	3.65E+00	4.36E+00	5.36E+00
5	X/Q (SRC 5)	5.39E+00	6.96E+00	9.82E+00	1.63E+01	2.11E+01	1.29E+01	8.33E+00	5.76E+00	4.25E+00	3.28E+00	2.63E+00	2.16E+00	2.20E+00	2.52E+00	2.95E+00	3.52E+00	4.34E+00	5.55E+00	7.44E+00
6	X/Q (SRC 6)	3.12E+00	3.70E+00	4.38E+00	5.04E+00	3.48E+01	1.25E+01	7.27E+00	5.00E+00	3.69E+00	2.86E+00	2.32E+00	1.93E+00	1.84E+00	2.06E+00	2.34E+00	2.69E+00	3.12E+00	3.66E+00	4.42E+00
7	X/Q (SRC 7)	3.16E+00	3.73E+00	4.50E+00	5.56E+00	1.51E+02	5.18E+01	2.57E+01	1.52E+01	1.00E+01	7.07E+00	5.26E+00	4.07E+00	1.56E+00	1.72E+00	1.92E+00	2.15E+00	2.44E+00	2.79E+00	3.23E+00
8	X/Q (SRC 8)	4.69E-01	5.44E-01	6.48E-01	7.88E-01	4.13E+00	3.63E+00	3.19E+00	2.77E+00	2.27E+00	1.85E+00	1.55E+00	1.31E+00	2.64E-01	2.90E-01	3.20E-01	3.58E-01	4.06E-01	4.65E-01	5.44E-01
9	X/Q (SRC 9)	4.25E+00	5.34E+00	7.13E+00	1.06E+01	1.84E+01	1.00E+01	6.58E+00	4.72E+00	3.59E+00	2.84E+00	2.32E+00	1.94E+00	1.97E+00	2.23E+00	2.56E+00	3.00E+00	3.59E+00	4.42E+00	5.69E+00
10	X/Q (SRC 10)	2.78E+00	2.61E+00	2.33E+00	2.01E+00	1.09E+00	1.00E+00	9.27E-01	8.63E-01	8.06E-01	7.56E-01	7.12E-01	6.70E-01	2.05E+00	2.32E+00	2.65E+00	3.12E+00	3.83E+00	4.25E+00	4.05E+00
11	X/Q (SRC 11)	2.28E+00	2.55E+00	2.90E+00	3.40E+00	5.31E+01	3.69E+01	2.43E+01	1.61E+01	1.14E+01	8.36E+00	6.33E+00	4.95E+00	1.14E+00	1.22E+00	1.31E+00	1.41E+00	1.53E+00	1.69E+00	1.89E+00
12	X/Q (SRC 12)	1.55E+01	2.46E+01	4.80E+01	1.57E+02	4.05E+00	3.25E+00	2.65E+00	2.20E+00	1.86E+00	1.61E+00	1.40E+00	1.23E+00	3.83E+00	4.62E+00	5.71E+00	7.27E+00	9.73E+00	1.41E+01	2.33E+01
13	X/Q (SRC 13)	4.51E+00	5.79E+00	8.08E+00	1.35E+01	1.77E+01	9.74E+00	6.43E+00	4.63E+00	3.53E+00	2.80E+00	2.29E+00	1.92E+00	2.01E+00	2.29E+00	2.64E+00	3.11E+00	3.74E+00	4.66E+00	6.12E+00
14	X/Q (SRC 14)	4.55E+00	5.87E+00	8.27E+00	1.43E+01	1.76E+01	9.72E+00	6.43E+00	4.63E+00	3.53E+00	2.80E+00	2.29E+00	1.92E+00	2.02E+00	2.30E+00	2.65E+00	3.12E+00	3.76E+00	4.68E+00	6.17E+00
15	X/Q (SRC 15)	1.93E+00	2.23E+00	2.54E+00	2.75E+00	2.18E+00	1.98E+00	1.77E+00	1.52E+00	1.30E+00	1.15E+00	1.05E+00	9.74E-01	1.33E+00	1.47E+00	1.62E+00	1.81E+00	2.04E+00	2.30E+00	2.64E+00
16	X/Q (SRC 16)	4.25E+00	5.34E+00	7.13E+00	1.06E+01	1.84E+01	1.00E+01	6.58E+00	4.72E+00	3.59E+00	2.84E+00	2.32E+00	1.94E+00	1.97E+00	2.23E+00	2.56E+00	3.00E+00	3.59E+00	4.42E+00	5.69E+00
17	X/Q (SRC 17)	6.81E+00	8.87E+00	1.23E+01	1.86E+01	1.14E+01	7.97E+00	5.92E+00	4.58E+00	3.64E+00	2.97E+00	2.47E+00	2.09E+00	2.42E+00	2.76E+00	3.18E+00	3.72E+00	4.44E+00	5.43E+00	6.89E+00
18	X/Q (SRC 18)	4.25E+00	5.34E+00	7.13E+00	1.06E+01	1.84E+01	1.00E+01	6.58E+00	4.72E+00	3.59E+00	2.84E+00	2.32E+00	1.94E+00	1.97E+00	2.23E+00	2.56E+00	3.00E+00	3.59E+00	4.42E+00	5.69E+00
19	X/Q (SRC 19)	2.19E+00	2.42E+00	2.68E+00	2.97E+00	4.59E+01	1.88E+01	1.05E+01	6.75E+00	4.69E+00	3.47E+00	2.72E+00	2.20E+00	1.39E+00	1.53E+00	1.70E+00	1.90E+00	2.15E+00	2.44E+00	2.74E+00
20	X/Q (SRC 20)	3.01E+00	3.55E+00	4.26E+00	5.24E+00	1.30E+02	4.85E+01	2.47E+01	1.48E+01	9.86E+00	7.00E+00	5.23E+00	4.06E+00	1.50E+00	1.66E+00	1.85E+00	2.08E+00	2.35E+00	2.69E+00	3.12E+00
21	X/Q (SRC 21)	1.01E+00	1.12E+00	1.26E+00	1.40E+00	1.29E+01	1.22E+01	1.01E+01	8.15E+00	6.55E+00	5.34E+00	4.45E+00	3.76E+00	6.03E-01	6.44E-01	6.90E-01	7.44E-01	8.07E-01	8.80E-01	9.70E-01
22	X/Q (SRC 22)	7.80E+00	1.05E+01	1.50E+01	2.18E+01	4.26E+00	3.36E+00	2.75E+00	2.30E+00	1.95E+00	1.67E+00	1.45E+00	1.27E+00	3.23E+00	3.84E+00	4.65E+00	5.82E+00	7.51E+00	1.00E+01	1.44E+01
23	X/Q (SRC 23)	3.61E+00	4.34E+00	5.31E+00	6.42E+00	1.10E+01	7.84E+00	5.93E+00	4.66E+00	3.68E+00	2.97E+00	2.46E+00	2.07E+00	1.97E+00	2.22E+00	2.54E+00	2.95E+00	3.48E+00	4.14E+00	5.07E+00
24	X/Q (SRC 24)	5.24E+00	6.71E+00	9.30E+00	1.47E+01	1.99E+01	1.23E+01	7.99E+00	5.58E+00	4.12E+00	3.19E+00	2.56E+00	2.11E+00	2.17E+00	2.49E+00	2.90E+00	3.46E+00	4.25E+00	5.38E+00	7.13E+00
25	X/Q (SRC 25)	3.05E+00	3.61E+00	4.26E+00	4.86E+00	2.87E+01	1.19E+01	7.18E+00	5.01E+00	3.71E+00	2.89E+00	2.34E+00	1.95E+00	1.81E+00	2.03E+00	2.29E+00	2.63E+00	3.05E+00	3.57E+00	4.29E+00
26	X/Q (SRC 26)	1.45E+01	2.26E+01	4.23E+01	1.16E+02	4.06E+00	3.26E+00	2.67E+00	2.21E+00	1.88E+00	1.62E+00	1.41E+00	1.24E+00	3.66E+00	4.41E+00	5.45E+00	6.92E+00	9.22E+00	1.33E+01	2.15E+01
27	X/Q (SRC 27)	4.13E+00	5.16E+00	6.82E+00	9.79E+00	1.70E+01	9.63E+00	6.43E+00	4.67E+00	3.56E+00	2.83E+00	2.32E+00	1.94E+00	1.93E+00	2.19E+00	2.51E+00	2.94E+00	3.51E+00	4.29E+00	5.48E+00
28	X/Q (SRC 28)	4.13E+00	5.16E+00	6.82E+00	9.79E+00	1.70E+01	9.63E+00	6.43E+00	4.67E+00	3.56E+00	2.83E+00	2.32E+00	1.94E+00	1.93E+00	2.19E+00	2.51E+00	2.94E+00	3.51E+00	4.29E+00	5.48E+00
29	X/Q (SRC 29)	2.15E+00	2.37E+00	2.63E+00	2.90E+00	3.93E+01	1.76E+01	1.01E+01	6.61E+00	4.64E+00	3.46E+00	2.72E+00	2.21E+00	1.37E+00	1.51E+00	1.67E+00	1.87E+00	2.11E+00	2.39E+00	2.69E+00
30	X/Q (SRC 30)	4.41E+00	5.64E+00	7.79E+00	1.24E+01	1.63E+01	9.36E+00	6.29E+00	4.58E+00	3.51E+00	2.79E+00	2.29E+00	1.92E+00	1.98E+00	2.25E+00	2.60E+00	3.05E+00	3.66E+00	4.54E+00	5.92E+00
31	X/Q (SRC 31)	2.01E+00	1.79E+00	1.61E+00	1.44E+00	6.43E-01	5.91E-01	5.51E-01	5.18E-01	4.85E-01	4.55E-01	4.28E-01	4.04E-01	1.75E+01	1.51E+01	7.07E+00	4.69E+00	3.60E+00	2.95E+00	2.54E+00
32	X/Q (SRC 32)	1.22E+01	1.29E+01	1.24E+01	1.13E+01	5.25E+00	4.67E+00	4.26E+00	3.90E+00	3.59E+00	3.34E+00	3.13E+00	2.93E+00	7.40E+00	8.31E+00	9.41E+00	1.08E+01	1.26E+01	1.54E+01	1.81E+01
33	X/Q (SRC 33)	1.17E+01	1.72E+01	2.85E+01	6.05E+01	5.14E+00	3.98E+00	3.17E+00	2.58E+00	2.15E+00	1.83E+00	1.57E+00	1.37E+00	3.40E+00	4.04E+00	4.88E+00	6.02E+00	7.65E+00	1.01E+01	1.42E+01
34	X/Q (SRC 34)	3.34E+00	3.15E+00	2.72E+00	2.39E+00	1.17E+00	1.06E+00	9.67E-01	8.96E-01	8.40E-01	7.91E-01	7.44E-01	6.98E-01	2.22E+00	2.51E+00	2.88E+00	3.35E+00	4.14E+00	5.23E+00	5.07E+00
35	X/Q (SRC 35)	3.55E+00	4.23E+00	5.16E+00	6.48E+00	8.78E+01	3.72E+01	2.01E+01	1.25E+01	8.49E+00	6.14E+00	4.64E+00	3.63E+00	1.65E+00	1.83E+00	2.04E+00	2.30E+00	2.61E+00	3.00E+00	3.47E+00

ASCON Health Risk

Supplemental HRA

	Rec	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302
1	X/Q (SRC 1)	2.53E+01	4.76E+01	5.48E+00	4.21E+00	3.33E+00	2.71E+00	2.26E+00	1.90E+00	1.63E+00	1.42E+00	3.25E+00	3.84E+00	4.61E+00	5.68E+00	7.18E+00	9.38E+00	1.32E+01	1.99E+01	3.74E+01
2	X/Q (SRC 2)	3.20E+00	3.96E+00	2.38E+01	1.72E+01	1.24E+01	9.14E+00	6.95E+00	5.42E+00	4.34E+00	3.56E+00	1.13E+00	1.21E+00	1.31E+00	1.44E+00	1.61E+00	1.83E+00	2.15E+00	2.61E+00	3.35E+00
3	X/Q (SRC 3)	4.91E+00	6.06E+00	8.47E+01	3.66E+01	1.99E+01	1.25E+01	8.55E+00	6.19E+00	4.68E+00	3.68E+00	1.62E+00	1.79E+00	1.99E+00	2.24E+00	2.54E+00	2.90E+00	3.37E+00	3.93E+00	4.69E+00
4	X/Q (SRC 4)	6.78E+00	8.75E+00	2.02E+01	1.26E+01	8.49E+00	6.14E+00	4.67E+00	3.65E+00	2.93E+00	2.42E+00	2.02E+00	2.28E+00	2.61E+00	3.02E+00	3.53E+00	4.19E+00	5.13E+00	6.36E+00	8.25E+00
5	X/Q (SRC 5)	1.08E+01	1.79E+01	1.25E+01	9.66E+00	7.30E+00	5.55E+00	4.29E+00	3.40E+00	2.76E+00	2.29E+00	2.14E+00	2.48E+00	2.92E+00	3.53E+00	4.43E+00	5.81E+00	8.13E+00	1.21E+01	2.19E+01
6	X/Q (SRC 6)	5.43E+00	6.61E+00	4.28E+01	1.91E+01	1.06E+01	6.81E+00	4.84E+00	3.64E+00	2.85E+00	2.31E+00	2.01E+00	2.27E+00	2.60E+00	3.01E+00	3.54E+00	4.22E+00	5.22E+00	6.58E+00	8.73E+00
7	X/Q (SRC 7)	3.79E+00	4.51E+00	1.23E+02	5.60E+01	3.01E+01	1.82E+01	1.20E+01	8.50E+00	6.29E+00	4.83E+00	1.35E+00	1.46E+00	1.60E+00	1.75E+00	1.93E+00	2.14E+00	2.40E+00	2.72E+00	3.15E+00
8	X/Q (SRC 8)	6.48E-01	7.81E-01	5.28E+00	4.93E+00	4.10E+00	3.34E+00	2.74E+00	2.22E+00	1.82E+00	1.52E+00	2.62E-01	2.88E-01	3.17E-01	3.55E-01	4.00E-01	4.58E-01	5.38E-01	6.37E-01	7.77E-01
9	X/Q (SRC 9)	7.78E+00	1.17E+01	2.02E+01	1.15E+01	7.68E+00	5.54E+00	4.21E+00	3.32E+00	2.69E+00	2.23E+00	1.95E+00	2.22E+00	2.56E+00	3.00E+00	3.62E+00	4.50E+00	5.93E+00	8.38E+00	1.50E+01
10	X/Q (SRC 10)	3.64E+00	3.14E+00	1.43E+00	1.30E+00	1.18E+00	1.09E+00	1.00E+00	9.19E-01	8.46E-01	7.80E-01	2.45E+00	2.82E+00	3.29E+00	3.89E+00	4.71E+00	5.98E+00	6.92E+00	6.46E+00	5.62E+00
11	X/Q (SRC 11)	2.17E+00	2.56E+00	2.76E+01	2.24E+01	1.75E+01	1.35E+01	1.03E+01	7.94E+00	6.21E+00	4.95E+00	9.09E-01	9.68E-01	1.04E+00	1.12E+00	1.23E+00	1.37E+00	1.55E+00	1.80E+00	2.16E+00
12	X/Q (SRC 12)	4.98E+01	1.99E+02	4.93E+00	3.87E+00	3.13E+00	2.58E+00	2.15E+00	1.84E+00	1.59E+00	1.39E+00	3.03E+00	3.54E+00	4.22E+00	5.18E+00	6.69E+00	9.33E+00	1.47E+01	2.84E+01	7.68E+01
13	X/Q (SRC 13)	8.78E+00	1.56E+01	1.96E+01	1.12E+01	7.52E+00	5.44E+00	4.14E+00	3.27E+00	2.65E+00	2.21E+00	1.98E+00	2.26E+00	2.60E+00	3.07E+00	3.71E+00	4.64E+00	6.18E+00	8.94E+00	1.69E+01
14	X/Q (SRC 14)	8.91E+00	1.63E+01	1.94E+01	1.12E+01	7.50E+00	5.43E+00	4.14E+00	3.27E+00	2.65E+00	2.21E+00	1.98E+00	2.26E+00	2.61E+00	3.07E+00	3.71E+00	4.64E+00	6.19E+00	8.97E+00	1.69E+01
15	X/Q (SRC 15)	3.10E+00	3.57E+00	3.08E+00	2.74E+00	2.31E+00	1.93E+00	1.69E+00	1.51E+00	1.37E+00	1.24E+00	1.51E+00	1.68E+00	1.87E+00	2.12E+00	2.41E+00	2.77E+00	3.25E+00	3.85E+00	4.71E+00
16	X/Q (SRC 16)	7.78E+00	1.17E+01	2.02E+01	1.15E+01	7.68E+00	5.54E+00	4.21E+00	3.32E+00	2.69E+00	2.23E+00	1.95E+00	2.22E+00	2.56E+00	3.00E+00	3.62E+00	4.50E+00	5.93E+00	8.38E+00	1.50E+01
17	X/Q (SRC 17)	9.28E+00	1.35E+01	1.30E+01	9.18E+00	6.79E+00	5.22E+00	4.14E+00	3.36E+00	2.78E+00	2.34E+00	1.97E+00	2.20E+00	2.48E+00	2.83E+00	3.30E+00	3.96E+00	4.97E+00	6.57E+00	9.40E+00
18	X/Q (SRC 18)	7.78E+00	1.17E+01	2.02E+01	1.15E+01	7.68E+00	5.54E+00	4.21E+00	3.32E+00	2.69E+00	2.23E+00	1.95E+00	2.22E+00	2.56E+00	3.00E+00	3.62E+00	4.50E+00	5.93E+00	8.38E+00	1.50E+01
19	X/Q (SRC 19)	3.06E+00	3.38E+00	4.71E+01	2.09E+01	1.21E+01	7.88E+00	5.57E+00	4.16E+00	3.25E+00	2.62E+00	1.48E+00	1.64E+00	1.83E+00	2.06E+00	2.34E+00	2.71E+00	3.15E+00	3.59E+00	4.04E+00
20	X/Q (SRC 20)	3.66E+00	4.35E+00	1.11E+02	5.26E+01	2.86E+01	1.75E+01	1.16E+01	8.22E+00	6.10E+00	4.70E+00	1.32E+00	1.43E+00	1.57E+00	1.73E+00	1.91E+00	2.13E+00	2.40E+00	2.73E+00	3.17E+00
21	X/Q (SRC 21)	1.08E+00	1.20E+00	6.73E+00	7.32E+00	6.84E+00	6.01E+00	5.19E+00	4.45E+00	3.82E+00	3.31E+00	5.43E-01	5.78E-01	6.18E-01	6.65E-01	7.20E-01	7.85E-01	8.65E-01	9.55E-01	1.07E+00
22	X/Q (SRC 22)	2.28E+01	4.10E+01	5.49E+00	4.23E+00	3.35E+00	2.73E+00	2.27E+00	1.92E+00	1.65E+00	1.43E+00	3.10E+00	3.64E+00	4.37E+00	5.37E+00	6.76E+00	8.81E+00	1.24E+01	1.85E+01	3.39E+01
23	X/Q (SRC 23)	6.38E+00	8.18E+00	1.98E+01	1.24E+01	8.47E+00	6.14E+00	4.68E+00	3.67E+00	2.95E+00	2.44E+00	1.93E+00	2.18E+00	2.48E+00	2.87E+00	3.34E+00	3.95E+00	4.83E+00	5.96E+00	7.71E+00
24	X/Q (SRC 24)	1.01E+01	1.60E+01	1.21E+01	9.40E+00	7.07E+00	5.38E+00	4.17E+00	3.31E+00	2.69E+00	2.24E+00	2.11E+00	2.44E+00	2.88E+00	3.47E+00	4.33E+00	5.61E+00	7.75E+00	1.12E+01	1.92E+01
25	X/Q (SRC 25)	5.23E+00	6.31E+00	3.81E+01	1.81E+01	1.02E+01	6.68E+00	4.79E+00	3.62E+00	2.85E+00	2.32E+00	1.96E+00	2.21E+00	2.53E+00	2.93E+00	3.43E+00	4.09E+00	5.04E+00	6.31E+00	8.29E+00
26	X/Q (SRC 26)	4.36E+01	1.37E+02	4.84E+00	3.81E+00	3.09E+00	2.55E+00	2.13E+00	1.83E+00	1.58E+00	1.38E+00	2.97E+00	3.48E+00	4.16E+00	5.11E+00	6.61E+00	9.17E+00	1.42E+01	2.63E+01	6.42E+01
27	X/Q (SRC 27)	7.39E+00	1.07E+01	1.87E+01	1.11E+01	7.50E+00	5.44E+00	4.16E+00	3.28E+00	2.67E+00	2.22E+00	1.91E+00	2.18E+00	2.51E+00	2.94E+00	3.53E+00	4.36E+00	5.69E+00	7.88E+00	1.29E+01
28	X/Q (SRC 28)	7.39E+00	1.07E+01	1.87E+01	1.11E+01	7.50E+00	5.44E+00	4.16E+00	3.28E+00	2.67E+00	2.22E+00	1.91E+00	2.18E+00	2.51E+00	2.94E+00	3.53E+00	4.36E+00	5.69E+00	7.88E+00	1.29E+01
29	X/Q (SRC 29)	2.99E+00	3.30E+00	4.06E+01	1.98E+01	1.17E+01	7.71E+00	5.49E+00	4.12E+00	3.23E+00	2.61E+00	1.46E+00	1.62E+00	1.80E+00	2.03E+00	2.31E+00	2.66E+00	3.08E+00	3.50E+00	3.94E+00
30	X/Q (SRC 30)	8.35E+00	1.38E+01	1.80E+01	1.08E+01	7.33E+00	5.33E+00	4.08E+00	3.23E+00	2.63E+00	2.19E+00	1.95E+00	2.21E+00	2.55E+00	3.01E+00	3.62E+00	4.50E+00	5.95E+00	8.41E+00	1.44E+01
31	X/Q (SRC 31)	2.22E+00	1.95E+00	7.66E-01	7.04E-01	6.47E-01	5.98E-01	5.55E-01	5.14E-01	4.78E-01	4.46E-01	3.00E+01	3.23E+01	1.31E+01	7.67E+00	5.50E+00	4.38E+00	3.72E+00	3.20E+00	2.81E+00
32	X/Q (SRC 32)	1.96E+01	1.88E+01	7.03E+00	6.24E+00	5.59E+00	5.06E+00	4.61E+00	4.20E+00	3.83E+00	3.50E+00	8.57E+00	9.89E+00	1.15E+01	1.36E+01	1.62E+01	1.97E+01	2.53E+01	3.10E+01	3.42E+01
33	X/Q (SRC 33)	2.20E+01	4.28E+01	6.74E+00	5.07E+00	3.94E+00	3.15E+00	2.58E+00	2.15E+00	1.83E+00	1.57E+00	2.64E+00	2.98E+00	3.41E+00	3.96E+00	4.74E+00	5.96E+00	8.19E+00	1.30E+01	2.49E+01
34	X/Q (SRC 34)	4.57E+00	3.92E+00	1.53E+00	1.38E+00	1.26E+00	1.15E+00	1.06E+00	9.64E-01	8.82E-01	8.10E-01	2.67E+00	3.11E+00	3.64E+00	4.34E+00	5.26E+00	6.69E+00	8.96E+00	8.86E+00	7.63E+00
35	X/Q (SRC 35)	4.05E+00	4.78E+00	8.19E+01	4.23E+01	2.44E+01	1.56E+01	1.07E+01	7.71E+00	5.80E+00	4.50E+00	1.40E+00	1.52E+00	1.65E+00	1.79E+00	1.95E+00	2.14E+00	2.38E+00	2.69E+00	3.14E+00

ASCON Health Risk

Supplemental HRA

	Rec	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321
1	X/Q (SRC 1)	6.87E+00	5.19E+00	4.03E+00	3.23E+00	2.65E+00	2.21E+00	1.87E+00	1.61E+00	2.59E+00	2.94E+00	3.37E+00	3.94E+00	4.70E+00	5.92E+00	8.05E+00	1.23E+01	2.29E+01	7.76E+00	5.91E+00
2	X/Q (SRC 2)	1.60E+01	1.28E+01	1.03E+01	8.22E+00	6.55E+00	5.24E+00	4.26E+00	3.53E+00	9.24E-01	9.97E-01	1.09E+00	1.21E+00	1.36E+00	1.58E+00	1.88E+00	2.32E+00	2.92E+00	1.10E+01	9.39E+00
3	X/Q (SRC 3)	7.82E+01	4.12E+01	2.36E+01	1.50E+01	1.03E+01	7.43E+00	5.59E+00	4.37E+00	1.38E+00	1.49E+00	1.62E+00	1.77E+00	1.95E+00	2.17E+00	2.43E+00	2.75E+00	3.21E+00	4.42E+01	3.07E+01
4	X/Q (SRC 4)	2.91E+01	1.74E+01	1.13E+01	7.90E+00	5.85E+00	4.45E+00	3.52E+00	2.86E+00	1.77E+00	1.96E+00	2.18E+00	2.46E+00	2.78E+00	3.20E+00	3.73E+00	4.36E+00	5.35E+00	2.93E+01	1.87E+01
5	X/Q (SRC 5)	8.79E+00	7.39E+00	6.04E+00	4.93E+00	4.04E+00	3.34E+00	2.77E+00	2.33E+00	2.08E+00	2.42E+00	2.89E+00	3.55E+00	4.52E+00	6.10E+00	8.86E+00	1.42E+01	2.82E+01	6.95E+00	6.02E+00
6	X/Q (SRC 6)	3.02E+01	1.85E+01	1.17E+01	7.93E+00	5.70E+00	4.27E+00	3.34E+00	2.70E+00	2.08E+00	2.36E+00	2.71E+00	3.18E+00	3.78E+00	4.66E+00	5.93E+00	7.80E+00	1.14E+01	2.37E+01	1.62E+01
7	X/Q (SRC 7)	5.63E+01	3.81E+01	2.54E+01	1.73E+01	1.21E+01	8.86E+00	6.70E+00	5.22E+00	1.09E+00	1.17E+00	1.25E+00	1.35E+00	1.46E+00	1.61E+00	1.80E+00	2.04E+00	2.39E+00	2.79E+01	2.32E+01
8	X/Q (SRC 8)	4.92E+00	5.01E+00	4.27E+00	3.57E+00	2.98E+00	2.40E+00	1.98E+00	1.67E+00	2.60E-01	2.83E-01	3.12E-01	3.48E-01	3.93E-01	4.54E-01	5.32E-01	6.27E-01	7.68E-01	4.24E+00	4.30E+00
9	X/Q (SRC 9)	2.10E+01	1.25E+01	8.44E+00	6.16E+00	4.70E+00	3.71E+00	3.01E+00	2.49E+00	1.88E+00	2.13E+00	2.46E+00	2.90E+00	3.50E+00	4.41E+00	5.86E+00	8.53E+00	1.66E+01	2.16E+01	1.29E+01
10	X/Q (SRC 10)	1.93E+00	1.72E+00	1.52E+00	1.35E+00	1.21E+00	1.08E+00	9.73E-01	8.83E-01	2.96E+00	3.46E+00	4.13E+00	5.04E+00	6.29E+00	8.19E+00	1.13E+01	1.38E+01	1.27E+01	2.59E+00	2.19E+00
11	X/Q (SRC 11)	1.63E+01	1.44E+01	1.22E+01	1.01E+01	8.27E+00	6.97E+00	5.74E+00	4.71E+00	7.63E-01	8.18E-01	8.83E-01	9.61E-01	1.06E+00	1.18E+00	1.35E+00	1.60E+00	1.93E+00	1.03E+01	9.80E+00
12	X/Q (SRC 12)	5.55E+00	4.35E+00	3.53E+00	2.91E+00	2.42E+00	2.07E+00	1.78E+00	1.55E+00	2.21E+00	2.55E+00	3.02E+00	3.71E+00	4.85E+00	6.82E+00	1.02E+01	1.66E+01	2.74E+01	5.67E+00	4.52E+00
13	X/Q (SRC 13)	2.04E+01	1.21E+01	8.26E+00	6.04E+00	4.62E+00	3.66E+00	2.97E+00	2.46E+00	1.89E+00	2.15E+00	2.49E+00	2.94E+00	3.55E+00	4.50E+00	6.02E+00	8.84E+00	1.74E+01	2.10E+01	1.26E+01
14	X/Q (SRC 14)	2.02E+01	1.21E+01	8.23E+00	6.03E+00	4.61E+00	3.65E+00	2.96E+00	2.46E+00	1.89E+00	2.15E+00	2.48E+00	2.93E+00	3.55E+00	4.49E+00	6.01E+00	8.81E+00	1.72E+01	2.08E+01	1.26E+01
15	X/Q (SRC 15)	4.74E+00	4.00E+00	3.22E+00	2.73E+00	2.37E+00	2.05E+00	1.79E+00	1.58E+00	1.76E+00	1.97E+00	2.21E+00	2.53E+00	2.92E+00	3.44E+00	4.13E+00	5.02E+00	6.41E+00	8.55E+00	6.54E+00
16	X/Q (SRC 16)	2.10E+01	1.25E+01	8.44E+00	6.16E+00	4.70E+00	3.71E+00	3.01E+00	2.49E+00	1.88E+00	2.13E+00	2.46E+00	2.90E+00	3.50E+00	4.41E+00	5.86E+00	8.53E+00	1.66E+01	2.16E+01	1.29E+01
17	X/Q (SRC 17)	1.28E+01	9.36E+00	7.08E+00	5.52E+00	4.40E+00	3.60E+00	2.99E+00	2.53E+00	1.55E+00	1.71E+00	1.92E+00	2.19E+00	2.56E+00	3.11E+00	3.93E+00	5.15E+00	7.05E+00	1.11E+01	8.62E+00
18	X/Q (SRC 18)	2.10E+01	1.25E+01	8.44E+00	6.16E+00	4.70E+00	3.71E+00	3.01E+00	2.49E+00	1.88E+00	2.13E+00	2.46E+00	2.90E+00	3.50E+00	4.41E+00	5.86E+00	8.53E+00	1.66E+01	2.16E+01	1.29E+01
19	X/Q (SRC 19)	4.58E+01	2.19E+01	1.30E+01	8.70E+00	6.27E+00	4.76E+00	3.72E+00	3.00E+00	1.57E+00	1.76E+00	1.98E+00	2.25E+00	2.60E+00	3.07E+00	3.72E+00	4.48E+00	5.27E+00	4.63E+01	2.25E+01
20	X/Q (SRC 20)	5.33E+01	3.66E+01	2.44E+01	1.66E+01	1.16E+01	8.53E+00	6.45E+00	5.04E+00	1.09E+00	1.17E+00	1.26E+00	1.37E+00	1.49E+00	1.64E+00	1.83E+00	2.07E+00	2.42E+00	2.71E+01	2.27E+01
21	X/Q (SRC 21)	4.22E+00	4.77E+00	4.79E+00	4.49E+00	4.07E+00	3.62E+00	3.22E+00	2.87E+00	4.96E-01	5.28E-01	5.64E-01	6.07E-01	6.56E-01	7.18E-01	7.88E-01	8.65E-01	9.62E-01	2.97E+00	3.36E+00
22	X/Q (SRC 22)	6.70E+00	5.10E+00	3.97E+00	3.19E+00	2.63E+00	2.19E+00	1.86E+00	1.61E+00	2.53E+00	2.88E+00	3.32E+00	3.91E+00	4.68E+00	5.91E+00	7.99E+00	1.20E+01	2.15E+01	7.45E+00	5.69E+00
23	X/Q (SRC 23)	2.75E+01	1.68E+01	1.09E+01	7.70E+00	5.74E+00	4.39E+00	3.48E+00	2.84E+00	1.72E+00	1.90E+00	2.12E+00	2.39E+00	2.71E+00	3.14E+00	3.68E+00	4.31E+00	5.33E+00	2.77E+01	1.79E+01
24	X/Q (SRC 24)	8.60E+00	7.26E+00	5.92E+00	4.82E+00	3.94E+00	3.25E+00	2.70E+00	2.28E+00	2.05E+00	2.38E+00	2.83E+00	3.47E+00	4.39E+00	5.88E+00	8.42E+00	1.30E+01	2.41E+01	6.84E+00	5.93E+00
25	X/Q (SRC 25)	2.83E+01	1.78E+01	1.13E+01	7.72E+00	5.59E+00	4.20E+00	3.29E+00	2.66E+00	2.01E+00	2.28E+00	2.61E+00	3.05E+00	3.62E+00	4.45E+00	5.65E+00	7.35E+00	1.05E+01	2.27E+01	1.57E+01
26	X/Q (SRC 26)	5.37E+00	4.21E+00	3.43E+00	2.83E+00	2.36E+00	2.02E+00	1.74E+00	1.52E+00	2.24E+00	2.58E+00	3.05E+00	3.75E+00	4.86E+00	6.73E+00	9.94E+00	1.59E+01	2.61E+01	5.48E+00	4.37E+00
27	X/Q (SRC 27)	1.94E+01	1.21E+01	8.23E+00	6.03E+00	4.62E+00	3.65E+00	2.96E+00	2.46E+00	1.84E+00	2.09E+00	2.41E+00	2.84E+00	3.41E+00	4.28E+00	5.65E+00	8.02E+00	1.42E+01	2.00E+01	1.25E+01
28	X/Q (SRC 28)	1.94E+01	1.21E+01	8.23E+00	6.03E+00	4.62E+00	3.65E+00	2.96E+00	2.46E+00	1.84E+00	2.09E+00	2.41E+00	2.84E+00	3.41E+00	4.28E+00	5.65E+00	8.02E+00	1.42E+01	2.00E+01	1.25E+01
29	X/Q (SRC 29)	3.95E+01	2.09E+01	1.26E+01	8.53E+00	6.18E+00	4.69E+00	3.68E+00	2.97E+00	1.57E+00	1.74E+00	1.96E+00	2.23E+00	2.56E+00	3.02E+00	3.64E+00	4.34E+00	5.09E+00	4.01E+01	2.15E+01
30	X/Q (SRC 30)	1.87E+01	1.17E+01	8.04E+00	5.91E+00	4.54E+00	3.59E+00	2.92E+00	2.42E+00	1.86E+00	2.11E+00	2.43E+00	2.87E+00	3.46E+00	4.36E+00	5.80E+00	8.28E+00	1.47E+01	1.93E+01	1.22E+01
31	X/Q (SRC 31)	9.22E-01	8.37E-01	7.56E-01	6.88E-01	6.30E-01	5.75E-01	5.29E-01	4.90E-01	3.46E+01	3.70E+01	1.74E+01	1.10E+01	8.16E+00	6.76E+00	5.81E+00	5.00E+00	4.43E+00	1.12E+00	9.88E-01
32	X/Q (SRC 32)	1.01E+01	8.71E+00	7.55E+00	6.58E+00	5.76E+00	5.07E+00	4.49E+00	4.00E+00	1.02E+01	1.19E+01	1.41E+01	1.70E+01	2.11E+01	2.71E+01	3.63E+01	5.14E+01	7.14E+01	1.46E+01	1.18E+01
33	X/Q (SRC 33)	7.84E+00	5.96E+00	4.69E+00	3.76E+00	3.06E+00	2.56E+00	2.16E+00	1.85E+00	1.85E+00	2.08E+00	2.39E+00	2.81E+00	3.44E+00	4.48E+00	6.43E+00	9.76E+00	1.50E+01	7.71E+00	5.98E+00
34	X/Q (SRC 34)	2.11E+00	1.85E+00	1.62E+00	1.42E+00	1.26E+00	1.12E+00	1.00E+00	9.01E-01	3.17E+00	3.76E+00	4.56E+00	5.68E+00	7.24E+00	9.69E+00	1.37E+01	2.01E+01	2.12E+01	2.79E+00	2.32E+00
35	X/Q (SRC 35)	4.47E+01	3.10E+01	2.17E+01	1.51E+01	1.07E+01	8.00E+00	6.17E+00	4.90E+00	1.08E+00	1.14E+00	1.22E+00	1.32E+00	1.44E+00	1.60E+00	1.80E+00	2.07E+00	2.45E+00	2.47E+01	1.97E+01

ASCON Health Risk

Supplemental HRA

	Rec	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
1	X/Q (SRC 1)	4.62E+00	3.71E+00	3.04E+00	2.52E+00	2.13E+00	1.83E+00	1.89E+00	2.10E+00	2.40E+00	2.81E+00	3.43E+00	4.44E+00	6.26E+00	9.33E+00	1.42E+01	7.70E+00	5.97E+00	4.76E+00	3.88E+00
2	X/Q (SRC 2)	7.93E+00	6.75E+00	5.73E+00	4.81E+00	4.04E+00	3.41E+00	8.02E-01	8.68E-01	9.53E-01	1.06E+00	1.21E+00	1.42E+00	1.71E+00	2.06E+00	2.45E+00	7.93E+00	7.04E+00	6.12E+00	5.35E+00
3	X/Q (SRC 3)	2.10E+01	1.46E+01	1.05E+01	7.73E+00	5.94E+00	4.72E+00	1.10E+00	1.17E+00	1.25E+00	1.35E+00	1.47E+00	1.62E+00	1.83E+00	2.11E+00	2.51E+00	2.46E+01	1.98E+01	1.55E+01	1.22E+01
4	X/Q (SRC 4)	1.26E+01	9.02E+00	6.73E+00	5.14E+00	4.07E+00	3.31E+00	1.42E+00	1.53E+00	1.66E+00	1.82E+00	2.01E+00	2.26E+00	2.61E+00	3.11E+00	3.92E+00	2.22E+01	1.63E+01	1.19E+01	8.86E+00
5	X/Q (SRC 5)	5.11E+00	4.32E+00	3.66E+00	3.14E+00	2.69E+00	2.31E+00	1.96E+00	2.29E+00	2.76E+00	3.43E+00	4.42E+00	6.06E+00	9.19E+00	1.68E+01	4.95E+01	5.90E+00	5.16E+00	4.46E+00	3.84E+00
6	X/Q (SRC 6)	1.13E+01	8.18E+00	6.11E+00	4.66E+00	3.67E+00	2.98E+00	1.97E+00	2.23E+00	2.56E+00	2.99E+00	3.56E+00	4.35E+00	5.54E+00	7.43E+00	1.10E+01	1.90E+01	1.39E+01	1.03E+01	7.83E+00
7	X/Q (SRC 7)	1.80E+01	1.38E+01	1.06E+01	8.30E+00	6.49E+00	5.17E+00	8.79E-01	9.36E-01	1.00E+00	1.08E+00	1.18E+00	1.31E+00	1.48E+00	1.70E+00	2.01E+00	1.58E+01	1.47E+01	1.24E+01	1.03E+01
8	X/Q (SRC 8)	3.89E+00	3.42E+00	2.89E+00	2.39E+00	2.01E+00	1.72E+00	2.56E-01	2.79E-01	3.07E-01	3.43E-01	3.87E-01	4.44E-01	5.18E-01	6.16E-01	7.45E-01	3.42E+00	3.44E+00	3.29E+00	2.97E+00
9	X/Q (SRC 9)	8.88E+00	6.54E+00	5.01E+00	3.99E+00	3.24E+00	2.69E+00	1.74E+00	1.97E+00	2.28E+00	2.69E+00	3.25E+00	4.09E+00	5.46E+00	8.13E+00	1.61E+01	2.15E+01	1.29E+01	8.96E+00	6.66E+00
10	X/Q (SRC 10)	1.87E+00	1.62E+00	1.41E+00	1.24E+00	1.10E+00	9.88E-01	3.67E+00	4.39E+00	5.38E+00	6.79E+00	8.87E+00	1.22E+01	1.83E+01	3.08E+01	4.59E+01	3.31E+00	2.70E+00	2.25E+00	1.90E+00
11	X/Q (SRC 11)	8.78E+00	7.48E+00	6.41E+00	5.69E+00	4.94E+00	4.25E+00	6.70E-01	7.21E-01	7.79E-01	8.51E-01	9.43E-01	1.07E+00	1.24E+00	1.47E+00	1.73E+00	6.95E+00	7.05E+00	6.49E+00	5.80E+00
12	X/Q (SRC 12)	3.70E+00	3.06E+00	2.58E+00	2.22E+00	1.92E+00	1.68E+00	1.73E+00	2.03E+00	2.44E+00	3.07E+00	4.04E+00	5.41E+00	7.32E+00	1.01E+01	1.38E+01	5.41E+00	4.42E+00	3.65E+00	3.07E+00
13	X/Q (SRC 13)	8.70E+00	6.42E+00	4.93E+00	3.93E+00	3.20E+00	2.66E+00	1.75E+00	1.98E+00	2.29E+00	2.71E+00	3.29E+00	4.15E+00	5.56E+00	8.29E+00	1.66E+01	2.09E+01	1.26E+01	8.79E+00	6.55E+00
14	X/Q (SRC 14)	8.66E+00	6.40E+00	4.92E+00	3.92E+00	3.19E+00	2.65E+00	1.74E+00	1.98E+00	2.29E+00	2.70E+00	3.28E+00	4.14E+00	5.54E+00	8.25E+00	1.63E+01	2.07E+01	1.25E+01	8.74E+00	6.52E+00
15	X/Q (SRC 15)	5.12E+00	4.12E+00	3.34E+00	2.73E+00	2.27E+00	1.93E+00	2.04E+00	2.30E+00	2.63E+00	3.06E+00	3.61E+00	4.35E+00	5.39E+00	6.89E+00	9.29E+00	1.92E+01	1.22E+01	8.31E+00	5.96E+00
16	X/Q (SRC 16)	8.88E+00	6.54E+00	5.01E+00	3.99E+00	3.24E+00	2.69E+00	1.74E+00	1.97E+00	2.28E+00	2.69E+00	3.25E+00	4.09E+00	5.46E+00	8.13E+00	1.61E+01	2.15E+01	1.29E+01	8.96E+00	6.66E+00
17	X/Q (SRC 17)	6.79E+00	5.43E+00	4.40E+00	3.65E+00	3.06E+00	2.61E+00	1.27E+00	1.40E+00	1.58E+00	1.83E+00	2.17E+00	2.64E+00	3.29E+00	4.16E+00	5.30E+00	8.89E+00	7.35E+00	6.08E+00	5.05E+00
18	X/Q (SRC 18)	8.88E+00	6.54E+00	5.01E+00	3.99E+00	3.24E+00	2.69E+00	1.74E+00	1.97E+00	2.28E+00	2.69E+00	3.25E+00	4.09E+00	5.46E+00	8.13E+00	1.61E+01	2.15E+01	1.29E+01	8.96E+00	6.66E+00
19	X/Q (SRC 19)	1.37E+01	9.36E+00	6.80E+00	5.20E+00	4.09E+00	3.30E+00	1.70E+00	1.91E+00	2.19E+00	2.53E+00	2.99E+00	3.63E+00	4.60E+00	6.15E+00	8.21E+00	4.70E+01	2.32E+01	1.43E+01	9.83E+00
20	X/Q (SRC 20)	1.76E+01	1.34E+01	1.02E+01	7.99E+00	6.26E+00	5.00E+00	8.95E-01	9.53E-01	1.02E+00	1.10E+00	1.20E+00	1.33E+00	1.50E+00	1.73E+00	2.05E+00	1.55E+01	1.44E+01	1.23E+01	1.01E+01
21	X/Q (SRC 21)	3.51E+00	3.44E+00	3.23E+00	2.95E+00	2.69E+00	2.45E+00	4.61E-01	4.89E-01	5.23E-01	5.63E-01	6.08E-01	6.61E-01	7.21E-01	7.89E-01	8.68E-01	2.22E+00	2.49E+00	2.67E+00	2.70E+00
22	X/Q (SRC 22)	4.45E+00	3.59E+00	2.94E+00	2.45E+00	2.07E+00	1.79E+00	1.92E+00	2.13E+00	2.43E+00	2.84E+00	3.45E+00	4.45E+00	6.17E+00	9.03E+00	1.37E+01	7.41E+00	5.77E+00	4.60E+00	3.74E+00
23	X/Q (SRC 23)	1.21E+01	8.65E+00	6.46E+00	4.94E+00	3.92E+00	3.20E+00	1.41E+00	1.52E+00	1.66E+00	1.83E+00	2.03E+00	2.29E+00	2.64E+00	3.14E+00	3.94E+00	2.13E+01	1.55E+01	1.14E+01	8.52E+00
24	X/Q (SRC 24)	5.04E+00	4.25E+00	3.59E+00	3.07E+00	2.62E+00	2.26E+00	1.92E+00	2.25E+00	2.69E+00	3.33E+00	4.27E+00	5.78E+00	8.61E+00	1.51E+01	3.67E+01	5.80E+00	5.07E+00	4.39E+00	3.79E+00
25	X/Q (SRC 25)	1.09E+01	7.96E+00	5.96E+00	4.55E+00	3.60E+00	2.93E+00	1.91E+00	2.15E+00	2.47E+00	2.88E+00	3.42E+00	4.17E+00	5.30E+00	7.06E+00	1.03E+01	1.83E+01	1.34E+01	1.00E+01	7.61E+00
26	X/Q (SRC 26)	3.58E+00	2.96E+00	2.49E+00	2.15E+00	1.86E+00	1.63E+00	1.76E+00	2.06E+00	2.48E+00	3.09E+00	4.01E+00	5.32E+00	7.15E+00	9.85E+00	1.36E+01	5.23E+00	4.28E+00	3.54E+00	2.98E+00
27	X/Q (SRC 27)	8.66E+00	6.40E+00	4.92E+00	3.91E+00	3.18E+00	2.64E+00	1.71E+00	1.94E+00	2.23E+00	2.63E+00	3.17E+00	3.97E+00	5.26E+00	7.65E+00	1.37E+01	1.99E+01	1.25E+01	8.73E+00	6.50E+00
28	X/Q (SRC 28)	8.66E+00	6.40E+00	4.92E+00	3.91E+00	3.18E+00	2.64E+00	1.71E+00	1.94E+00	2.23E+00	2.63E+00	3.17E+00	3.97E+00	5.26E+00	7.65E+00	1.37E+01	1.99E+01	1.25E+01	8.73E+00	6.50E+00
29	X/Q (SRC 29)	1.33E+01	9.19E+00	6.70E+00	5.12E+00	4.03E+00	3.26E+00	1.67E+00	1.88E+00	2.15E+00	2.49E+00	2.94E+00	3.56E+00	4.48E+00	5.90E+00	7.74E+00	4.11E+01	2.21E+01	1.40E+01	9.64E+00
30	X/Q (SRC 30)	8.45E+00	6.26E+00	4.82E+00	3.84E+00	3.13E+00	2.60E+00	1.71E+00	1.94E+00	2.24E+00	2.65E+00	3.20E+00	4.02E+00	5.33E+00	7.77E+00	1.39E+01	1.92E+01	1.21E+01	8.52E+00	6.36E+00
31	X/Q (SRC 31)	8.76E-01	7.85E-01	7.08E-01	6.38E-01	5.82E-01	5.35E-01	3.86E+01	4.04E+01	2.23E+01	1.60E+01	1.32E+01	1.16E+01	1.05E+01	9.29E+00	8.25E+00	1.33E+00	1.15E+00	1.01E+00	8.86E-01
32	X/Q (SRC 32)	9.67E+00	8.09E+00	6.85E+00	5.90E+00	5.14E+00	4.53E+00	1.26E+01	1.49E+01	1.80E+01	2.23E+01	2.86E+01	3.86E+01	5.61E+01	9.23E+01	1.96E+02	1.99E+01	1.52E+01	1.21E+01	9.85E+00
33	X/Q (SRC 33)	4.79E+00	3.91E+00	3.26E+00	2.77E+00	2.37E+00	2.05E+00	1.47E+00	1.67E+00	1.92E+00	2.29E+00	2.88E+00	3.90E+00	5.20E+00	7.00E+00	9.30E+00	7.15E+00	5.75E+00	4.64E+00	3.81E+00
34	X/Q (SRC 34)	1.96E+00	1.68E+00	1.45E+00	1.27E+00	1.12E+00	1.01E+00	4.04E+00	4.87E+00	6.03E+00	7.74E+00	1.04E+01	1.49E+01	2.37E+01	4.51E+01	1.14E+02	3.54E+00	2.86E+00	2.36E+00	1.99E+00
35	X/Q (SRC 35)	1.56E+01	1.24E+01	9.69E+00	7.62E+00	5.98E+00	4.78E+00	8.59E-01	9.22E-01	9.97E-01	1.09E+00	1.19E+00	1.32E+00	1.50E+00	1.74E+00	2.09E+00	1.50E+01	1.32E+01	1.09E+01	9.21E+00

ASCON Health Risk

Supplemental HRA

	Rec	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359
1	X/Q (SRC 1)	3.22E+00	2.70E+00	2.30E+00	1.99E+00	1.48E+00	1.67E+00	1.93E+00	2.31E+00	2.88E+00	3.75E+00	5.05E+00	6.75E+00	9.14E+00	7.08E+00	5.70E+00	4.62E+00	3.81E+00	3.18E+00	2.70E+00
2	X/Q (SRC 2)	4.72E+00	4.16E+00	3.65E+00	3.18E+00	7.15E-01	7.79E-01	8.60E-01	9.72E-01	1.12E+00	1.31E+00	1.54E+00	1.76E+00	2.04E+00	5.89E+00	5.42E+00	4.85E+00	4.30E+00	3.84E+00	3.47E+00
3	X/Q (SRC 3)	9.49E+00	7.37E+00	5.81E+00	4.66E+00	8.82E-01	9.39E-01	1.01E+00	1.09E+00	1.20E+00	1.33E+00	1.53E+00	1.79E+00	2.16E+00	1.49E+01	1.32E+01	1.11E+01	9.22E+00	7.74E+00	6.46E+00
4	X/Q (SRC 4)	6.77E+00	5.30E+00	4.26E+00	3.50E+00	1.10E+00	1.18E+00	1.28E+00	1.41E+00	1.57E+00	1.78E+00	2.11E+00	2.58E+00	3.31E+00	1.53E+01	1.23E+01	9.92E+00	7.98E+00	6.38E+00	5.11E+00
5	X/Q (SRC 5)	3.32E+00	2.90E+00	2.54E+00	2.23E+00	1.73E+00	2.02E+00	2.40E+00	2.95E+00	3.76E+00	5.05E+00	7.76E+00	1.49E+01	5.56E+01	5.18E+00	4.55E+00	3.97E+00	3.47E+00	3.03E+00	2.67E+00
6	X/Q (SRC 6)	6.09E+00	4.80E+00	3.87E+00	3.16E+00	1.70E+00	1.90E+00	2.14E+00	2.46E+00	2.87E+00	3.40E+00	4.33E+00	5.82E+00	8.68E+00	1.50E+01	1.16E+01	9.08E+00	7.18E+00	5.75E+00	4.68E+00
7	X/Q (SRC 7)	8.51E+00	7.11E+00	5.89E+00	4.87E+00	7.42E-01	7.93E-01	8.52E-01	9.26E-01	1.02E+00	1.13E+00	1.29E+00	1.51E+00	1.82E+00	9.86E+00	9.82E+00	8.87E+00	7.68E+00	6.60E+00	5.74E+00
8	X/Q (SRC 8)	2.62E+00	2.24E+00	1.93E+00	1.67E+00	2.52E-01	2.74E-01	3.01E-01	3.36E-01	3.78E-01	4.30E-01	5.04E-01	5.98E-01	7.14E-01	2.74E+00	2.76E+00	2.66E+00	2.49E+00	2.25E+00	1.99E+00
9	X/Q (SRC 9)	5.17E+00	4.13E+00	3.38E+00	2.82E+00	1.54E+00	1.74E+00	1.99E+00	2.34E+00	2.81E+00	3.49E+00	4.66E+00	6.88E+00	1.39E+01	2.01E+01	1.22E+01	8.59E+00	6.48E+00	5.10E+00	4.13E+00
10	X/Q (SRC 10)	1.63E+00	1.42E+00	1.25E+00	1.11E+00	4.24E+00	5.20E+00	6.54E+00	8.61E+00	1.19E+01	1.75E+01	3.08E+01	6.88E+01	3.02E+02	4.13E+00	3.29E+00	2.68E+00	2.23E+00	1.88E+00	1.62E+00
11	X/Q (SRC 11)	5.08E+00	4.57E+00	4.08E+00	3.65E+00	6.04E-01	6.49E-01	7.06E-01	7.76E-01	8.72E-01	1.00E+00	1.16E+00	1.33E+00	1.50E+00	4.90E+00	5.15E+00	4.99E+00	4.58E+00	4.15E+00	3.73E+00
12	X/Q (SRC 12)	2.61E+00	2.26E+00	1.97E+00	1.73E+00	1.49E+00	1.76E+00	2.15E+00	2.68E+00	3.34E+00	4.18E+00	5.29E+00	6.65E+00	8.38E+00	4.85E+00	4.12E+00	3.50E+00	2.97E+00	2.56E+00	2.22E+00
13	X/Q (SRC 13)	5.09E+00	4.07E+00	3.34E+00	2.78E+00	1.54E+00	1.75E+00	2.01E+00	2.36E+00	2.84E+00	3.52E+00	4.71E+00	6.97E+00	1.43E+01	1.96E+01	1.19E+01	8.44E+00	6.38E+00	5.03E+00	4.07E+00
14	X/Q (SRC 14)	5.07E+00	4.06E+00	3.33E+00	2.78E+00	1.54E+00	1.74E+00	2.00E+00	2.35E+00	2.83E+00	3.51E+00	4.69E+00	6.92E+00	1.40E+01	1.93E+01	1.18E+01	8.38E+00	6.35E+00	5.00E+00	4.05E+00
15	X/Q (SRC 15)	4.49E+00	3.49E+00	2.81E+00	2.32E+00	2.14E+00	2.43E+00	2.80E+00	3.29E+00	3.92E+00	4.75E+00	6.08E+00	8.06E+00	1.13E+01	4.67E+01	2.10E+01	1.22E+01	8.13E+00	5.81E+00	4.37E+00
16	X/Q (SRC 16)	5.17E+00	4.13E+00	3.38E+00	2.82E+00	1.54E+00	1.74E+00	1.99E+00	2.34E+00	2.81E+00	3.49E+00	4.66E+00	6.88E+00	1.39E+01	2.01E+01	1.22E+01	8.59E+00	6.48E+00	5.10E+00	4.13E+00
17	X/Q (SRC 17)	4.22E+00	3.55E+00	3.02E+00	2.59E+00	1.09E+00	1.22E+00	1.39E+00	1.62E+00	1.92E+00	2.28E+00	2.76E+00	3.34E+00	4.07E+00	6.95E+00	5.99E+00	5.17E+00	4.47E+00	3.86E+00	3.33E+00
18	X/Q (SRC 18)	5.17E+00	4.13E+00	3.38E+00	2.82E+00	1.54E+00	1.74E+00	1.99E+00	2.34E+00	2.81E+00	3.49E+00	4.66E+00	6.88E+00	1.39E+01	2.01E+01	1.22E+01	8.59E+00	6.48E+00	5.10E+00	4.13E+00
19	X/Q (SRC 19)	7.19E+00	5.49E+00	4.33E+00	3.51E+00	1.78E+00	2.03E+00	2.36E+00	2.80E+00	3.42E+00	4.33E+00	6.01E+00	9.47E+00	2.10E+01	4.97E+01	2.36E+01	1.45E+01	9.97E+00	7.33E+00	5.62E+00
20	X/Q (SRC 20)	8.33E+00	6.89E+00	5.69E+00	4.70E+00	7.55E-01	8.04E-01	8.63E-01	9.38E-01	1.03E+00	1.15E+00	1.32E+00	1.53E+00	1.83E+00	9.74E+00	9.67E+00	8.77E+00	7.62E+00	6.55E+00	5.64E+00
21	X/Q (SRC 21)	2.61E+00	2.44E+00	2.27E+00	2.10E+00	4.32E-01	4.59E-01	4.89E-01	5.26E-01	5.66E-01	6.09E-01	6.63E-01	7.20E-01	7.81E-01	1.74E+00	1.94E+00	2.10E+00	2.16E+00	2.14E+00	2.05E+00
22	X/Q (SRC 22)	3.10E+00	2.60E+00	2.22E+00	1.91E+00	1.50E+00	1.69E+00	1.95E+00	2.33E+00	2.90E+00	3.71E+00	4.94E+00	6.60E+00	8.92E+00	6.81E+00	5.49E+00	4.47E+00	3.70E+00	3.09E+00	2.62E+00
23	X/Q (SRC 23)	6.54E+00	5.11E+00	4.11E+00	3.37E+00	1.12E+00	1.20E+00	1.30E+00	1.43E+00	1.59E+00	1.80E+00	2.13E+00	2.61E+00	3.31E+00	1.50E+01	1.20E+01	9.58E+00	7.67E+00	6.13E+00	4.93E+00
24	X/Q (SRC 24)	3.27E+00	2.84E+00	2.49E+00	2.18E+00	1.70E+00	1.98E+00	2.35E+00	2.88E+00	3.65E+00	4.84E+00	7.32E+00	1.34E+01	3.90E+01	5.09E+00	4.47E+00	3.91E+00	3.42E+00	2.99E+00	2.63E+00
25	X/Q (SRC 25)	5.92E+00	4.67E+00	3.76E+00	3.08E+00	1.66E+00	1.86E+00	2.09E+00	2.41E+00	2.81E+00	3.33E+00	4.22E+00	5.64E+00	8.25E+00	1.45E+01	1.13E+01	8.82E+00	6.98E+00	5.59E+00	4.53E+00
26	X/Q (SRC 26)	2.53E+00	2.19E+00	1.91E+00	1.68E+00	1.51E+00	1.79E+00	2.17E+00	2.67E+00	3.31E+00	4.11E+00	5.19E+00	6.60E+00	8.40E+00	4.70E+00	3.99E+00	3.39E+00	2.89E+00	2.50E+00	2.17E+00
27	X/Q (SRC 27)	5.05E+00	4.04E+00	3.31E+00	2.76E+00	1.52E+00	1.71E+00	1.96E+00	2.30E+00	2.75E+00	3.38E+00	4.49E+00	6.51E+00	1.18E+01	1.87E+01	1.17E+01	8.35E+00	6.32E+00	4.97E+00	4.02E+00
28	X/Q (SRC 28)	5.05E+00	4.04E+00	3.31E+00	2.76E+00	1.52E+00	1.71E+00	1.96E+00	2.30E+00	2.75E+00	3.38E+00	4.49E+00	6.51E+00	1.18E+01	1.87E+01	1.17E+01	8.35E+00	6.32E+00	4.97E+00	4.02E+00
29	X/Q (SRC 29)	7.07E+00	5.40E+00	4.27E+00	3.46E+00	1.72E+00	1.96E+00	2.26E+00	2.69E+00	3.26E+00	4.09E+00	5.63E+00	8.63E+00	1.68E+01	4.41E+01	2.26E+01	1.41E+01	9.76E+00	7.19E+00	5.52E+00
30	X/Q (SRC 30)	4.96E+00	3.97E+00	3.26E+00	2.72E+00	1.52E+00	1.72E+00	1.97E+00	2.31E+00	2.77E+00	3.41E+00	4.53E+00	6.55E+00	1.19E+01	1.80E+01	1.14E+01	8.15E+00	6.19E+00	4.88E+00	3.95E+00
31	X/Q (SRC 31)	7.90E-01	7.07E-01	6.40E-01	5.83E-01	4.28E+01	5.24E+01	3.75E+01	3.39E+01	3.16E+01	2.95E+01	3.00E+01	2.84E+01	2.29E+01	1.58E+00	1.33E+00	1.14E+00	9.96E-01	8.77E-01	7.79E-01
32	X/Q (SRC 32)	8.19E+00	6.94E+00	5.96E+00	5.19E+00	1.31E+01	1.57E+01	1.90E+01	2.38E+01	3.08E+01	4.15E+01	6.20E+01	1.07E+02	2.77E+02	2.66E+01	1.97E+01	1.52E+01	1.20E+01	9.82E+00	8.17E+00
33	X/Q (SRC 33)	3.18E+00	2.72E+00	2.36E+00	2.07E+00	1.24E+00	1.42E+00	1.66E+00	2.05E+00	2.63E+00	3.23E+00	4.02E+00	5.15E+00	6.29E+00	5.97E+00	5.13E+00	4.37E+00	3.68E+00	3.11E+00	2.65E+00
34	X/Q (SRC 34)	1.70E+00	1.47E+00	1.29E+00	1.14E+00	4.34E+00	5.31E+00	6.65E+00	8.71E+00	1.19E+01	1.73E+01	2.96E+01	6.44E+01	3.14E+02	4.50E+00	3.53E+00	2.85E+00	2.35E+00	1.98E+00	1.69E+00
35	X/Q (SRC 35)	7.82E+00	6.63E+00	5.55E+00	4.59E+00	7.47E-01	7.99E-01	8.58E-01	9.29E-01	1.02E+00	1.14E+00	1.31E+00	1.56E+00	1.95E+00	9.68E+00	9.18E+00	8.08E+00	6.87E+00	6.03E+00	5.35E+00

ASCON Health Risk

Supplemental HRA

	Rec	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378
1	X/Q (SRC 1)	2.33E+00	2.03E+00	1.26E+00	1.43E+00	1.68E+00	2.05E+00	2.56E+00	3.16E+00	3.92E+00	4.98E+00	6.25E+00	7.87E+00	9.31E+00	1.15E+01	1.22E+01	1.12E+01	9.65E+00	8.15E+00	6.98E+00
2	X/Q (SRC 2)	3.14E+00	2.83E+00	6.54E-01	7.17E-01	8.04E-01	9.20E-01	1.05E+00	1.19E+00	1.33E+00	1.51E+00	1.74E+00	1.97E+00	2.21E+00	2.53E+00	2.85E+00	3.16E+00	3.56E+00	4.06E+00	4.45E+00
3	X/Q (SRC 3)	5.37E+00	4.45E+00	7.51E-01	8.01E-01	8.65E-01	9.45E-01	1.04E+00	1.17E+00	1.35E+00	1.61E+00	1.96E+00	2.38E+00	2.84E+00	3.49E+00	4.25E+00	5.19E+00	6.26E+00	7.35E+00	8.89E+00
4	X/Q (SRC 4)	4.18E+00	3.47E+00	9.11E-01	9.80E-01	1.07E+00	1.19E+00	1.34E+00	1.54E+00	1.85E+00	2.30E+00	2.91E+00	3.57E+00	4.53E+00	5.69E+00	7.25E+00	8.86E+00	1.07E+01	1.24E+01	1.22E+01
5	X/Q (SRC 5)	2.37E+00	2.11E+00	1.43E+00	1.64E+00	1.92E+00	2.31E+00	2.86E+00	3.74E+00	5.39E+00	8.99E+00	2.01E+01	3.94E+01	2.36E+01	1.63E+01	1.18E+01	9.15E+00	7.34E+00	6.10E+00	5.22E+00
6	X/Q (SRC 6)	3.86E+00	3.23E+00	1.37E+00	1.50E+00	1.67E+00	1.89E+00	2.17E+00	2.57E+00	3.20E+00	4.25E+00	6.21E+00	1.01E+01	2.02E+01	4.52E+01	3.47E+01	2.51E+01	2.02E+01	1.68E+01	1.41E+01
7	X/Q (SRC 7)	4.99E+00	4.33E+00	6.53E-01	6.99E-01	7.54E-01	8.22E-01	9.07E-01	1.02E+00	1.18E+00	1.39E+00	1.64E+00	1.91E+00	2.18E+00	2.62E+00	3.07E+00	3.65E+00	4.32E+00	4.94E+00	5.75E+00
8	X/Q (SRC 8)	1.77E+00	1.57E+00	2.48E-01	2.69E-01	2.95E-01	3.29E-01	3.69E-01	4.20E-01	4.87E-01	5.72E-01	6.75E-01	8.02E-01	9.28E-01	1.10E+00	1.27E+00	1.47E+00	1.63E+00	1.82E+00	2.05E+00
9	X/Q (SRC 9)	3.41E+00	2.87E+00	1.30E+00	1.46E+00	1.65E+00	1.91E+00	2.26E+00	2.74E+00	3.50E+00	4.80E+00	7.70E+00	1.52E+01	1.89E+01	2.27E+01	2.43E+01	2.57E+01	2.53E+01	2.41E+01	2.17E+01
10	X/Q (SRC 10)	1.41E+00	1.24E+00	3.89E+00	4.67E+00	5.74E+00	7.27E+00	9.50E+00	1.32E+01	2.06E+01	4.15E+01	1.44E+02	4.85E+02	2.04E+02	7.87E+01	3.73E+01	2.12E+01	1.34E+01	9.20E+00	6.68E+00
11	X/Q (SRC 11)	3.36E+00	3.05E+00	5.53E-01	5.99E-01	6.56E-01	7.30E-01	8.30E-01	9.46E-01	1.06E+00	1.17E+00	1.29E+00	1.47E+00	1.65E+00	1.83E+00	2.05E+00	2.33E+00	2.60E+00	2.88E+00	3.21E+00
12	X/Q (SRC 12)	1.95E+00	1.72E+00	1.34E+00	1.60E+00	1.93E+00	2.28E+00	2.71E+00	3.29E+00	3.92E+00	4.75E+00	5.51E+00	6.46E+00	7.38E+00	8.06E+00	7.66E+00	6.94E+00	6.14E+00	5.35E+00	4.67E+00
13	X/Q (SRC 13)	3.37E+00	2.84E+00	1.31E+00	1.46E+00	1.67E+00	1.93E+00	2.28E+00	2.77E+00	3.53E+00	4.85E+00	7.74E+00	1.50E+01	1.85E+01	2.23E+01	2.41E+01	2.56E+01	2.53E+01	2.41E+01	2.18E+01
14	X/Q (SRC 14)	3.36E+00	2.83E+00	1.30E+00	1.46E+00	1.66E+00	1.93E+00	2.27E+00	2.76E+00	3.52E+00	4.82E+00	7.67E+00	1.48E+01	1.84E+01	2.21E+01	2.38E+01	2.52E+01	2.48E+01	2.37E+01	2.13E+01
15	X/Q (SRC 15)	3.43E+00	2.77E+00	1.97E+00	2.21E+00	2.51E+00	2.89E+00	3.35E+00	3.95E+00	4.78E+00	5.92E+00	7.69E+00	1.09E+01	1.88E+01	4.52E+01	9.18E+01	1.16E+02	1.20E+02	1.15E+02	9.35E+01
16	X/Q (SRC 16)	3.41E+00	2.87E+00	1.30E+00	1.46E+00	1.65E+00	1.91E+00	2.26E+00	2.74E+00	3.50E+00	4.80E+00	7.70E+00	1.52E+01	1.89E+01	2.27E+01	2.43E+01	2.57E+01	2.53E+01	2.41E+01	2.17E+01
17	X/Q (SRC 17)	2.89E+00	2.52E+00	9.83E-01	1.11E+00	1.27E+00	1.47E+00	1.70E+00	1.97E+00	2.31E+00	2.70E+00	3.17E+00	3.77E+00	4.32E+00	5.08E+00	5.88E+00	6.74E+00	7.04E+00	6.76E+00	6.17E+00
18	X/Q (SRC 18)	3.41E+00	2.87E+00	1.30E+00	1.46E+00	1.65E+00	1.91E+00	2.26E+00	2.74E+00	3.50E+00	4.80E+00	7.70E+00	1.52E+01	1.89E+01	2.27E+01	2.43E+01	2.57E+01	2.53E+01	2.41E+01	2.17E+01
19	X/Q (SRC 19)	4.46E+00	3.63E+00	1.67E+00	1.89E+00	2.19E+00	2.58E+00	3.10E+00	3.87E+00	5.14E+00	7.66E+00	1.68E+01	5.54E+01	6.32E+01	7.39E+01	7.63E+01	8.00E+01	7.65E+01	7.51E+01	7.25E+01
20	X/Q (SRC 20)	4.87E+00	4.20E+00	6.60E-01	7.07E-01	7.64E-01	8.36E-01	9.25E-01	1.04E+00	1.20E+00	1.40E+00	1.63E+00	1.90E+00	2.17E+00	2.58E+00	3.03E+00	3.65E+00	4.35E+00	5.01E+00	5.81E+00
21	X/Q (SRC 21)	1.93E+00	1.81E+00	4.08E-01	4.32E-01	4.61E-01	4.94E-01	5.28E-01	5.66E-01	6.09E-01	6.54E-01	7.04E-01	7.58E-01	8.18E-01	8.86E-01	9.59E-01	1.04E+00	1.12E+00	1.20E+00	1.29E+00
22	X/Q (SRC 22)	2.26E+00	1.96E+00	1.28E+00	1.45E+00	1.71E+00	2.06E+00	2.53E+00	3.11E+00	3.87E+00	4.86E+00	6.20E+00	7.87E+00	9.41E+00	1.14E+01	1.20E+01	1.11E+01	9.53E+00	8.05E+00	6.85E+00
23	X/Q (SRC 23)	4.05E+00	3.37E+00	9.25E-01	9.92E-01	1.08E+00	1.20E+00	1.35E+00	1.56E+00	1.87E+00	2.30E+00	2.86E+00	3.53E+00	4.45E+00	5.59E+00	7.20E+00	8.90E+00	1.07E+01	1.21E+01	1.19E+01
24	X/Q (SRC 24)	2.33E+00	2.07E+00	1.43E+00	1.64E+00	1.91E+00	2.29E+00	2.83E+00	3.68E+00	5.23E+00	8.50E+00	1.75E+01	3.30E+01	2.21E+01	1.57E+01	1.15E+01	8.93E+00	7.17E+00	5.97E+00	5.12E+00
25	X/Q (SRC 25)	3.75E+00	3.13E+00	1.36E+00	1.50E+00	1.66E+00	1.89E+00	2.16E+00	2.56E+00	3.19E+00	4.21E+00	6.06E+00	9.62E+00	1.83E+01	3.77E+01	3.23E+01	2.41E+01	1.95E+01	1.63E+01	1.37E+01
26	X/Q (SRC 26)	1.90E+00	1.68E+00	1.36E+00	1.61E+00	1.91E+00	2.27E+00	2.69E+00	3.23E+00	3.89E+00	4.74E+00	5.57E+00	6.55E+00	7.30E+00	7.93E+00	7.56E+00	6.88E+00	6.10E+00	5.32E+00	4.61E+00
27	X/Q (SRC 27)	3.33E+00	2.80E+00	1.30E+00	1.45E+00	1.65E+00	1.90E+00	2.24E+00	2.71E+00	3.44E+00	4.68E+00	7.24E+00	1.32E+01	1.68E+01	2.02E+01	2.18E+01	2.31E+01	2.26E+01	2.16E+01	1.97E+01
28	X/Q (SRC 28)	3.33E+00	2.80E+00	1.30E+00	1.45E+00	1.65E+00	1.90E+00	2.24E+00	2.71E+00	3.44E+00	4.68E+00	7.24E+00	1.32E+01	1.68E+01	2.02E+01	2.18E+01	2.31E+01	2.26E+01	2.16E+01	1.97E+01
29	X/Q (SRC 29)	4.39E+00	3.57E+00	1.61E+00	1.83E+00	2.10E+00	2.47E+00	2.97E+00	3.69E+00	4.88E+00	7.20E+00	1.43E+01	3.96E+01	4.91E+01	5.68E+01	5.92E+01	6.26E+01	6.02E+01	5.95E+01	5.88E+01
30	X/Q (SRC 30)	3.28E+00	2.76E+00	1.30E+00	1.45E+00	1.65E+00	1.91E+00	2.25E+00	2.73E+00	3.46E+00	4.70E+00	7.23E+00	1.29E+01	1.65E+01	1.98E+01	2.14E+01	2.27E+01	2.22E+01	2.12E+01	1.93E+01
31	X/Q (SRC 31)	7.01E-01	6.36E-01	3.17E+01	6.76E+01	7.21E+01	7.26E+01	6.94E+01	6.75E+01	6.81E+01	6.80E+01	6.37E+01	5.25E+01	5.04E+01	3.22E+01	1.13E+01	6.06E+00	3.98E+00	2.91E+00	2.27E+00
32	X/Q (SRC 32)	6.92E+00	5.95E+00	1.10E+01	1.26E+01	1.47E+01	1.75E+01	2.12E+01	2.69E+01	3.72E+01	6.02E+01	1.28E+02	3.46E+02	4.83E+02	5.17E+02	3.71E+02	1.99E+02	1.12E+02	6.86E+01	4.57E+01
33	X/Q (SRC 33)	2.28E+00	2.00E+00	1.10E+00	1.27E+00	1.55E+00	1.91E+00	2.23E+00	2.61E+00	3.28E+00	3.77E+00	4.48E+00	5.18E+00	5.79E+00	7.13E+00	7.99E+00	7.83E+00	7.06E+00	6.09E+00	5.31E+00
34	X/Q (SRC 34)	1.46E+00	1.28E+00	3.51E+00	4.09E+00	4.84E+00	5.88E+00	7.36E+00	9.92E+00	1.56E+01	3.20E+01	8.55E+01	2.02E+02	1.42E+02	7.34E+01	3.88E+01	2.28E+01	1.47E+01	1.02E+01	7.43E+00
35	X/Q (SRC 35)	4.70E+00	4.12E+00	6.54E-01	6.97E-01	7.52E-01	8.25E-01	9.16E-01	1.03E+00	1.22E+00	1.49E+00	1.74E+00	1.97E+00	2.31E+00	2.84E+00	3.15E+00	3.77E+00	4.28E+00	4.86E+00	5.79E+00

ASCON Health Risk

Supplemental HRA

	Rec	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397
1	X/Q (SRC 1)	5.98E+00	5.09E+00	4.31E+00	3.64E+00	3.09E+00	2.64E+00	2.28E+00	2.00E+00	1.12E+00	1.29E+00	1.54E+00	1.87E+00	2.19E+00	2.57E+00	3.12E+00	3.74E+00	4.52E+00	5.34E+00	6.18E+00
2	X/Q (SRC 2)	4.50E+00	4.26E+00	3.92E+00	3.54E+00	3.18E+00	2.89E+00	2.66E+00	2.45E+00	6.13E-01	6.82E-01	7.71E-01	8.71E-01	9.63E-01	1.05E+00	1.16E+00	1.32E+00	1.49E+00	1.63E+00	1.81E+00
3	X/Q (SRC 3)	9.70E+00	9.18E+00	8.14E+00	6.99E+00	6.06E+00	5.29E+00	4.63E+00	4.02E+00	6.64E-01	7.11E-01	7.70E-01	8.45E-01	9.36E-01	1.06E+00	1.25E+00	1.49E+00	1.74E+00	2.00E+00	2.35E+00
4	X/Q (SRC 4)	1.07E+01	9.05E+00	7.68E+00	6.57E+00	5.59E+00	4.71E+00	3.98E+00	3.36E+00	7.92E-01	8.58E-01	9.42E-01	1.05E+00	1.19E+00	1.40E+00	1.69E+00	2.05E+00	2.41E+00	2.89E+00	3.51E+00
5	X/Q (SRC 5)	4.55E+00	4.02E+00	3.57E+00	3.12E+00	2.78E+00	2.47E+00	2.21E+00	1.99E+00	1.18E+00	1.35E+00	1.56E+00	1.86E+00	2.28E+00	2.93E+00	3.95E+00	5.65E+00	8.41E+00	1.16E+01	1.21E+01
6	X/Q (SRC 6)	1.16E+01	9.52E+00	7.77E+00	6.36E+00	5.25E+00	4.37E+00	3.70E+00	3.15E+00	1.09E+00	1.19E+00	1.32E+00	1.50E+00	1.72E+00	2.04E+00	2.57E+00	3.44E+00	4.73E+00	6.72E+00	1.00E+01
7	X/Q (SRC 7)	6.52E+00	6.82E+00	6.51E+00	5.77E+00	5.18E+00	4.59E+00	4.09E+00	3.67E+00	5.89E-01	6.31E-01	6.83E-01	7.50E-01	8.37E-01	9.55E-01	1.11E+00	1.27E+00	1.43E+00	1.61E+00	1.87E+00
8	X/Q (SRC 8)	2.17E+00	2.21E+00	2.17E+00	2.05E+00	1.92E+00	1.73E+00	1.59E+00	1.43E+00	2.43E-01	2.64E-01	2.90E-01	3.23E-01	3.60E-01	4.06E-01	4.66E-01	5.44E-01	6.28E-01	7.25E-01	8.40E-01
9	X/Q (SRC 9)	1.47E+01	1.03E+01	7.68E+00	5.93E+00	4.82E+00	3.97E+00	3.33E+00	2.83E+00	1.09E+00	1.21E+00	1.36E+00	1.56E+00	1.82E+00	2.17E+00	2.69E+00	3.49E+00	4.71E+00	6.53E+00	8.69E+00
10	X/Q (SRC 10)	5.04E+00	3.95E+00	3.18E+00	2.59E+00	2.18E+00	1.85E+00	1.60E+00	1.39E+00	2.89E+00	3.31E+00	3.87E+00	4.67E+00	5.89E+00	8.17E+00	1.32E+01	2.45E+01	4.73E+01	8.12E+01	8.13E+01
11	X/Q (SRC 11)	3.59E+00	3.85E+00	3.86E+00	3.61E+00	3.38E+00	3.11E+00	2.79E+00	2.56E+00	5.16E-01	5.64E-01	6.26E-01	7.02E-01	7.89E-01	8.69E-01	9.42E-01	1.02E+00	1.14E+00	1.28E+00	1.40E+00
12	X/Q (SRC 12)	4.10E+00	3.61E+00	3.19E+00	2.77E+00	2.45E+00	2.16E+00	1.90E+00	1.69E+00	1.25E+00	1.46E+00	1.67E+00	1.90E+00	2.25E+00	2.61E+00	3.01E+00	3.49E+00	3.90E+00	4.41E+00	5.19E+00
13	X/Q (SRC 13)	1.45E+01	1.01E+01	7.57E+00	5.84E+00	4.76E+00	3.92E+00	3.29E+00	2.80E+00	1.10E+00	1.22E+00	1.37E+00	1.57E+00	1.83E+00	2.19E+00	2.71E+00	3.52E+00	4.72E+00	6.51E+00	8.63E+00
14	X/Q (SRC 14)	1.43E+01	9.99E+00	7.51E+00	5.81E+00	4.74E+00	3.91E+00	3.28E+00	2.79E+00	1.09E+00	1.22E+00	1.37E+00	1.57E+00	1.83E+00	2.18E+00	2.70E+00	3.50E+00	4.70E+00	6.47E+00	8.58E+00
15	X/Q (SRC 15)	4.78E+01	2.51E+01	1.51E+01	1.00E+01	7.11E+00	5.29E+00	4.11E+00	3.28E+00	1.63E+00	1.78E+00	1.96E+00	2.19E+00	2.44E+00	2.76E+00	3.23E+00	3.98E+00	5.20E+00	7.46E+00	1.16E+01
16	X/Q (SRC 16)	1.47E+01	1.03E+01	7.68E+00	5.93E+00	4.82E+00	3.97E+00	3.33E+00	2.83E+00	1.09E+00	1.21E+00	1.36E+00	1.56E+00	1.82E+00	2.17E+00	2.69E+00	3.49E+00	4.71E+00	6.53E+00	8.69E+00
17	X/Q (SRC 17)	5.44E+00	4.81E+00	4.29E+00	3.77E+00	3.40E+00	3.02E+00	2.69E+00	2.39E+00	9.10E-01	1.03E+00	1.16E+00	1.32E+00	1.49E+00	1.69E+00	1.93E+00	2.21E+00	2.52E+00	2.90E+00	3.32E+00
18	X/Q (SRC 18)	1.47E+01	1.03E+01	7.68E+00	5.93E+00	4.82E+00	3.97E+00	3.33E+00	2.83E+00	1.09E+00	1.21E+00	1.36E+00	1.56E+00	1.82E+00	2.17E+00	2.69E+00	3.49E+00	4.71E+00	6.53E+00	8.69E+00
19	X/Q (SRC 19)	3.73E+01	2.10E+01	1.37E+01	9.54E+00	7.23E+00	5.61E+00	4.49E+00	3.68E+00	1.40E+00	1.55E+00	1.73E+00	1.96E+00	2.25E+00	2.68E+00	3.41E+00	4.87E+00	7.83E+00	1.33E+01	1.93E+01
20	X/Q (SRC 20)	6.48E+00	6.72E+00	6.43E+00	5.73E+00	5.16E+00	4.57E+00	4.05E+00	3.60E+00	5.97E-01	6.42E-01	6.97E-01	7.68E-01	8.55E-01	9.67E-01	1.11E+00	1.26E+00	1.42E+00	1.61E+00	1.84E+00
21	X/Q (SRC 21)	1.41E+00	1.56E+00	1.69E+00	1.78E+00	1.78E+00	1.74E+00	1.67E+00	1.58E+00	3.87E-01	4.10E-01	4.36E-01	4.65E-01	4.93E-01	5.24E-01	5.58E-01	5.96E-01	6.37E-01	6.81E-01	7.28E-01
22	X/Q (SRC 22)	5.82E+00	4.93E+00	4.16E+00	3.53E+00	3.00E+00	2.57E+00	2.23E+00	1.95E+00	1.14E+00	1.32E+00	1.55E+00	1.85E+00	2.17E+00	2.55E+00	3.05E+00	3.70E+00	4.51E+00	5.40E+00	6.28E+00
23	X/Q (SRC 23)	1.06E+01	8.97E+00	7.56E+00	6.41E+00	5.41E+00	4.53E+00	3.84E+00	3.25E+00	8.00E-01	8.67E-01	9.55E-01	1.07E+00	1.22E+00	1.41E+00	1.68E+00	2.03E+00	2.40E+00	2.86E+00	3.43E+00
24	X/Q (SRC 24)	4.47E+00	3.95E+00	3.51E+00	3.07E+00	2.74E+00	2.43E+00	2.17E+00	1.95E+00	1.20E+00	1.36E+00	1.57E+00	1.87E+00	2.27E+00	2.88E+00	3.85E+00	5.48E+00	8.14E+00	1.12E+01	1.18E+01
25	X/Q (SRC 25)	1.13E+01	9.27E+00	7.57E+00	6.21E+00	5.12E+00	4.25E+00	3.59E+00	3.05E+00	1.10E+00	1.21E+00	1.34E+00	1.52E+00	1.74E+00	2.07E+00	2.58E+00	3.41E+00	4.63E+00	6.52E+00	9.67E+00
26	X/Q (SRC 26)	4.01E+00	3.52E+00	3.10E+00	2.69E+00	2.38E+00	2.10E+00	1.86E+00	1.65E+00	1.25E+00	1.45E+00	1.66E+00	1.90E+00	2.21E+00	2.57E+00	3.01E+00	3.51E+00	3.96E+00	4.49E+00	5.20E+00
27	X/Q (SRC 27)	1.40E+01	9.92E+00	7.47E+00	5.77E+00	4.70E+00	3.87E+00	3.25E+00	2.76E+00	1.10E+00	1.22E+00	1.37E+00	1.57E+00	1.82E+00	2.16E+00	2.67E+00	3.45E+00	4.62E+00	6.36E+00	8.44E+00
28	X/Q (SRC 28)	1.40E+01	9.92E+00	7.47E+00	5.77E+00	4.70E+00	3.87E+00	3.25E+00	2.76E+00	1.10E+00	1.22E+00	1.37E+00	1.57E+00	1.82E+00	2.16E+00	2.67E+00	3.45E+00	4.62E+00	6.36E+00	8.44E+00
29	X/Q (SRC 29)	3.44E+01	2.01E+01	1.32E+01	9.28E+00	7.06E+00	5.48E+00	4.40E+00	3.61E+00	1.37E+00	1.52E+00	1.71E+00	1.95E+00	2.24E+00	2.67E+00	3.38E+00	4.77E+00	7.48E+00	1.25E+01	1.81E+01
30	X/Q (SRC 30)	1.36E+01	9.67E+00	7.31E+00	5.66E+00	4.62E+00	3.80E+00	3.20E+00	2.72E+00	1.10E+00	1.22E+00	1.38E+00	1.58E+00	1.83E+00	2.18E+00	2.68E+00	3.46E+00	4.61E+00	6.32E+00	8.34E+00
31	X/Q (SRC 31)	1.84E+00	1.52E+00	1.29E+00	1.12E+00	9.74E-01	8.58E-01	7.69E-01	6.93E-01	1.33E+01	2.15E+01	2.69E+01	2.92E+01	2.88E+01	2.81E+01	2.79E+01	2.81E+01	2.62E+01	2.32E+01	2.00E+01
32	X/Q (SRC 32)	3.23E+01	2.40E+01	1.85E+01	1.45E+01	1.18E+01	9.77E+00	8.20E+00	6.99E+00	7.90E+00	8.81E+00	1.00E+01	1.17E+01	1.42E+01	1.83E+01	2.60E+01	4.09E+01	6.71E+01	1.10E+02	1.61E+02
33	X/Q (SRC 33)	4.72E+00	4.22E+00	3.78E+00	3.32E+00	2.95E+00	2.58E+00	2.24E+00	1.96E+00	1.02E+00	1.23E+00	1.45E+00	1.63E+00	1.84E+00	2.24E+00	2.60E+00	2.86E+00	3.31E+00	3.68E+00	4.16E+00
34	X/Q (SRC 34)	5.60E+00	4.36E+00	3.49E+00	2.84E+00	2.37E+00	2.00E+00	1.71E+00	1.48E+00	2.40E+00	2.72E+00	3.19E+00	3.89E+00	4.99E+00	7.05E+00	1.13E+01	1.91E+01	3.24E+01	4.99E+01	5.61E+01
35	X/Q (SRC 35)	6.53E+00	6.60E+00	6.10E+00	5.32E+00	4.70E+00	4.24E+00	3.85E+00	3.48E+00	5.84E-01	6.31E-01	6.88E-01	7.55E-01	8.46E-01	9.92E-01	1.18E+00	1.33E+00	1.46E+00	1.67E+00	2.03E+00

ASCON Health Risk

Supplemental HRA

	Rec	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416
1	X/Q (SRC 1)	7.36E+00	8.09E+00	7.92E+00	7.17E+00	6.28E+00	5.47E+00	4.83E+00	4.28E+00	3.78E+00	3.33E+00	2.91E+00	2.54E+00	2.22E+00	1.95E+00	1.04E+00	1.21E+00	1.42E+00	1.62E+00	1.84E+00
2	X/Q (SRC 2)	2.04E+00	2.23E+00	2.43E+00	2.71E+00	3.07E+00	3.39E+00	3.51E+00	3.42E+00	3.21E+00	2.96E+00	2.69E+00	2.45E+00	2.26E+00	2.11E+00	5.90E-01	6.60E-01	7.31E-01	7.99E-01	8.59E-01
3	X/Q (SRC 3)	2.79E+00	3.23E+00	3.84E+00	4.43E+00	5.04E+00	5.94E+00	6.65E+00	6.63E+00	6.12E+00	5.47E+00	4.80E+00	4.27E+00	3.83E+00	3.45E+00	5.99E-01	6.44E-01	7.00E-01	7.76E-01	8.77E-01
4	X/Q (SRC 4)	4.16E+00	5.07E+00	5.87E+00	6.93E+00	8.07E+00	8.36E+00	7.74E+00	6.86E+00	5.94E+00	5.21E+00	4.62E+00	4.08E+00	3.58E+00	3.13E+00	7.08E-01	7.72E-01	8.51E-01	9.65E-01	1.12E+00
5	X/Q (SRC 5)	1.05E+01	8.46E+00	7.07E+00	6.03E+00	5.17E+00	4.51E+00	3.99E+00	3.57E+00	3.16E+00	2.82E+00	2.53E+00	2.28E+00	2.05E+00	1.85E+00	1.02E+00	1.16E+00	1.35E+00	1.60E+00	1.95E+00
6	X/Q (SRC 6)	1.43E+01	1.62E+01	1.49E+01	1.33E+01	1.18E+01	1.03E+01	8.91E+00	7.64E+00	6.49E+00	5.50E+00	4.67E+00	3.99E+00	3.42E+00	2.97E+00	9.13E-01	1.00E+00	1.12E+00	1.27E+00	1.50E+00
7	X/Q (SRC 7)	2.15E+00	2.40E+00	2.78E+00	3.20E+00	3.58E+00	4.06E+00	4.65E+00	5.01E+00	4.87E+00	4.53E+00	4.12E+00	3.74E+00	3.36E+00	3.06E+00	5.40E-01	5.82E-01	6.35E-01	7.06E-01	7.97E-01
8	X/Q (SRC 8)	9.62E-01	1.07E+00	1.20E+00	1.36E+00	1.50E+00	1.64E+00	1.73E+00	1.78E+00	1.75E+00	1.69E+00	1.60E+00	1.51E+00	1.39E+00	1.27E+00	2.38E-01	2.59E-01	2.83E-01	3.15E-01	3.53E-01
9	X/Q (SRC 9)	1.04E+01	1.12E+01	1.21E+01	1.26E+01	1.24E+01	1.15E+01	9.77E+00	7.94E+00	6.33E+00	5.19E+00	4.32E+00	3.68E+00	3.14E+00	2.71E+00	9.30E-01	1.03E+00	1.16E+00	1.33E+00	1.54E+00
10	X/Q (SRC 10)	5.30E+01	3.24E+01	2.09E+01	1.42E+01	1.00E+01	7.41E+00	5.68E+00	4.48E+00	3.59E+00	2.95E+00	2.47E+00	2.11E+00	1.81E+00	1.57E+00	2.08E+00	2.39E+00	2.82E+00	3.50E+00	4.64E+00
11	X/Q (SRC 11)	1.52E+00	1.67E+00	1.85E+00	2.03E+00	2.22E+00	2.46E+00	2.76E+00	3.00E+00	3.04E+00	2.96E+00	2.78E+00	2.61E+00	2.40E+00	2.19E+00	4.94E-01	5.46E-01	6.08E-01	6.69E-01	7.24E-01
12	X/Q (SRC 12)	5.73E+00	5.61E+00	5.24E+00	4.79E+00	4.29E+00	3.79E+00	3.42E+00	3.10E+00	2.79E+00	2.51E+00	2.26E+00	2.05E+00	1.84E+00	1.65E+00	1.14E+00	1.28E+00	1.42E+00	1.63E+00	1.87E+00
13	X/Q (SRC 13)	1.03E+01	1.11E+01	1.20E+01	1.26E+01	1.23E+01	1.14E+01	9.68E+00	7.85E+00	6.26E+00	5.13E+00	4.27E+00	3.64E+00	3.11E+00	2.68E+00	9.37E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00
14	X/Q (SRC 14)	1.03E+01	1.11E+01	1.19E+01	1.24E+01	1.22E+01	1.12E+01	9.57E+00	7.78E+00	6.21E+00	5.09E+00	4.25E+00	3.62E+00	3.09E+00	2.67E+00	9.36E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00
15	X/Q (SRC 15)	1.94E+01	3.04E+01	4.12E+01	4.66E+01	4.69E+01	4.13E+01	3.04E+01	2.08E+01	1.43E+01	1.01E+01	7.47E+00	5.71E+00	4.49E+00	3.63E+00	1.26E+00	1.36E+00	1.48E+00	1.64E+00	1.84E+00
16	X/Q (SRC 16)	1.04E+01	1.12E+01	1.21E+01	1.26E+01	1.24E+01	1.15E+01	9.77E+00	7.94E+00	6.33E+00	5.19E+00	4.32E+00	3.68E+00	3.14E+00	2.71E+00	9.30E-01	1.03E+00	1.16E+00	1.33E+00	1.54E+00
17	X/Q (SRC 17)	3.74E+00	4.17E+00	4.73E+00	5.15E+00	5.11E+00	4.80E+00	4.38E+00	3.96E+00	3.52E+00	3.18E+00	2.90E+00	2.67E+00	2.43E+00	2.20E+00	8.52E-01	9.52E-01	1.06E+00	1.18E+00	1.31E+00
18	X/Q (SRC 18)	1.04E+01	1.12E+01	1.21E+01	1.26E+01	1.24E+01	1.15E+01	9.77E+00	7.94E+00	6.33E+00	5.19E+00	4.32E+00	3.68E+00	3.14E+00	2.71E+00	9.30E-01	1.03E+00	1.16E+00	1.33E+00	1.54E+00
19	X/Q (SRC 19)	2.32E+01	2.45E+01	2.63E+01	2.80E+01	2.81E+01	2.62E+01	2.13E+01	1.57E+01	1.13E+01	8.57E+00	6.68E+00	5.38E+00	4.38E+00	3.64E+00	1.10E+00	1.20E+00	1.32E+00	1.49E+00	1.72E+00
20	X/Q (SRC 20)	2.12E+00	2.39E+00	2.79E+00	3.24E+00	3.65E+00	4.12E+00	4.65E+00	4.95E+00	4.80E+00	4.49E+00	4.10E+00	3.75E+00	3.37E+00	3.04E+00	5.51E-01	5.95E-01	6.50E-01	7.20E-01	8.05E-01
21	X/Q (SRC 21)	7.79E-01	8.38E-01	9.02E-01	9.63E-01	1.02E+00	1.08E+00	1.17E+00	1.28E+00	1.40E+00	1.48E+00	1.51E+00	1.49E+00	1.45E+00	1.39E+00	3.68E-01	3.89E-01	4.11E-01	4.36E-01	4.62E-01
22	X/Q (SRC 22)	7.36E+00	7.97E+00	7.81E+00	7.10E+00	6.24E+00	5.44E+00	4.77E+00	4.20E+00	3.69E+00	3.23E+00	2.82E+00	2.47E+00	2.16E+00	1.90E+00	1.05E+00	1.21E+00	1.40E+00	1.61E+00	1.84E+00
23	X/Q (SRC 23)	4.14E+00	5.08E+00	5.96E+00	6.98E+00	7.97E+00	8.20E+00	7.64E+00	6.79E+00	5.93E+00	5.17E+00	4.53E+00	3.97E+00	3.47E+00	3.03E+00	7.18E-01	7.85E-01	8.70E-01	9.85E-01	1.13E+00
24	X/Q (SRC 24)	1.02E+01	8.28E+00	6.93E+00	5.92E+00	5.08E+00	4.43E+00	3.92E+00	3.51E+00	3.11E+00	2.78E+00	2.49E+00	2.24E+00	2.02E+00	1.83E+00	1.04E+00	1.17E+00	1.35E+00	1.60E+00	1.93E+00
25	X/Q (SRC 25)	1.38E+01	1.57E+01	1.46E+01	1.30E+01	1.15E+01	1.01E+01	8.73E+00	7.47E+00	6.35E+00	5.38E+00	4.57E+00	3.89E+00	3.34E+00	2.89E+00	9.25E-01	1.02E+00	1.13E+00	1.30E+00	1.52E+00
26	X/Q (SRC 26)	5.66E+00	5.51E+00	5.19E+00	4.77E+00	4.28E+00	3.79E+00	3.39E+00	3.06E+00	2.73E+00	2.45E+00	2.20E+00	1.99E+00	1.79E+00	1.61E+00	1.14E+00	1.27E+00	1.43E+00	1.61E+00	1.83E+00
27	X/Q (SRC 27)	1.01E+01	1.09E+01	1.17E+01	1.23E+01	1.20E+01	1.11E+01	9.52E+00	7.75E+00	6.19E+00	5.07E+00	4.22E+00	3.59E+00	3.06E+00	2.64E+00	9.42E-01	1.04E+00	1.17E+00	1.34E+00	1.54E+00
28	X/Q (SRC 28)	1.01E+01	1.09E+01	1.17E+01	1.23E+01	1.20E+01	1.11E+01	9.52E+00	7.75E+00	6.19E+00	5.07E+00	4.22E+00	3.59E+00	3.06E+00	2.64E+00	9.42E-01	1.04E+00	1.17E+00	1.34E+00	1.54E+00
29	X/Q (SRC 29)	2.17E+01	2.30E+01	2.47E+01	2.64E+01	2.65E+01	2.49E+01	2.04E+01	1.51E+01	1.10E+01	8.32E+00	6.49E+00	5.23E+00	4.27E+00	3.54E+00	1.11E+00	1.21E+00	1.34E+00	1.51E+00	1.75E+00
30	X/Q (SRC 30)	9.97E+00	1.08E+01	1.15E+01	1.21E+01	1.18E+01	1.09E+01	9.32E+00	7.59E+00	6.06E+00	4.98E+00	4.15E+00	3.53E+00	3.02E+00	2.61E+00	9.47E-01	1.05E+00	1.18E+00	1.34E+00	1.55E+00
31	X/Q (SRC 31)	1.56E+01	1.01E+01	6.46E+00	4.45E+00	3.28E+00	2.55E+00	2.05E+00	1.70E+00	1.43E+00	1.23E+00	1.07E+00	9.43E-01	8.38E-01	7.52E-01	7.33E+00	1.03E+01	1.29E+01	1.46E+01	1.54E+01
32	X/Q (SRC 32)	1.82E+02	1.60E+02	1.22E+02	8.78E+01	6.23E+01	4.47E+01	3.29E+01	2.51E+01	1.96E+01	1.58E+01	1.30E+01	1.09E+01	9.26E+00	7.93E+00	5.95E+00	6.71E+00	7.71E+00	9.16E+00	1.14E+01
33	X/Q (SRC 33)	4.93E+00	5.53E+00	5.70E+00	5.38E+00	4.86E+00	4.22E+00	3.77E+00	3.47E+00	3.14E+00	2.86E+00	2.61E+00	2.40E+00	2.15E+00	1.92E+00	1.00E+00	1.15E+00	1.25E+00	1.37E+00	1.62E+00
34	X/Q (SRC 34)	4.18E+01	2.88E+01	2.03E+01	1.43E+01	1.03E+01	7.69E+00	5.96E+00	4.76E+00	3.86E+00	3.20E+00	2.69E+00	2.29E+00	1.96E+00	1.70E+00	1.83E+00	2.10E+00	2.49E+00	3.11E+00	4.18E+00
35	X/Q (SRC 35)	2.23E+00	2.45E+00	2.82E+00	3.16E+00	3.51E+00	4.09E+00	4.69E+00	4.94E+00	4.68E+00	4.28E+00	3.82E+00	3.42E+00	3.14E+00	2.91E+00	5.43E-01	5.85E-01	6.36E-01	7.14E-01	8.33E-01

ASCON Health Risk

Supplemental HRA

	Rec	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435
1	X/Q (SRC 1)	2.17E+00	2.52E+00	2.88E+00	3.39E+00	3.85E+00	4.33E+00	5.06E+00	5.70E+00	5.81E+00	5.45E+00	4.95E+00	4.39E+00	3.90E+00	3.53E+00	3.21E+00	2.91E+00	2.63E+00	2.36E+00	2.12E+00
2	X/Q (SRC 2)	9.30E-01	1.04E+00	1.16E+00	1.27E+00	1.37E+00	1.51E+00	1.67E+00	1.80E+00	1.93E+00	2.13E+00	2.39E+00	2.63E+00	2.79E+00	2.79E+00	2.67E+00	2.50E+00	2.32E+00	2.12E+00	1.95E+00
3	X/Q (SRC 3)	1.01E+00	1.17E+00	1.33E+00	1.48E+00	1.69E+00	1.98E+00	2.23E+00	2.54E+00	2.94E+00	3.27E+00	3.64E+00	4.20E+00	4.76E+00	4.95E+00	4.73E+00	4.35E+00	3.92E+00	3.50E+00	3.17E+00
4	X/Q (SRC 4)	1.32E+00	1.53E+00	1.74E+00	2.00E+00	2.38E+00	2.72E+00	3.18E+00	3.71E+00	4.15E+00	4.77E+00	5.53E+00	5.92E+00	5.75E+00	5.31E+00	4.75E+00	4.19E+00	3.76E+00	3.41E+00	3.09E+00
5	X/Q (SRC 5)	2.39E+00	2.98E+00	3.79E+00	4.90E+00	6.04E+00	6.88E+00	6.73E+00	6.06E+00	5.39E+00	4.82E+00	4.27E+00	3.82E+00	3.45E+00	3.12E+00	2.83E+00	2.55E+00	2.29E+00	2.09E+00	1.90E+00
6	X/Q (SRC 6)	1.82E+00	2.27E+00	2.84E+00	3.58E+00	4.60E+00	6.02E+00	7.57E+00	9.00E+00	9.19E+00	8.80E+00	8.24E+00	7.56E+00	6.84E+00	6.09E+00	5.35E+00	4.67E+00	4.07E+00	3.55E+00	3.11E+00
7	X/Q (SRC 7)	9.08E-01	1.02E+00	1.13E+00	1.24E+00	1.41E+00	1.61E+00	1.77E+00	1.96E+00	2.22E+00	2.48E+00	2.71E+00	3.05E+00	3.48E+00	3.77E+00	3.83E+00	3.65E+00	3.37E+00	3.10E+00	2.81E+00
8	X/Q (SRC 8)	3.96E-01	4.49E-01	5.11E-01	5.82E-01	6.64E-01	7.47E-01	8.38E-01	9.21E-01	1.02E+00	1.12E+00	1.22E+00	1.31E+00	1.39E+00	1.44E+00	1.45E+00	1.41E+00	1.35E+00	1.29E+00	1.21E+00
9	X/Q (SRC 9)	1.82E+00	2.19E+00	2.69E+00	3.37E+00	4.23E+00	5.26E+00	6.23E+00	6.90E+00	7.41E+00	7.79E+00	7.78E+00	7.47E+00	6.87E+00	6.01E+00	5.16E+00	4.40E+00	3.77E+00	3.29E+00	2.87E+00
10	X/Q (SRC 10)	6.62E+00	9.68E+00	1.44E+01	2.21E+01	3.10E+01	3.58E+01	3.00E+01	2.24E+01	1.69E+01	1.27E+01	9.55E+00	7.28E+00	5.70E+00	4.56E+00	3.74E+00	3.11E+00	2.62E+00	2.26E+00	1.95E+00
11	X/Q (SRC 11)	7.74E-01	8.30E-01	9.14E-01	1.02E+00	1.12E+00	1.19E+00	1.29E+00	1.41E+00	1.53E+00	1.66E+00	1.80E+00	1.99E+00	2.22E+00	2.38E+00	2.49E+00	2.46E+00	2.34E+00	2.22E+00	2.07E+00
12	X/Q (SRC 12)	2.07E+00	2.37E+00	2.69E+00	2.96E+00	3.29E+00	3.81E+00	4.23E+00	4.31E+00	4.14E+00	3.89E+00	3.54E+00	3.19E+00	2.89E+00	2.62E+00	2.42E+00	2.22E+00	2.04E+00	1.88E+00	1.72E+00
13	X/Q (SRC 13)	1.83E+00	2.21E+00	2.71E+00	3.38E+00	4.23E+00	5.25E+00	6.20E+00	6.87E+00	7.37E+00	7.74E+00	7.73E+00	7.42E+00	6.81E+00	5.95E+00	5.11E+00	4.36E+00	3.73E+00	3.26E+00	2.84E+00
14	X/Q (SRC 14)	1.83E+00	2.20E+00	2.70E+00	3.36E+00	4.21E+00	5.22E+00	6.17E+00	6.83E+00	7.32E+00	7.69E+00	7.67E+00	7.35E+00	6.75E+00	5.90E+00	5.07E+00	4.33E+00	3.71E+00	3.24E+00	2.83E+00
15	X/Q (SRC 15)	2.11E+00	2.51E+00	3.13E+00	4.10E+00	5.58E+00	7.81E+00	1.11E+01	1.55E+01	1.99E+01	2.28E+01	2.36E+01	2.23E+01	1.91E+01	1.51E+01	1.17E+01	9.07E+00	7.07E+00	5.58E+00	4.48E+00
16	X/Q (SRC 16)	1.82E+00	2.19E+00	2.69E+00	3.37E+00	4.23E+00	5.26E+00	6.23E+00	6.90E+00	7.41E+00	7.79E+00	7.78E+00	7.47E+00	6.87E+00	6.01E+00	5.16E+00	4.40E+00	3.77E+00	3.29E+00	2.87E+00
17	X/Q (SRC 17)	1.46E+00	1.64E+00	1.84E+00	2.07E+00	2.34E+00	2.61E+00	2.87E+00	3.17E+00	3.56E+00	3.90E+00	3.97E+00	3.83E+00	3.59E+00	3.28E+00	2.99E+00	2.72E+00	2.49E+00	2.31E+00	2.14E+00
18	X/Q (SRC 18)	1.82E+00	2.19E+00	2.69E+00	3.37E+00	4.23E+00	5.26E+00	6.23E+00	6.90E+00	7.41E+00	7.79E+00	7.78E+00	7.47E+00	6.87E+00	6.01E+00	5.16E+00	4.40E+00	3.77E+00	3.29E+00	2.87E+00
19	X/Q (SRC 19)	2.08E+00	2.63E+00	3.50E+00	4.89E+00	6.94E+00	9.37E+00	1.14E+01	1.27E+01	1.38E+01	1.47E+01	1.48E+01	1.42E+01	1.30E+01	1.10E+01	8.96E+00	7.22E+00	5.86E+00	4.87E+00	4.08E+00
20	X/Q (SRC 20)	9.05E-01	1.01E+00	1.12E+00	1.25E+00	1.40E+00	1.58E+00	1.76E+00	1.97E+00	2.23E+00	2.52E+00	2.77E+00	3.10E+00	3.49E+00	3.74E+00	3.78E+00	3.61E+00	3.34E+00	3.10E+00	2.82E+00
21	X/Q (SRC 21)	4.87E-01	5.14E-01	5.44E-01	5.77E-01	6.13E-01	6.50E-01	6.92E-01	7.39E-01	7.89E-01	8.32E-01	8.71E-01	9.16E-01	9.88E-01	1.08E+00	1.17E+00	1.25E+00	1.29E+00	1.29E+00	1.27E+00
22	X/Q (SRC 22)	2.13E+00	2.47E+00	2.88E+00	3.40E+00	3.90E+00	4.41E+00	5.10E+00	5.65E+00	5.72E+00	5.39E+00	4.90E+00	4.37E+00	3.90E+00	3.50E+00	3.16E+00	2.85E+00	2.56E+00	2.30E+00	2.05E+00
23	X/Q (SRC 23)	1.31E+00	1.51E+00	1.73E+00	1.99E+00	2.32E+00	2.69E+00	3.17E+00	3.74E+00	4.23E+00	4.83E+00	5.50E+00	5.82E+00	5.66E+00	5.25E+00	4.72E+00	4.20E+00	3.75E+00	3.36E+00	3.03E+00
24	X/Q (SRC 24)	2.36E+00	2.93E+00	3.75E+00	4.88E+00	6.03E+00	6.79E+00	6.65E+00	5.99E+00	5.32E+00	4.75E+00	4.21E+00	3.76E+00	3.39E+00	3.07E+00	2.78E+00	2.51E+00	2.26E+00	2.06E+00	1.87E+00
25	X/Q (SRC 25)	1.83E+00	2.25E+00	2.79E+00	3.52E+00	4.52E+00	5.92E+00	7.51E+00	8.87E+00	9.10E+00	8.70E+00	8.13E+00	7.44E+00	6.72E+00	5.99E+00	5.26E+00	4.59E+00	3.99E+00	3.48E+00	3.05E+00
26	X/Q (SRC 26)	2.06E+00	2.37E+00	2.72E+00	3.02E+00	3.36E+00	3.84E+00	4.20E+00	4.26E+00	4.09E+00	3.87E+00	3.53E+00	3.20E+00	2.89E+00	2.61E+00	2.39E+00	2.19E+00	2.00E+00	1.84E+00	1.68E+00
27	X/Q (SRC 27)	1.82E+00	2.18E+00	2.67E+00	3.34E+00	4.21E+00	5.21E+00	6.16E+00	6.82E+00	7.32E+00	7.69E+00	7.66E+00	7.34E+00	6.74E+00	5.90E+00	5.07E+00	4.32E+00	3.70E+00	3.22E+00	2.81E+00
28	X/Q (SRC 28)	1.82E+00	2.18E+00	2.67E+00	3.34E+00	4.21E+00	5.21E+00	6.16E+00	6.82E+00	7.32E+00	7.69E+00	7.66E+00	7.34E+00	6.74E+00	5.90E+00	5.07E+00	4.32E+00	3.70E+00	3.22E+00	2.81E+00
29	X/Q (SRC 29)	2.09E+00	2.63E+00	3.46E+00	4.80E+00	6.80E+00	9.13E+00	1.11E+01	1.24E+01	1.34E+01	1.42E+01	1.44E+01	1.38E+01	1.27E+01	1.07E+01	8.73E+00	7.04E+00	5.71E+00	4.75E+00	3.98E+00
30	X/Q (SRC 30)	1.83E+00	2.19E+00	2.68E+00	3.34E+00	4.19E+00	5.18E+00	6.11E+00	6.75E+00	7.24E+00	7.59E+00	7.55E+00	7.22E+00	6.63E+00	5.80E+00	4.99E+00	4.25E+00	3.64E+00	3.18E+00	2.77E+00
31	X/Q (SRC 31)	1.56E+01	1.56E+01	1.51E+01	1.42E+01	1.30E+01	1.14E+01	9.64E+00	7.53E+00	5.64E+00	4.26E+00	3.30E+00	2.62E+00	2.15E+00	1.80E+00	1.53E+00	1.31E+00	1.15E+00	1.01E+00	9.00E-01
32	X/Q (SRC 32)	1.51E+01	2.07E+01	2.91E+01	4.09E+01	5.63E+01	7.49E+01	8.70E+01	8.60E+01	7.47E+01	6.11E+01	4.85E+01	3.85E+01	3.04E+01	2.40E+01	1.92E+01	1.56E+01	1.29E+01	1.10E+01	9.46E+00
33	X/Q (SRC 33)	1.91E+00	2.02E+00	2.31E+00	2.57E+00	2.81E+00	3.12E+00	3.60E+00	4.09E+00	4.32E+00	4.26E+00	3.93E+00	3.55E+00	3.14E+00	2.83E+00	2.65E+00	2.46E+00	2.26E+00	2.11E+00	1.95E+00
34	X/Q (SRC 34)	5.90E+00	8.18E+00	1.16E+01	1.62E+01	2.15E+01	2.63E+01	2.38E+01	1.88E+01	1.50E+01	1.20E+01	9.42E+00	7.35E+00	5.79E+00	4.64E+00	3.82E+00	3.20E+00	2.73E+00	2.36E+00	2.06E+00
35	X/Q (SRC 35)	9.64E-01	1.06E+00	1.14E+00	1.27E+00	1.51E+00	1.71E+00	1.77E+00	2.02E+00	2.20E+00	2.44E+00	2.66E+00	3.06E+00	3.51E+00	3.75E+00	3.76E+00	3.49E+00	3.19E+00	2.89E+00	2.59E+00

ASCON Health Risk

Supplemental HRA

	Rec	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454
1	X/Q (SRC 1)	1.89E+00	9.85E-01	1.12E+00	1.25E+00	1.38E+00	1.58E+00	1.83E+00	2.02E+00	2.30E+00	2.62E+00	2.89E+00	3.20E+00	3.68E+00	4.16E+00	4.37E+00	4.25E+00	3.95E+00	3.60E+00	3.24E+00
2	X/Q (SRC 2)	1.82E+00	5.73E-01	6.27E-01	6.74E-01	7.16E-01	7.64E-01	8.38E-01	9.35E-01	1.02E+00	1.08E+00	1.16E+00	1.28E+00	1.39E+00	1.47E+00	1.57E+00	1.71E+00	1.91E+00	2.10E+00	2.25E+00
3	X/Q (SRC 3)	2.90E+00	5.51E-01	5.97E-01	6.57E-01	7.38E-01	8.38E-01	9.50E-01	1.05E+00	1.15E+00	1.28E+00	1.47E+00	1.66E+00	1.81E+00	2.05E+00	2.29E+00	2.50E+00	2.75E+00	3.13E+00	3.54E+00
4	X/Q (SRC 4)	2.79E+00	6.48E-01	7.13E-01	8.01E-01	9.19E-01	1.06E+00	1.19E+00	1.32E+00	1.48E+00	1.72E+00	1.95E+00	2.18E+00	2.51E+00	2.80E+00	3.07E+00	3.48E+00	4.00E+00	4.37E+00	4.40E+00
5	X/Q (SRC 5)	1.73E+00	9.21E-01	1.05E+00	1.21E+00	1.41E+00	1.64E+00	1.93E+00	2.29E+00	2.74E+00	3.26E+00	3.80E+00	4.29E+00	4.57E+00	4.44E+00	4.13E+00	3.80E+00	3.48E+00	3.19E+00	2.94E+00
6	X/Q (SRC 6)	2.74E+00	8.01E-01	8.85E-01	9.98E-01	1.15E+00	1.36E+00	1.63E+00	1.94E+00	2.31E+00	2.77E+00	3.38E+00	4.09E+00	4.82E+00	5.67E+00	6.08E+00	6.10E+00	5.93E+00	5.63E+00	5.27E+00
7	X/Q (SRC 7)	2.57E+00	5.05E-01	5.49E-01	6.07E-01	6.80E-01	7.61E-01	8.40E-01	9.10E-01	9.83E-01	1.10E+00	1.24E+00	1.35E+00	1.47E+00	1.64E+00	1.82E+00	1.97E+00	2.13E+00	2.36E+00	2.67E+00
8	X/Q (SRC 8)	1.13E+00	2.33E-01	2.54E-01	2.78E-01	3.07E-01	3.39E-01	3.78E-01	4.24E-01	4.78E-01	5.35E-01	5.97E-01	6.55E-01	7.30E-01	7.93E-01	8.60E-01	9.34E-01	1.01E+00	1.07E+00	1.13E+00
9	X/Q (SRC 9)	2.52E+00	8.24E-01	9.16E-01	1.03E+00	1.17E+00	1.34E+00	1.55E+00	1.82E+00	2.15E+00	2.56E+00	3.04E+00	3.55E+00	4.18E+00	4.69E+00	5.07E+00	5.30E+00	5.38E+00	5.29E+00	5.05E+00
10	X/Q (SRC 10)	1.71E+00	1.68E+00	1.96E+00	2.37E+00	3.00E+00	3.95E+00	5.16E+00	6.85E+00	9.15E+00	1.23E+01	1.55E+01	1.82E+01	1.78E+01	1.51E+01	1.23E+01	1.01E+01	8.23E+00	6.67E+00	5.41E+00
11	X/Q (SRC 11)	1.91E+00	4.83E-01	5.31E-01	5.78E-01	6.18E-01	6.55E-01	6.94E-01	7.53E-01	8.31E-01	9.14E-01	9.67E-01	1.01E+00	1.11E+00	1.22E+00	1.30E+00	1.38E+00	1.47E+00	1.62E+00	1.79E+00
12	X/Q (SRC 12)	1.58E+00	1.01E+00	1.11E+00	1.24E+00	1.42E+00	1.56E+00	1.71E+00	1.94E+00	2.10E+00	2.30E+00	2.53E+00	2.82E+00	3.19E+00	3.42E+00	3.37E+00	3.19E+00	2.95E+00	2.70E+00	2.46E+00
13	X/Q (SRC 13)	2.50E+00	8.31E-01	9.23E-01	1.04E+00	1.18E+00	1.35E+00	1.56E+00	1.83E+00	2.16E+00	2.56E+00	3.04E+00	3.54E+00	4.17E+00	4.68E+00	5.05E+00	5.28E+00	5.35E+00	5.25E+00	5.01E+00
14	X/Q (SRC 14)	2.49E+00	8.30E-01	9.22E-01	1.04E+00	1.18E+00	1.35E+00	1.56E+00	1.82E+00	2.15E+00	2.55E+00	3.03E+00	3.53E+00	4.16E+00	4.66E+00	5.02E+00	5.24E+00	5.31E+00	5.21E+00	4.97E+00
15	X/Q (SRC 15)	3.67E+00	1.01E+00	1.09E+00	1.20E+00	1.34E+00	1.51E+00	1.77E+00	2.14E+00	2.66E+00	3.35E+00	4.31E+00	5.61E+00	7.23E+00	9.21E+00	1.14E+01	1.31E+01	1.39E+01	1.36E+01	1.25E+01
16	X/Q (SRC 16)	2.52E+00	8.24E-01	9.16E-01	1.03E+00	1.17E+00	1.34E+00	1.55E+00	1.82E+00	2.15E+00	2.56E+00	3.04E+00	3.55E+00	4.18E+00	4.69E+00	5.07E+00	5.30E+00	5.38E+00	5.29E+00	5.05E+00
17	X/Q (SRC 17)	1.99E+00	7.97E-01	8.74E-01	9.55E-01	1.04E+00	1.15E+00	1.27E+00	1.40E+00	1.54E+00	1.72E+00	1.91E+00	2.06E+00	2.26E+00	2.50E+00	2.79E+00	3.03E+00	3.15E+00	3.10E+00	2.96E+00
18	X/Q (SRC 18)	2.52E+00	8.24E-01	9.16E-01	1.03E+00	1.17E+00	1.34E+00	1.55E+00	1.82E+00	2.15E+00	2.56E+00	3.04E+00	3.55E+00	4.18E+00	4.69E+00	5.07E+00	5.30E+00	5.38E+00	5.29E+00	5.05E+00
19	X/Q (SRC 19)	3.45E+00	8.99E-01	9.83E-01	1.09E+00	1.24E+00	1.45E+00	1.74E+00	2.14E+00	2.68E+00	3.46E+00	4.46E+00	5.55E+00	6.80E+00	7.75E+00	8.45E+00	8.91E+00	9.11E+00	8.97E+00	8.64E+00
20	X/Q (SRC 20)	2.58E+00	5.17E-01	5.62E-01	6.18E-01	6.83E-01	7.57E-01	8.33E-01	9.08E-01	9.88E-01	1.09E+00	1.22E+00	1.33E+00	1.47E+00	1.65E+00	1.84E+00	2.01E+00	2.18E+00	2.41E+00	2.69E+00
21	X/Q (SRC 21)	1.23E+00	3.50E-01	3.69E-01	3.89E-01	4.09E-01	4.29E-01	4.50E-01	4.73E-01	5.00E-01	5.27E-01	5.55E-01	5.87E-01	6.20E-01	6.57E-01	6.94E-01	7.27E-01	7.57E-01	7.92E-01	8.48E-01
22	X/Q (SRC 22)	1.83E+00	9.82E-01	1.11E+00	1.24E+00	1.39E+00	1.57E+00	1.78E+00	2.01E+00	2.31E+00	2.64E+00	2.94E+00	3.27E+00	3.72E+00	4.14E+00	4.31E+00	4.18E+00	3.91E+00	3.58E+00	3.24E+00
23	X/Q (SRC 23)	2.72E+00	6.62E-01	7.29E-01	8.16E-01	9.24E-01	1.05E+00	1.18E+00	1.32E+00	1.49E+00	1.69E+00	1.91E+00	2.18E+00	2.51E+00	2.83E+00	3.13E+00	3.53E+00	4.01E+00	4.31E+00	4.32E+00
24	X/Q (SRC 24)	1.70E+00	9.29E-01	1.05E+00	1.21E+00	1.40E+00	1.62E+00	1.90E+00	2.26E+00	2.73E+00	3.28E+00	3.83E+00	4.27E+00	4.53E+00	4.40E+00	4.10E+00	3.77E+00	3.45E+00	3.15E+00	2.90E+00
25	X/Q (SRC 25)	2.68E+00	8.14E-01	9.02E-01	1.02E+00	1.17E+00	1.37E+00	1.62E+00	1.92E+00	2.29E+00	2.73E+00	3.33E+00	4.08E+00	4.85E+00	5.64E+00	6.03E+00	6.05E+00	5.89E+00	5.57E+00	5.20E+00
26	X/Q (SRC 26)	1.54E+00	1.01E+00	1.11E+00	1.24E+00	1.38E+00	1.54E+00	1.71E+00	1.94E+00	2.14E+00	2.35E+00	2.58E+00	2.85E+00	3.19E+00	3.38E+00	3.33E+00	3.16E+00	2.94E+00	2.70E+00	2.47E+00
27	X/Q (SRC 27)	2.47E+00	8.34E-01	9.25E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00	1.81E+00	2.14E+00	2.55E+00	3.04E+00	3.54E+00	4.17E+00	4.67E+00	5.04E+00	5.27E+00	5.34E+00	5.23E+00	4.98E+00
28	X/Q (SRC 28)	2.47E+00	8.34E-01	9.25E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00	1.81E+00	2.14E+00	2.55E+00	3.04E+00	3.54E+00	4.17E+00	4.67E+00	5.04E+00	5.27E+00	5.34E+00	5.23E+00	4.98E+00
29	X/Q (SRC 29)	3.36E+00	9.14E-01	1.00E+00	1.11E+00	1.26E+00	1.46E+00	1.74E+00	2.13E+00	2.67E+00	3.43E+00	4.42E+00	5.48E+00	6.71E+00	7.63E+00	8.31E+00	8.78E+00	8.99E+00	8.84E+00	8.47E+00
30	X/Q (SRC 30)	2.43E+00	8.40E-01	9.31E-01	1.04E+00	1.18E+00	1.35E+00	1.55E+00	1.81E+00	2.14E+00	2.55E+00	3.03E+00	3.53E+00	4.15E+00	4.64E+00	5.00E+00	5.21E+00	5.27E+00	5.16E+00	4.90E+00
31	X/Q (SRC 31)	8.07E-01	4.73E+00	6.12E+00	7.56E+00	8.60E+00	9.17E+00	9.49E+00	9.57E+00	9.47E+00	9.06E+00	8.46E+00	7.69E+00	6.75E+00	5.68E+00	4.64E+00	3.77E+00	3.08E+00	2.54E+00	2.12E+00
32	X/Q (SRC 32)	8.22E+00	4.94E+00	5.59E+00	6.51E+00	7.91E+00	9.99E+00	1.27E+01	1.64E+01	2.09E+01	2.69E+01	3.36E+01	4.09E+01	4.91E+01	5.22E+01	4.91E+01	4.24E+01	3.57E+01	3.02E+01	2.56E+01
33	X/Q (SRC 33)	1.81E+00	9.31E-01	9.95E-01	1.07E+00	1.23E+00	1.46E+00	1.56E+00	1.64E+00	1.87E+00	2.02E+00	2.20E+00	2.35E+00	2.73E+00	3.13E+00	3.37E+00	3.42E+00	3.22E+00	2.97E+00	2.70E+00
34	X/Q (SRC 34)	1.81E+00	1.52E+00	1.77E+00	2.15E+00	2.78E+00	3.60E+00	4.51E+00	5.98E+00	7.52E+00	9.50E+00	1.17E+01	1.43E+01	1.46E+01	1.28E+01	1.06E+01	8.97E+00	7.63E+00	6.44E+00	5.39E+00
35	X/Q (SRC 35)	2.42E+00	5.05E-01	5.48E-01	6.17E-01	7.13E-01	8.03E-01	8.64E-01	9.12E-01	9.91E-01	1.16E+00	1.34E+00	1.37E+00	1.47E+00	1.68E+00	1.78E+00	1.93E+00	2.08E+00	2.37E+00	2.69E+00

ASCON Health Risk

Supplemental HRA

	Rec	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473
1	X/Q (SRC 1)	2.93E+00	2.69E+00	2.49E+00	2.30E+00	2.12E+00	1.94E+00	1.78E+00	9.15E-01	9.98E-01	1.08E+00	1.21E+00	1.38E+00	1.53E+00	1.66E+00	1.88E+00	2.08E+00	2.26E+00	2.43E+00	2.79E+00
2	X/Q (SRC 2)	2.30E+00	2.25E+00	2.13E+00	2.01E+00	1.87E+00	1.72E+00	1.59E+00	5.46E-01	5.80E-01	6.09E-01	6.43E-01	6.94E-01	7.70E-01	8.40E-01	8.89E-01	9.33E-01	1.01E+00	1.09E+00	1.17E+00
3	X/Q (SRC 3)	3.79E+00	3.74E+00	3.51E+00	3.25E+00	2.95E+00	2.66E+00	2.44E+00	5.19E-01	5.69E-01	6.34E-01	7.11E-01	7.89E-01	8.62E-01	9.24E-01	1.01E+00	1.14E+00	1.29E+00	1.38E+00	1.51E+00
4	X/Q (SRC 4)	4.18E+00	3.85E+00	3.47E+00	3.11E+00	2.84E+00	2.62E+00	2.42E+00	6.10E-01	6.82E-01	7.73E-01	8.70E-01	9.58E-01	1.04E+00	1.14E+00	1.31E+00	1.48E+00	1.61E+00	1.79E+00	2.02E+00
5	X/Q (SRC 5)	2.70E+00	2.49E+00	2.29E+00	2.09E+00	1.90E+00	1.74E+00	1.60E+00	8.43E-01	9.50E-01	1.08E+00	1.22E+00	1.38E+00	1.58E+00	1.80E+00	2.09E+00	2.36E+00	2.64E+00	2.95E+00	3.29E+00
6	X/Q (SRC 6)	4.86E+00	4.39E+00	3.93E+00	3.51E+00	3.12E+00	2.78E+00	2.49E+00	7.29E-01	8.14E-01	9.30E-01	1.08E+00	1.25E+00	1.43E+00	1.63E+00	1.90E+00	2.21E+00	2.60E+00	2.94E+00	3.39E+00
7	X/Q (SRC 7)	2.92E+00	3.04E+00	3.00E+00	2.82E+00	2.62E+00	2.42E+00	2.21E+00	4.81E-01	5.29E-01	5.88E-01	6.51E-01	7.06E-01	7.54E-01	8.06E-01	8.80E-01	9.86E-01	1.08E+00	1.14E+00	1.25E+00
8	X/Q (SRC 8)	1.19E+00	1.20E+00	1.18E+00	1.16E+00	1.11E+00	1.06E+00	9.95E-01	2.30E-01	2.48E-01	2.71E-01	2.97E-01	3.25E-01	3.62E-01	3.99E-01	4.45E-01	4.92E-01	5.38E-01	5.76E-01	6.40E-01
9	X/Q (SRC 9)	4.62E+00	4.16E+00	3.69E+00	3.26E+00	2.88E+00	2.57E+00	2.30E+00	7.50E-01	8.29E-01	9.27E-01	1.04E+00	1.18E+00	1.34E+00	1.53E+00	1.76E+00	2.02E+00	2.30E+00	2.59E+00	3.03E+00
10	X/Q (SRC 10)	4.42E+00	3.66E+00	3.07E+00	2.62E+00	2.26E+00	1.98E+00	1.75E+00	1.46E+00	1.72E+00	2.12E+00	2.65E+00	3.22E+00	3.99E+00	4.98E+00	6.24E+00	7.68E+00	9.15E+00	1.06E+01	1.14E+01
11	X/Q (SRC 11)	1.93E+00	2.05E+00	2.09E+00	2.02E+00	1.91E+00	1.81E+00	1.69E+00	4.69E-01	5.05E-01	5.35E-01	5.62E-01	5.91E-01	6.32E-01	6.96E-01	7.59E-01	8.06E-01	8.34E-01	8.72E-01	9.68E-01
12	X/Q (SRC 12)	2.23E+00	2.08E+00	1.96E+00	1.82E+00	1.69E+00	1.58E+00	1.47E+00	8.87E-01	9.79E-01	1.11E+00	1.22E+00	1.30E+00	1.43E+00	1.60E+00	1.70E+00	1.82E+00	1.97E+00	2.17E+00	2.50E+00
13	X/Q (SRC 13)	4.58E+00	4.12E+00	3.65E+00	3.23E+00	2.86E+00	2.55E+00	2.28E+00	7.55E-01	8.35E-01	9.34E-01	1.05E+00	1.18E+00	1.35E+00	1.54E+00	1.77E+00	2.03E+00	2.31E+00	2.59E+00	3.03E+00
14	X/Q (SRC 14)	4.55E+00	4.09E+00	3.63E+00	3.21E+00	2.84E+00	2.54E+00	2.27E+00	7.55E-01	8.34E-01	9.33E-01	1.05E+00	1.18E+00	1.35E+00	1.54E+00	1.76E+00	2.02E+00	2.30E+00	2.58E+00	3.02E+00
15	X/Q (SRC 15)	1.08E+01	9.00E+00	7.46E+00	6.20E+00	5.13E+00	4.26E+00	3.55E+00	8.63E-01	9.41E-01	1.04E+00	1.16E+00	1.33E+00	1.57E+00	1.88E+00	2.28E+00	2.78E+00	3.39E+00	4.10E+00	5.05E+00
16	X/Q (SRC 16)	4.62E+00	4.16E+00	3.69E+00	3.26E+00	2.88E+00	2.57E+00	2.30E+00	7.50E-01	8.29E-01	9.27E-01	1.04E+00	1.18E+00	1.34E+00	1.53E+00	1.76E+00	2.02E+00	2.30E+00	2.59E+00	3.03E+00
17	X/Q (SRC 17)	2.76E+00	2.56E+00	2.36E+00	2.17E+00	2.01E+00	1.89E+00	1.77E+00	7.35E-01	7.91E-01	8.55E-01	9.32E-01	1.02E+00	1.11E+00	1.21E+00	1.31E+00	1.45E+00	1.58E+00	1.67E+00	1.83E+00
18	X/Q (SRC 18)	4.62E+00	4.16E+00	3.69E+00	3.26E+00	2.88E+00	2.57E+00	2.30E+00	7.50E-01	8.29E-01	9.27E-01	1.04E+00	1.18E+00	1.34E+00	1.53E+00	1.76E+00	2.02E+00	2.30E+00	2.59E+00	3.03E+00
19	X/Q (SRC 19)	7.85E+00	6.88E+00	5.90E+00	5.03E+00	4.27E+00	3.67E+00	3.16E+00	7.77E-01	8.55E-01	9.59E-01	1.10E+00	1.27E+00	1.50E+00	1.78E+00	2.16E+00	2.63E+00	3.18E+00	3.74E+00	4.55E+00
20	X/Q (SRC 20)	2.91E+00	3.01E+00	2.96E+00	2.80E+00	2.60E+00	2.42E+00	2.23E+00	4.92E-01	5.36E-01	5.89E-01	6.45E-01	6.99E-01	7.54E-01	8.11E-01	8.81E-01	9.69E-01	1.06E+00	1.13E+00	1.25E+00
21	X/Q (SRC 21)	9.24E-01	9.99E-01	1.06E+00	1.11E+00	1.13E+00	1.12E+00	1.09E+00	3.34E-01	3.51E-01	3.67E-01	3.83E-01	3.99E-01	4.18E-01	4.38E-01	4.61E-01	4.83E-01	5.06E-01	5.30E-01	5.60E-01
22	X/Q (SRC 22)	2.94E+00	2.68E+00	2.46E+00	2.26E+00	2.07E+00	1.90E+00	1.73E+00	9.05E-01	9.95E-01	1.09E+00	1.21E+00	1.35E+00	1.50E+00	1.66E+00	1.89E+00	2.11E+00	2.30E+00	2.49E+00	2.83E+00
23	X/Q (SRC 23)	4.14E+00	3.82E+00	3.46E+00	3.12E+00	2.84E+00	2.59E+00	2.38E+00	6.25E-01	6.93E-01	7.74E-01	8.60E-01	9.47E-01	1.04E+00	1.15E+00	1.29E+00	1.44E+00	1.60E+00	1.80E+00	2.03E+00
24	X/Q (SRC 24)	2.67E+00	2.46E+00	2.25E+00	2.06E+00	1.88E+00	1.72E+00	1.58E+00	8.48E-01	9.50E-01	1.07E+00	1.21E+00	1.37E+00	1.56E+00	1.80E+00	2.10E+00	2.39E+00	2.68E+00	2.96E+00	3.28E+00
25	X/Q (SRC 25)	4.80E+00	4.33E+00	3.87E+00	3.45E+00	3.07E+00	2.74E+00	2.44E+00	7.45E-01	8.32E-01	9.43E-01	1.08E+00	1.23E+00	1.42E+00	1.62E+00	1.88E+00	2.18E+00	2.57E+00	2.96E+00	3.43E+00
26	X/Q (SRC 26)	2.24E+00	2.08E+00	1.94E+00	1.80E+00	1.67E+00	1.55E+00	1.44E+00	8.93E-01	9.77E-01	1.08E+00	1.20E+00	1.30E+00	1.44E+00	1.61E+00	1.74E+00	1.86E+00	2.02E+00	2.19E+00	2.51E+00
27	X/Q (SRC 27)	4.57E+00	4.10E+00	3.64E+00	3.22E+00	2.84E+00	2.53E+00	2.26E+00	7.57E-01	8.35E-01	9.31E-01	1.04E+00	1.17E+00	1.34E+00	1.52E+00	1.75E+00	2.02E+00	2.31E+00	2.60E+00	3.04E+00
28	X/Q (SRC 28)	4.57E+00	4.10E+00	3.64E+00	3.22E+00	2.84E+00	2.53E+00	2.26E+00	7.57E-01	8.35E-01	9.31E-01	1.04E+00	1.17E+00	1.34E+00	1.52E+00	1.75E+00	2.02E+00	2.31E+00	2.60E+00	3.04E+00
29	X/Q (SRC 29)	7.70E+00	6.75E+00	5.78E+00	4.92E+00	4.18E+00	3.59E+00	3.10E+00	7.90E-01	8.68E-01	9.72E-01	1.11E+00	1.27E+00	1.50E+00	1.78E+00	2.15E+00	2.62E+00	3.16E+00	3.72E+00	4.52E+00
30	X/Q (SRC 30)	4.50E+00	4.04E+00	3.58E+00	3.17E+00	2.80E+00	2.50E+00	2.23E+00	7.62E-01	8.40E-01	9.37E-01	1.05E+00	1.18E+00	1.34E+00	1.53E+00	1.76E+00	2.02E+00	2.31E+00	2.59E+00	3.03E+00
31	X/Q (SRC 31)	1.81E+00	1.55E+00	1.34E+00	1.18E+00	1.05E+00	9.37E-01	8.43E-01	3.36E+00	4.12E+00	4.95E+00	5.62E+00	6.04E+00	6.34E+00	6.43E+00	6.42E+00	6.26E+00	5.96E+00	5.46E+00	5.01E+00
32	X/Q (SRC 32)	2.15E+01	1.80E+01	1.51E+01	1.26E+01	1.07E+01	9.19E+00	8.02E+00	4.29E+00	4.92E+00	5.88E+00	7.19E+00	8.69E+00	1.06E+01	1.29E+01	1.56E+01	1.87E+01	2.20E+01	2.55E+01	3.09E+01
33	X/Q (SRC 33)	2.39E+00	2.21E+00	2.10E+00	1.98E+00	1.84E+00	1.73E+00	1.63E+00	8.12E-01	8.58E-01	9.63E-01	1.14E+00	1.25E+00	1.27E+00	1.39E+00	1.54E+00	1.63E+00	1.75E+00	1.85E+00	2.15E+00
34	X/Q (SRC 34)	4.47E+00	3.71E+00	3.11E+00	2.65E+00	2.29E+00	2.01E+00	1.78E+00	1.34E+00	1.60E+00	2.01E+00	2.44E+00	2.86E+00	3.63E+00	4.33E+00	5.25E+00	6.17E+00	7.25E+00	8.61E+00	9.62E+00
35	X/Q (SRC 35)	2.92E+00	3.01E+00	2.92E+00	2.71E+00	2.49E+00	2.25E+00	2.05E+00	4.81E-01	5.42E-01	6.18E-01	6.82E-01	7.21E-01	7.52E-01	8.05E-01	9.20E-01	1.07E+00	1.13E+00	1.12E+00	1.27E+00

ASCON Health Risk

Supplemental HRA

	Rec	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492
1	X/Q (SRC 1)	3.15E+00	3.38E+00	3.39E+00	3.22E+00	3.00E+00	2.74E+00	2.49E+00	2.28E+00	2.13E+00	1.99E+00	1.86E+00	1.74E+00	1.62E+00	8.19E-01	8.77E-01	9.64E-01	1.09E+00	1.20E+00	1.28E+00
2	X/Q (SRC 2)	1.24E+00	1.31E+00	1.42E+00	1.57E+00	1.72E+00	1.85E+00	1.92E+00	1.91E+00	1.84E+00	1.75E+00	1.65E+00	1.54E+00	1.42E+00	5.06E-01	5.27E-01	5.52E-01	5.90E-01	6.45E-01	7.08E-01
3	X/Q (SRC 3)	1.69E+00	1.85E+00	1.99E+00	2.16E+00	2.43E+00	2.72E+00	2.96E+00	3.00E+00	2.89E+00	2.71E+00	2.51E+00	2.30E+00	2.10E+00	5.00E-01	5.54E-01	6.15E-01	6.72E-01	7.18E-01	7.65E-01
4	X/Q (SRC 4)	2.20E+00	2.38E+00	2.66E+00	3.03E+00	3.35E+00	3.45E+00	3.37E+00	3.15E+00	2.91E+00	2.65E+00	2.40E+00	2.22E+00	2.08E+00	5.90E-01	6.63E-01	7.35E-01	7.95E-01	8.46E-01	9.18E-01
5	X/Q (SRC 5)	3.32E+00	3.21E+00	3.02E+00	2.83E+00	2.66E+00	2.49E+00	2.33E+00	2.18E+00	2.03E+00	1.88E+00	1.73E+00	1.60E+00	1.48E+00	7.77E-01	8.59E-01	9.53E-01	1.06E+00	1.18E+00	1.31E+00
6	X/Q (SRC 6)	3.92E+00	4.30E+00	4.44E+00	4.44E+00	4.32E+00	4.12E+00	3.89E+00	3.61E+00	3.30E+00	3.00E+00	2.72E+00	2.47E+00	2.24E+00	6.83E-01	7.73E-01	8.82E-01	9.96E-01	1.10E+00	1.23E+00
7	X/Q (SRC 7)	1.38E+00	1.50E+00	1.60E+00	1.71E+00	1.89E+00	2.11E+00	2.33E+00	2.45E+00	2.47E+00	2.38E+00	2.25E+00	2.10E+00	1.94E+00	4.69E-01	5.15E-01	5.62E-01	6.05E-01	6.38E-01	6.74E-01
8	X/Q (SRC 8)	6.87E-01	7.44E-01	8.01E-01	8.60E-01	9.14E-01	9.49E-01	9.93E-01	1.01E+00	1.00E+00	9.87E-01	9.58E-01	9.21E-01	8.77E-01	2.24E-01	2.41E-01	2.62E-01	2.87E-01	3.12E-01	3.45E-01
9	X/Q (SRC 9)	3.38E+00	3.65E+00	3.85E+00	3.94E+00	3.95E+00	3.85E+00	3.65E+00	3.37E+00	3.07E+00	2.78E+00	2.51E+00	2.27E+00	2.06E+00	6.91E-01	7.59E-01	8.41E-01	9.37E-01	1.04E+00	1.17E+00
10	X/Q (SRC 10)	1.04E+01	8.96E+00	7.61E+00	6.55E+00	5.65E+00	4.84E+00	4.12E+00	3.50E+00	2.98E+00	2.56E+00	2.22E+00	1.94E+00	1.72E+00	1.33E+00	1.58E+00	1.90E+00	2.22E+00	2.61E+00	3.17E+00
11	X/Q (SRC 11)	1.04E+00	1.10E+00	1.15E+00	1.22E+00	1.33E+00	1.48E+00	1.60E+00	1.71E+00	1.76E+00	1.74E+00	1.67E+00	1.59E+00	1.51E+00	4.48E-01	4.68E-01	4.87E-01	5.10E-01	5.43E-01	5.88E-01
12	X/Q (SRC 12)	2.71E+00	2.72E+00	2.63E+00	2.47E+00	2.30E+00	2.13E+00	1.94E+00	1.80E+00	1.70E+00	1.61E+00	1.52E+00	1.43E+00	1.35E+00	7.98E-01	8.89E-01	9.80E-01	1.04E+00	1.11E+00	1.22E+00
13	X/Q (SRC 13)	3.37E+00	3.65E+00	3.83E+00	3.92E+00	3.93E+00	3.82E+00	3.62E+00	3.34E+00	3.04E+00	2.75E+00	2.49E+00	2.26E+00	2.05E+00	6.95E-01	7.64E-01	8.46E-01	9.42E-01	1.05E+00	1.17E+00
14	X/Q (SRC 14)	3.36E+00	3.63E+00	3.81E+00	3.90E+00	3.90E+00	3.80E+00	3.60E+00	3.32E+00	3.02E+00	2.74E+00	2.48E+00	2.25E+00	2.04E+00	6.95E-01	7.63E-01	8.45E-01	9.41E-01	1.05E+00	1.17E+00
15	X/Q (SRC 15)	6.11E+00	7.32E+00	8.37E+00	9.00E+00	9.14E+00	8.69E+00	7.87E+00	6.87E+00	5.95E+00	5.15E+00	4.47E+00	3.86E+00	3.33E+00	7.65E-01	8.37E-01	9.30E-01	1.05E+00	1.21E+00	1.42E+00
16	X/Q (SRC 16)	3.38E+00	3.65E+00	3.85E+00	3.94E+00	3.95E+00	3.85E+00	3.65E+00	3.37E+00	3.07E+00	2.78E+00	2.51E+00	2.27E+00	2.06E+00	6.91E-01	7.59E-01	8.41E-01	9.37E-01	1.04E+00	1.17E+00
17	X/Q (SRC 17)	2.00E+00	2.22E+00	2.42E+00	2.55E+00	2.56E+00	2.48E+00	2.36E+00	2.21E+00	2.06E+00	1.91E+00	1.78E+00	1.66E+00	1.57E+00	6.72E-01	7.15E-01	7.70E-01	8.39E-01	9.08E-01	9.76E-01
18	X/Q (SRC 18)	3.38E+00	3.65E+00	3.85E+00	3.94E+00	3.95E+00	3.85E+00	3.65E+00	3.37E+00	3.07E+00	2.78E+00	2.51E+00	2.27E+00	2.06E+00	6.91E-01	7.59E-01	8.41E-01	9.37E-01	1.04E+00	1.17E+00
19	X/Q (SRC 19)	5.15E+00	5.62E+00	5.96E+00	6.12E+00	6.15E+00	6.08E+00	5.80E+00	5.31E+00	4.75E+00	4.19E+00	3.68E+00	3.24E+00	2.85E+00	6.99E-01	7.72E-01	8.68E-01	9.88E-01	1.13E+00	1.30E+00
20	X/Q (SRC 20)	1.39E+00	1.52E+00	1.64E+00	1.75E+00	1.92E+00	2.13E+00	2.33E+00	2.43E+00	2.44E+00	2.36E+00	2.23E+00	2.09E+00	1.94E+00	4.74E-01	5.14E-01	5.56E-01	6.00E-01	6.38E-01	6.79E-01
21	X/Q (SRC 21)	5.90E-01	6.20E-01	6.45E-01	6.69E-01	6.98E-01	7.40E-01	8.01E-01	8.64E-01	9.23E-01	9.68E-01	9.91E-01	9.93E-01	9.78E-01	3.18E-01	3.32E-01	3.46E-01	3.59E-01	3.73E-01	3.90E-01
22	X/Q (SRC 22)	3.15E+00	3.35E+00	3.34E+00	3.19E+00	2.98E+00	2.73E+00	2.51E+00	2.30E+00	2.12E+00	1.97E+00	1.84E+00	1.71E+00	1.59E+00	8.17E-01	8.84E-01	9.66E-01	1.07E+00	1.17E+00	1.28E+00
23	X/Q (SRC 23)	2.23E+00	2.43E+00	2.71E+00	3.05E+00	3.33E+00	3.39E+00	3.32E+00	3.13E+00	2.89E+00	2.65E+00	2.42E+00	2.23E+00	2.06E+00	5.97E-01	6.61E-01	7.27E-01	7.87E-01	8.46E-01	9.25E-01
24	X/Q (SRC 24)	3.30E+00	3.19E+00	3.01E+00	2.82E+00	2.64E+00	2.47E+00	2.31E+00	2.16E+00	2.00E+00	1.85E+00	1.71E+00	1.58E+00	1.46E+00	7.76E-01	8.54E-01	9.45E-01	1.05E+00	1.17E+00	1.30E+00
25	X/Q (SRC 25)	3.93E+00	4.29E+00	4.43E+00	4.42E+00	4.30E+00	4.08E+00	3.86E+00	3.57E+00	3.26E+00	2.96E+00	2.68E+00	2.43E+00	2.20E+00	6.97E-01	7.82E-01	8.81E-01	9.86E-01	1.10E+00	1.23E+00
26	X/Q (SRC 26)	2.69E+00	2.69E+00	2.60E+00	2.45E+00	2.29E+00	2.13E+00	1.96E+00	1.81E+00	1.70E+00	1.60E+00	1.50E+00	1.41E+00	1.33E+00	8.01E-01	8.73E-01	9.53E-01	1.03E+00	1.12E+00	1.22E+00
27	X/Q (SRC 27)	3.38E+00	3.66E+00	3.85E+00	3.94E+00	3.93E+00	3.82E+00	3.62E+00	3.34E+00	3.04E+00	2.75E+00	2.48E+00	2.25E+00	2.04E+00	6.96E-01	7.62E-01	8.41E-01	9.36E-01	1.04E+00	1.16E+00
28	X/Q (SRC 28)	3.38E+00	3.66E+00	3.85E+00	3.94E+00	3.93E+00	3.82E+00	3.62E+00	3.34E+00	3.04E+00	2.75E+00	2.48E+00	2.25E+00	2.04E+00	6.96E-01	7.62E-01	8.41E-01	9.36E-01	1.04E+00	1.16E+00
29	X/Q (SRC 29)	5.11E+00	5.59E+00	5.94E+00	6.11E+00	6.13E+00	6.01E+00	5.72E+00	5.23E+00	4.67E+00	4.12E+00	3.62E+00	3.18E+00	2.80E+00	7.10E-01	7.83E-01	8.77E-01	9.95E-01	1.13E+00	1.31E+00
30	X/Q (SRC 30)	3.36E+00	3.63E+00	3.81E+00	3.90E+00	3.89E+00	3.77E+00	3.57E+00	3.29E+00	3.00E+00	2.71E+00	2.45E+00	2.22E+00	2.01E+00	7.00E-01	7.66E-01	8.45E-01	9.39E-01	1.04E+00	1.16E+00
31	X/Q (SRC 31)	4.42E+00	3.82E+00	3.25E+00	2.77E+00	2.36E+00	2.02E+00	1.75E+00	1.52E+00	1.34E+00	1.18E+00	1.05E+00	9.47E-01	8.56E-01	2.52E+00	2.98E+00	3.49E+00	3.95E+00	4.27E+00	4.50E+00
32	X/Q (SRC 32)	3.39E+01	3.36E+01	3.06E+01	2.67E+01	2.32E+01	2.04E+01	1.80E+01	1.58E+01	1.38E+01	1.20E+01	1.04E+01	8.97E+00	7.82E+00	3.91E+00	4.57E+00	5.44E+00	6.38E+00	7.39E+00	8.76E+00
33	X/Q (SRC 33)	2.43E+00	2.66E+00	2.75E+00	2.68E+00	2.51E+00	2.33E+00	2.11E+00	1.90E+00	1.78E+00	1.71E+00	1.63E+00	1.54E+00	1.45E+00	7.11E-01	7.77E-01	9.02E-01	1.03E+00	1.05E+00	1.06E+00
34	X/Q (SRC 34)	8.99E+00	7.87E+00	6.71E+00	5.91E+00	5.23E+00	4.59E+00	4.03E+00	3.50E+00	3.02E+00	2.59E+00	2.24E+00	1.95E+00	1.73E+00	1.25E+00	1.52E+00	1.77E+00	2.00E+00	2.41E+00	2.90E+00
35	X/Q (SRC 35)	1.39E+00	1.47E+00	1.57E+00	1.67E+00	1.89E+00	2.11E+00	2.34E+00	2.43E+00	2.45E+00	2.31E+00	2.15E+00	1.99E+00	1.81E+00	4.84E-01	5.42E-01	5.86E-01	6.14E-01	6.34E-01	6.70E-01

ASCON Health Risk

Supplemental HRA

	Rec	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511
1	X/Q (SRC 1)	1.40E+00	1.56E+00	1.69E+00	1.81E+00	1.95E+00	2.19E+00	2.45E+00	2.67E+00	2.74E+00	2.67E+00	2.52E+00	2.35E+00	2.17E+00	1.98E+00	1.83E+00	1.72E+00	1.63E+00	1.54E+00	1.45E+00
2	X/Q (SRC 2)	7.50E-01	7.76E-01	8.18E-01	8.88E-01	9.51E-01	1.00E+00	1.05E+00	1.10E+00	1.19E+00	1.31E+00	1.43E+00	1.54E+00	1.62E+00	1.64E+00	1.60E+00	1.53E+00	1.46E+00	1.38E+00	1.29E+00
3	X/Q (SRC 3)	8.23E-01	9.16E-01	1.03E+00	1.11E+00	1.17E+00	1.28E+00	1.42E+00	1.52E+00	1.62E+00	1.74E+00	1.94E+00	2.16E+00	2.36E+00	2.45E+00	2.41E+00	2.29E+00	2.15E+00	2.01E+00	1.84E+00
4	X/Q (SRC 4)	1.03E+00	1.16E+00	1.26E+00	1.34E+00	1.50E+00	1.65E+00	1.77E+00	1.89E+00	2.09E+00	2.36E+00	2.62E+00	2.75E+00	2.75E+00	2.63E+00	2.46E+00	2.29E+00	2.09E+00	1.92E+00	1.79E+00
5	X/Q (SRC 5)	1.47E+00	1.66E+00	1.82E+00	2.00E+00	2.25E+00	2.47E+00	2.56E+00	2.55E+00	2.46E+00	2.33E+00	2.22E+00	2.11E+00	2.01E+00	1.90E+00	1.79E+00	1.68E+00	1.57E+00	1.46E+00	1.36E+00
6	X/Q (SRC 6)	1.39E+00	1.59E+00	1.80E+00	2.04E+00	2.26E+00	2.54E+00	2.88E+00	3.18E+00	3.35E+00	3.41E+00	3.39E+00	3.29E+00	3.15E+00	2.97E+00	2.77E+00	2.56E+00	2.36E+00	2.17E+00	2.00E+00
7	X/Q (SRC 7)	7.28E-01	8.06E-01	8.89E-01	9.45E-01	9.91E-01	1.08E+00	1.18E+00	1.26E+00	1.33E+00	1.40E+00	1.53E+00	1.71E+00	1.88E+00	2.01E+00	2.06E+00	2.02E+00	1.93E+00	1.82E+00	1.71E+00
8	X/Q (SRC 8)	3.77E-01	4.13E-01	4.50E-01	4.87E-01	5.23E-01	5.63E-01	6.04E-01	6.44E-01	6.90E-01	7.33E-01	7.78E-01	8.07E-01	8.40E-01	8.57E-01	8.60E-01	8.53E-01	8.33E-01	8.07E-01	7.77E-01
9	X/Q (SRC 9)	1.31E+00	1.47E+00	1.64E+00	1.83E+00	2.06E+00	2.31E+00	2.55E+00	2.76E+00	2.92E+00	3.01E+00	3.06E+00	3.03E+00	2.93E+00	2.77E+00	2.57E+00	2.36E+00	2.17E+00	2.00E+00	1.84E+00
10	X/Q (SRC 10)	3.72E+00	4.49E+00	5.22E+00	6.04E+00	7.16E+00	7.78E+00	7.46E+00	6.74E+00	5.90E+00	5.15E+00	4.58E+00	4.08E+00	3.62E+00	3.20E+00	2.81E+00	2.46E+00	2.16E+00	1.90E+00	1.68E+00
11	X/Q (SRC 11)	6.44E-01	6.87E-01	7.10E-01	7.36E-01	7.92E-01	8.53E-01	8.99E-01	9.46E-01	9.84E-01	1.03E+00	1.12E+00	1.24E+00	1.35E+00	1.44E+00	1.50E+00	1.50E+00	1.47E+00	1.41E+00	1.35E+00
12	X/Q (SRC 12)	1.33E+00	1.41E+00	1.49E+00	1.61E+00	1.81E+00	2.00E+00	2.17E+00	2.25E+00	2.21E+00	2.10E+00	1.98E+00	1.87E+00	1.72E+00	1.59E+00	1.49E+00	1.41E+00	1.35E+00	1.29E+00	1.22E+00
13	X/Q (SRC 13)	1.31E+00	1.47E+00	1.65E+00	1.84E+00	2.06E+00	2.31E+00	2.55E+00	2.76E+00	2.91E+00	2.99E+00	3.04E+00	3.01E+00	2.91E+00	2.74E+00	2.55E+00	2.35E+00	2.16E+00	1.98E+00	1.83E+00
14	X/Q (SRC 14)	1.31E+00	1.47E+00	1.64E+00	1.83E+00	2.05E+00	2.30E+00	2.54E+00	2.75E+00	2.90E+00	2.98E+00	3.03E+00	3.00E+00	2.90E+00	2.73E+00	2.53E+00	2.33E+00	2.15E+00	1.97E+00	1.82E+00
15	X/Q (SRC 15)	1.66E+00	1.95E+00	2.30E+00	2.69E+00	3.17E+00	3.72E+00	4.33E+00	5.04E+00	5.73E+00	6.21E+00	6.44E+00	6.33E+00	5.92E+00	5.33E+00	4.75E+00	4.21E+00	3.76E+00	3.36E+00	2.99E+00
16	X/Q (SRC 16)	1.31E+00	1.47E+00	1.64E+00	1.83E+00	2.06E+00	2.31E+00	2.55E+00	2.76E+00	2.92E+00	3.01E+00	3.06E+00	3.03E+00	2.93E+00	2.77E+00	2.57E+00	2.36E+00	2.17E+00	2.00E+00	1.84E+00
17	X/Q (SRC 17)	1.05E+00	1.14E+00	1.24E+00	1.34E+00	1.42E+00	1.51E+00	1.64E+00	1.80E+00	1.97E+00	2.08E+00	2.13E+00	2.10E+00	2.02E+00	1.92E+00	1.81E+00	1.69E+00	1.58E+00	1.48E+00	1.40E+00
18	X/Q (SRC 18)	1.31E+00	1.47E+00	1.64E+00	1.83E+00	2.06E+00	2.31E+00	2.55E+00	2.76E+00	2.92E+00	3.01E+00	3.06E+00	3.03E+00	2.93E+00	2.77E+00	2.57E+00	2.36E+00	2.17E+00	2.00E+00	1.84E+00
19	X/Q (SRC 19)	1.52E+00	1.78E+00	2.09E+00	2.43E+00	2.83E+00	3.27E+00	3.67E+00	4.00E+00	4.25E+00	4.36E+00	4.44E+00	4.47E+00	4.39E+00	4.16E+00	3.83E+00	3.48E+00	3.14E+00	2.82E+00	2.53E+00
20	X/Q (SRC 20)	7.32E-01	7.96E-01	8.66E-01	9.30E-01	9.96E-01	1.08E+00	1.19E+00	1.28E+00	1.36E+00	1.44E+00	1.57E+00	1.73E+00	1.89E+00	2.01E+00	2.04E+00	1.99E+00	1.91E+00	1.81E+00	1.71E+00
21	X/Q (SRC 21)	4.08E-01	4.26E-01	4.44E-01	4.62E-01	4.83E-01	5.09E-01	5.34E-01	5.56E-01	5.76E-01	5.95E-01	6.19E-01	6.55E-01	7.04E-01	7.56E-01	8.07E-01	8.51E-01	8.77E-01	8.86E-01	8.80E-01
22	X/Q (SRC 22)	1.41E+00	1.57E+00	1.72E+00	1.84E+00	2.00E+00	2.22E+00	2.47E+00	2.65E+00	2.70E+00	2.63E+00	2.50E+00	2.33E+00	2.17E+00	2.00E+00	1.85E+00	1.73E+00	1.62E+00	1.52E+00	1.43E+00
23	X/Q (SRC 23)	1.02E+00	1.13E+00	1.23E+00	1.35E+00	1.50E+00	1.66E+00	1.81E+00	1.94E+00	2.13E+00	2.39E+00	2.62E+00	2.72E+00	2.71E+00	2.60E+00	2.44E+00	2.28E+00	2.10E+00	1.93E+00	1.80E+00
24	X/Q (SRC 24)	1.47E+00	1.67E+00	1.84E+00	2.03E+00	2.27E+00	2.47E+00	2.56E+00	2.53E+00	2.45E+00	2.33E+00	2.22E+00	2.10E+00	1.99E+00	1.88E+00	1.77E+00	1.66E+00	1.55E+00	1.45E+00	1.35E+00
25	X/Q (SRC 25)	1.38E+00	1.57E+00	1.78E+00	2.03E+00	2.28E+00	2.57E+00	2.91E+00	3.18E+00	3.35E+00	3.40E+00	3.38E+00	3.27E+00	3.13E+00	2.95E+00	2.75E+00	2.54E+00	2.34E+00	2.15E+00	1.97E+00
26	X/Q (SRC 26)	1.35E+00	1.44E+00	1.53E+00	1.65E+00	1.84E+00	2.02E+00	2.16E+00	2.23E+00	2.18E+00	2.08E+00	1.97E+00	1.86E+00	1.73E+00	1.60E+00	1.50E+00	1.41E+00	1.34E+00	1.27E+00	1.21E+00
27	X/Q (SRC 27)	1.30E+00	1.46E+00	1.65E+00	1.85E+00	2.07E+00	2.32E+00	2.57E+00	2.77E+00	2.93E+00	3.01E+00	3.05E+00	3.01E+00	2.91E+00	2.75E+00	2.55E+00	2.35E+00	2.16E+00	1.98E+00	1.82E+00
28	X/Q (SRC 28)	1.30E+00	1.46E+00	1.65E+00	1.85E+00	2.07E+00	2.32E+00	2.57E+00	2.77E+00	2.93E+00	3.01E+00	3.05E+00	3.01E+00	2.91E+00	2.75E+00	2.55E+00	2.35E+00	2.16E+00	1.98E+00	1.82E+00
29	X/Q (SRC 29)	1.51E+00	1.77E+00	2.08E+00	2.42E+00	2.83E+00	3.26E+00	3.66E+00	4.00E+00	4.25E+00	4.37E+00	4.45E+00	4.45E+00	4.35E+00	4.11E+00	3.79E+00	3.44E+00	3.09E+00	2.78E+00	2.49E+00
30	X/Q (SRC 30)	1.30E+00	1.47E+00	1.64E+00	1.84E+00	2.07E+00	2.32E+00	2.56E+00	2.76E+00	2.91E+00	2.98E+00	3.02E+00	2.98E+00	2.88E+00	2.71E+00	2.52E+00	2.32E+00	2.13E+00	1.96E+00	1.80E+00
31	X/Q (SRC 31)	4.60E+00	4.62E+00	4.55E+00	4.39E+00	4.15E+00	3.86E+00	3.52E+00	3.14E+00	2.77E+00	2.43E+00	2.13E+00	1.87E+00	1.65E+00	1.46E+00	1.30E+00	1.16E+00	1.04E+00	9.39E-01	8.53E-01
32	X/Q (SRC 32)	1.03E+01	1.20E+01	1.37E+01	1.57E+01	1.81E+01	2.10E+01	2.34E+01	2.41E+01	2.29E+01	2.06E+01	1.83E+01	1.63E+01	1.47E+01	1.33E+01	1.20E+01	1.08E+01	9.69E+00	8.62E+00	7.64E+00
33	X/Q (SRC 33)	1.21E+00	1.28E+00	1.36E+00	1.44E+00	1.54E+00	1.74E+00	1.93E+00	2.14E+00	2.23E+00	2.24E+00	2.14E+00	2.01E+00	1.87E+00	1.71E+00	1.56E+00	1.46E+00	1.41E+00	1.36E+00	1.30E+00
34	X/Q (SRC 34)	3.23E+00	3.83E+00	4.32E+00	4.94E+00	5.89E+00	6.62E+00	6.58E+00	6.00E+00	5.30E+00	4.61E+00	4.16E+00	3.79E+00	3.42E+00	3.08E+00	2.77E+00	2.47E+00	2.19E+00	1.93E+00	1.70E+00
35	X/Q (SRC 35)	7.50E-01	8.67E-01	9.48E-01	9.45E-01	9.78E-01	1.11E+00	1.17E+00	1.23E+00	1.30E+00	1.37E+00	1.55E+00	1.71E+00	1.90E+00	2.00E+00	2.05E+00	1.99E+00	1.87E+00	1.76E+00	1.63E+00

ASCON Health Risk

Supplemental HRA

	Rec	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530
1	X/Q (SRC 1)	7.27E-01	7.87E-01	8.79E-01	9.75E-01	1.03E+00	1.09E+00	1.20E+00	1.31E+00	1.40E+00	1.48E+00	1.59E+00	1.76E+00	1.96E+00	2.15E+00	2.24E+00	2.23E+00	2.14E+00	2.02E+00	1.89E+00
2	X/Q (SRC 2)	4.62E-01	4.80E-01	5.09E-01	5.52E-01	6.03E-01	6.45E-01	6.65E-01	6.85E-01	7.29E-01	7.86E-01	8.31E-01	8.69E-01	9.08E-01	9.48E-01	1.02E+00	1.11E+00	1.21E+00	1.31E+00	1.38E+00
3	X/Q (SRC 3)	4.90E-01	5.37E-01	5.80E-01	6.15E-01	6.45E-01	6.87E-01	7.53E-01	8.40E-01	9.09E-01	9.47E-01	1.01E+00	1.11E+00	1.20E+00	1.27E+00	1.34E+00	1.43E+00	1.58E+00	1.75E+00	1.91E+00
4	X/Q (SRC 4)	5.76E-01	6.29E-01	6.73E-01	7.10E-01	7.54E-01	8.33E-01	9.37E-01	1.02E+00	1.06E+00	1.14E+00	1.27E+00	1.37E+00	1.46E+00	1.54E+00	1.69E+00	1.89E+00	2.09E+00	2.23E+00	2.27E+00
5	X/Q (SRC 5)	7.09E-01	7.74E-01	8.48E-01	9.33E-01	1.02E+00	1.10E+00	1.22E+00	1.33E+00	1.45E+00	1.57E+00	1.75E+00	1.92E+00	2.03E+00	2.06E+00	2.03E+00	1.95E+00	1.88E+00	1.80E+00	1.73E+00
6	X/Q (SRC 6)	6.57E-01	7.38E-01	8.18E-01	8.91E-01	9.67E-01	1.08E+00	1.21E+00	1.35E+00	1.49E+00	1.64E+00	1.80E+00	1.98E+00	2.21E+00	2.43E+00	2.59E+00	2.69E+00	2.71E+00	2.68E+00	2.59E+00
7	X/Q (SRC 7)	4.58E-01	4.95E-01	5.25E-01	5.50E-01	5.76E-01	6.12E-01	6.69E-01	7.37E-01	7.93E-01	8.20E-01	8.65E-01	9.44E-01	1.01E+00	1.07E+00	1.13E+00	1.17E+00	1.28E+00	1.42E+00	1.55E+00
8	X/Q (SRC 8)	2.18E-01	2.36E-01	2.55E-01	2.77E-01	2.99E-01	3.25E-01	3.51E-01	3.80E-01	4.11E-01	4.40E-01	4.70E-01	5.01E-01	5.33E-01	5.63E-01	5.97E-01	6.31E-01	6.69E-01	6.94E-01	7.17E-01
9	X/Q (SRC 9)	6.40E-01	7.01E-01	7.69E-01	8.45E-01	9.28E-01	1.02E+00	1.12E+00	1.23E+00	1.36E+00	1.49E+00	1.65E+00	1.82E+00	2.00E+00	2.16E+00	2.29E+00	2.37E+00	2.44E+00	2.45E+00	2.40E+00
10	X/Q (SRC 10)	1.24E+00	1.44E+00	1.63E+00	1.86E+00	2.19E+00	2.50E+00	2.85E+00	3.32E+00	3.76E+00	4.26E+00	4.97E+00	5.52E+00	5.54E+00	5.18E+00	4.70E+00	4.14E+00	3.72E+00	3.38E+00	3.07E+00
11	X/Q (SRC 11)	4.17E-01	4.31E-01	4.46E-01	4.70E-01	5.08E-01	5.51E-01	5.94E-01	6.12E-01	6.28E-01	6.59E-01	7.09E-01	7.55E-01	7.88E-01	8.26E-01	8.60E-01	8.90E-01	9.66E-01	1.06E+00	1.15E+00
12	X/Q (SRC 12)	7.35E-01	8.12E-01	8.61E-01	8.91E-01	9.65E-01	1.05E+00	1.11E+00	1.18E+00	1.25E+00	1.34E+00	1.48E+00	1.64E+00	1.78E+00	1.87E+00	1.88E+00	1.80E+00	1.73E+00	1.64E+00	1.54E+00
13	X/Q (SRC 13)	6.44E-01	7.05E-01	7.73E-01	8.48E-01	9.31E-01	1.02E+00	1.12E+00	1.24E+00	1.37E+00	1.50E+00	1.65E+00	1.82E+00	2.00E+00	2.16E+00	2.29E+00	2.36E+00	2.43E+00	2.44E+00	2.39E+00
14	X/Q (SRC 14)	6.43E-01	7.04E-01	7.72E-01	8.47E-01	9.30E-01	1.02E+00	1.12E+00	1.23E+00	1.36E+00	1.49E+00	1.64E+00	1.82E+00	1.99E+00	2.15E+00	2.28E+00	2.35E+00	2.42E+00	2.43E+00	2.38E+00
15	X/Q (SRC 15)	6.95E-01	7.66E-01	8.60E-01	9.79E-01	1.12E+00	1.28E+00	1.46E+00	1.67E+00	1.90E+00	2.18E+00	2.50E+00	2.84E+00	3.22E+00	3.67E+00	4.13E+00	4.51E+00	4.74E+00	4.77E+00	4.57E+00
16	X/Q (SRC 16)	6.40E-01	7.01E-01	7.69E-01	8.45E-01	9.28E-01	1.02E+00	1.12E+00	1.23E+00	1.36E+00	1.49E+00	1.65E+00	1.82E+00	2.00E+00	2.16E+00	2.29E+00	2.37E+00	2.44E+00	2.45E+00	2.40E+00
17	X/Q (SRC 17)	6.13E-01	6.54E-01	7.04E-01	7.60E-01	8.12E-01	8.57E-01	9.12E-01	9.86E-01	1.07E+00	1.14E+00	1.20E+00	1.27E+00	1.37E+00	1.50E+00	1.63E+00	1.73E+00	1.80E+00	1.80E+00	1.75E+00
18	X/Q (SRC 18)	6.40E-01	7.01E-01	7.69E-01	8.45E-01	9.28E-01	1.02E+00	1.12E+00	1.23E+00	1.36E+00	1.49E+00	1.65E+00	1.82E+00	2.00E+00	2.16E+00	2.29E+00	2.37E+00	2.44E+00	2.45E+00	2.40E+00
19	X/Q (SRC 19)	6.45E-01	7.16E-01	7.99E-01	8.96E-01	1.01E+00	1.14E+00	1.30E+00	1.48E+00	1.69E+00	1.92E+00	2.18E+00	2.47E+00	2.74E+00	2.99E+00	3.18E+00	3.26E+00	3.36E+00	3.41E+00	3.40E+00
20	X/Q (SRC 20)	4.56E-01	4.89E-01	5.20E-01	5.50E-01	5.81E-01	6.17E-01	6.64E-01	7.19E-01	7.74E-01	8.18E-01	8.73E-01	9.48E-01	1.03E+00	1.09E+00	1.15E+00	1.20E+00	1.31E+00	1.44E+00	1.57E+00
21	X/Q (SRC 21)	3.02E-01	3.13E-01	3.25E-01	3.38E-01	3.50E-01	3.66E-01	3.81E-01	3.95E-01	4.09E-01	4.25E-01	4.44E-01	4.66E-01	4.86E-01	5.02E-01	5.18E-01	5.34E-01	5.54E-01	5.84E-01	6.24E-01
22	X/Q (SRC 22)	7.33E-01	7.92E-01	8.67E-01	9.47E-01	1.02E+00	1.10E+00	1.21E+00	1.33E+00	1.43E+00	1.51E+00	1.63E+00	1.79E+00	1.98E+00	2.14E+00	2.22E+00	2.20E+00	2.12E+00	2.00E+00	1.88E+00
23	X/Q (SRC 23)	5.72E-01	6.20E-01	6.67E-01	7.11E-01	7.60E-01	8.32E-01	9.15E-01	9.94E-01	1.06E+00	1.15E+00	1.28E+00	1.39E+00	1.49E+00	1.58E+00	1.72E+00	1.92E+00	2.10E+00	2.21E+00	2.24E+00
24	X/Q (SRC 24)	7.06E-01	7.70E-01	8.41E-01	9.21E-01	1.01E+00	1.10E+00	1.22E+00	1.35E+00	1.47E+00	1.60E+00	1.77E+00	1.93E+00	2.03E+00	2.05E+00	2.02E+00	1.94E+00	1.88E+00	1.80E+00	1.72E+00
25	X/Q (SRC 25)	6.62E-01	7.34E-01	8.10E-01	8.87E-01	9.68E-01	1.07E+00	1.20E+00	1.33E+00	1.48E+00	1.65E+00	1.82E+00	2.01E+00	2.24E+00	2.45E+00	2.60E+00	2.69E+00	2.71E+00	2.66E+00	2.58E+00
26	X/Q (SRC 26)	7.26E-01	7.89E-01	8.43E-01	8.96E-01	9.73E-01	1.05E+00	1.13E+00	1.20E+00	1.28E+00	1.38E+00	1.51E+00	1.66E+00	1.78E+00	1.86E+00	1.86E+00	1.78E+00	1.71E+00	1.63E+00	1.54E+00
27	X/Q (SRC 27)	6.43E-01	7.02E-01	7.67E-01	8.41E-01	9.22E-01	1.01E+00	1.11E+00	1.23E+00	1.37E+00	1.51E+00	1.66E+00	1.84E+00	2.02E+00	2.17E+00	2.30E+00	2.37E+00	2.44E+00	2.44E+00	2.39E+00
28	X/Q (SRC 28)	6.43E-01	7.02E-01	7.67E-01	8.41E-01	9.22E-01	1.01E+00	1.11E+00	1.23E+00	1.37E+00	1.51E+00	1.66E+00	1.84E+00	2.02E+00	2.17E+00	2.30E+00	2.37E+00	2.44E+00	2.44E+00	2.39E+00
29	X/Q (SRC 29)	6.54E-01	7.24E-01	8.05E-01	9.01E-01	1.01E+00	1.14E+00	1.29E+00	1.47E+00	1.69E+00	1.92E+00	2.18E+00	2.47E+00	2.75E+00	3.00E+00	3.18E+00	3.27E+00	3.37E+00	3.41E+00	3.39E+00
30	X/Q (SRC 30)	6.46E-01	7.05E-01	7.70E-01	8.44E-01	9.24E-01	1.01E+00	1.11E+00	1.23E+00	1.37E+00	1.50E+00	1.66E+00	1.84E+00	2.01E+00	2.17E+00	2.29E+00	2.36E+00	2.42E+00	2.41E+00	2.36E+00
31	X/Q (SRC 31)	1.97E+00	2.26E+00	2.60E+00	2.92E+00	3.17E+00	3.35E+00	3.44E+00	3.47E+00	3.44E+00	3.35E+00	3.22E+00	3.04E+00	2.83E+00	2.59E+00	2.34E+00	2.11E+00	1.90E+00	1.70E+00	1.52E+00
32	X/Q (SRC 32)	3.71E+00	4.32E+00	4.90E+00	5.50E+00	6.34E+00	7.30E+00	8.23E+00	9.25E+00	1.04E+01	1.17E+01	1.31E+01	1.50E+01	1.69E+01	1.79E+01	1.77E+01	1.63E+01	1.48E+01	1.33E+01	1.20E+01
33	X/Q (SRC 33)	6.48E-01	7.40E-01	8.44E-01	8.88E-01	8.74E-01	9.26E-01	1.04E+00	1.07E+00	1.15E+00	1.20E+00	1.28E+00	1.44E+00	1.58E+00	1.76E+00	1.85E+00	1.88E+00	1.86E+00	1.76E+00	1.65E+00
34	X/Q (SRC 34)	1.20E+00	1.35E+00	1.48E+00	1.72E+00	2.08E+00	2.25E+00	2.54E+00	2.87E+00	3.19E+00	3.57E+00	4.17E+00	4.75E+00	4.94E+00	4.68E+00	4.27E+00	3.79E+00	3.36E+00	3.09E+00	2.87E+00
35	X/Q (SRC 35)	4.82E-01	5.13E-01	5.30E-01	5.45E-01	5.69E-01	6.24E-01	7.13E-01	7.95E-01	8.15E-01	8.00E-01	8.69E-01	9.65E-01	9.89E-01	1.05E+00	1.10E+00	1.14E+00	1.29E+00	1.41E+00	1.57E+00

ASCON Health Risk

Supplemental HRA

	Rec	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549
1	X/Q (SRC 1)	1.75E+00	1.62E+00	1.51E+00	1.43E+00	1.36E+00	1.30E+00	6.58E-01	7.25E-01	8.02E-01	8.59E-01	8.87E-01	9.46E-01	1.04E+00	1.12E+00	1.18E+00	1.24E+00	1.32E+00	1.45E+00	1.60E+00
2	X/Q (SRC 2)	1.41E+00	1.40E+00	1.36E+00	1.30E+00	1.24E+00	1.17E+00	4.23E-01	4.45E-01	4.77E-01	5.21E-01	5.59E-01	5.80E-01	5.90E-01	6.13E-01	6.57E-01	7.01E-01	7.31E-01	7.62E-01	7.93E-01
3	X/Q (SRC 3)	2.01E+00	2.03E+00	1.96E+00	1.86E+00	1.75E+00	1.64E+00	4.75E-01	5.07E-01	5.31E-01	5.54E-01	5.83E-01	6.31E-01	6.99E-01	7.63E-01	7.96E-01	8.20E-01	8.82E-01	9.66E-01	1.02E+00
4	X/Q (SRC 4)	2.22E+00	2.10E+00	1.98E+00	1.84E+00	1.69E+00	1.57E+00	5.46E-01	5.77E-01	6.01E-01	6.36E-01	6.90E-01	7.69E-01	8.43E-01	8.82E-01	9.16E-01	1.00E+00	1.09E+00	1.15E+00	1.22E+00
5	X/Q (SRC 5)	1.65E+00	1.58E+00	1.50E+00	1.41E+00	1.33E+00	1.25E+00	6.46E-01	6.99E-01	7.60E-01	8.23E-01	8.78E-01	9.52E-01	1.04E+00	1.12E+00	1.19E+00	1.27E+00	1.40E+00	1.54E+00	1.65E+00
6	X/Q (SRC 6)	2.48E+00	2.35E+00	2.20E+00	2.05E+00	1.90E+00	1.77E+00	6.30E-01	6.86E-01	7.34E-01	7.88E-01	8.61E-01	9.58E-01	1.05E+00	1.15E+00	1.25E+00	1.35E+00	1.47E+00	1.60E+00	1.75E+00
7	X/Q (SRC 7)	1.67E+00	1.73E+00	1.73E+00	1.68E+00	1.60E+00	1.52E+00	4.40E-01	4.63E-01	4.80E-01	4.99E-01	5.28E-01	5.71E-01	6.27E-01	6.74E-01	7.00E-01	7.19E-01	7.68E-01	8.33E-01	8.81E-01
8	X/Q (SRC 8)	7.36E-01	7.43E-01	7.39E-01	7.30E-01	7.11E-01	6.91E-01	2.14E-01	2.29E-01	2.45E-01	2.66E-01	2.86E-01	3.09E-01	3.32E-01	3.55E-01	3.78E-01	4.00E-01	4.22E-01	4.47E-01	4.74E-01
9	X/Q (SRC 9)	2.30E+00	2.17E+00	2.03E+00	1.89E+00	1.75E+00	1.63E+00	5.97E-01	6.47E-01	7.01E-01	7.63E-01	8.28E-01	9.00E-01	9.79E-01	1.06E+00	1.15E+00	1.25E+00	1.35E+00	1.48E+00	1.61E+00
10	X/Q (SRC 10)	2.80E+00	2.53E+00	2.29E+00	2.05E+00	1.84E+00	1.65E+00	1.13E+00	1.25E+00	1.39E+00	1.61E+00	1.83E+00	2.01E+00	2.30E+00	2.59E+00	2.84E+00	3.16E+00	3.63E+00	4.07E+00	4.23E+00
11	X/Q (SRC 11)	1.24E+00	1.29E+00	1.31E+00	1.30E+00	1.26E+00	1.21E+00	3.85E-01	3.97E-01	4.16E-01	4.42E-01	4.81E-01	5.17E-01	5.41E-01	5.49E-01	5.62E-01	5.97E-01	6.42E-01	6.74E-01	6.96E-01
12	X/Q (SRC 12)	1.43E+00	1.33E+00	1.26E+00	1.20E+00	1.15E+00	1.10E+00	6.84E-01	7.33E-01	7.55E-01	7.81E-01	8.52E-01	9.19E-01	9.62E-01	1.01E+00	1.06E+00	1.14E+00	1.25E+00	1.37E+00	1.48E+00
13	X/Q (SRC 13)	2.29E+00	2.16E+00	2.01E+00	1.87E+00	1.74E+00	1.62E+00	6.00E-01	6.50E-01	7.04E-01	7.65E-01	8.30E-01	9.02E-01	9.81E-01	1.07E+00	1.15E+00	1.25E+00	1.35E+00	1.48E+00	1.61E+00
14	X/Q (SRC 14)	2.28E+00	2.15E+00	2.01E+00	1.87E+00	1.73E+00	1.61E+00	5.99E-01	6.49E-01	7.03E-01	7.64E-01	8.29E-01	9.01E-01	9.79E-01	1.06E+00	1.15E+00	1.24E+00	1.35E+00	1.47E+00	1.61E+00
15	X/Q (SRC 15)	4.23E+00	3.84E+00	3.47E+00	3.14E+00	2.85E+00	2.61E+00	6.47E-01	7.20E-01	8.06E-01	9.08E-01	1.02E+00	1.14E+00	1.28E+00	1.43E+00	1.60E+00	1.80E+00	2.01E+00	2.23E+00	2.49E+00
16	X/Q (SRC 16)	2.30E+00	2.17E+00	2.03E+00	1.89E+00	1.75E+00	1.63E+00	5.97E-01	6.47E-01	7.01E-01	7.63E-01	8.28E-01	9.00E-01	9.79E-01	1.06E+00	1.15E+00	1.25E+00	1.35E+00	1.48E+00	1.61E+00
17	X/Q (SRC 17)	1.68E+00	1.60E+00	1.51E+00	1.42E+00	1.33E+00	1.26E+00	5.65E-01	6.04E-01	6.47E-01	6.90E-01	7.27E-01	7.65E-01	8.15E-01	8.76E-01	9.38E-01	9.89E-01	1.03E+00	1.09E+00	1.17E+00
18	X/Q (SRC 18)	2.30E+00	2.17E+00	2.03E+00	1.89E+00	1.75E+00	1.63E+00	5.97E-01	6.47E-01	7.01E-01	7.63E-01	8.28E-01	9.00E-01	9.79E-01	1.06E+00	1.15E+00	1.25E+00	1.35E+00	1.48E+00	1.61E+00
19	X/Q (SRC 19)	3.31E+00	3.12E+00	2.90E+00	2.67E+00	2.44E+00	2.23E+00	6.06E-01	6.67E-01	7.35E-01	8.16E-01	9.11E-01	1.02E+00	1.13E+00	1.26E+00	1.40E+00	1.56E+00	1.74E+00	1.93E+00	2.13E+00
20	X/Q (SRC 20)	1.67E+00	1.72E+00	1.71E+00	1.66E+00	1.59E+00	1.51E+00	4.35E-01	4.59E-01	4.81E-01	5.04E-01	5.33E-01	5.70E-01	6.13E-01	6.55E-01	6.90E-01	7.24E-01	7.74E-01	8.36E-01	8.95E-01
21	X/Q (SRC 21)	6.68E-01	7.13E-01	7.53E-01	7.81E-01	7.94E-01	7.95E-01	2.86E-01	2.96E-01	3.06E-01	3.18E-01	3.30E-01	3.42E-01	3.54E-01	3.66E-01	3.78E-01	3.93E-01	4.10E-01	4.28E-01	4.44E-01
22	X/Q (SRC 22)	1.76E+00	1.63E+00	1.52E+00	1.43E+00	1.36E+00	1.29E+00	6.63E-01	7.18E-01	7.79E-01	8.38E-01	8.87E-01	9.55E-01	1.05E+00	1.13E+00	1.20E+00	1.26E+00	1.35E+00	1.48E+00	1.63E+00
23	X/Q (SRC 23)	2.18E+00	2.08E+00	1.96E+00	1.84E+00	1.70E+00	1.58E+00	5.38E-01	5.72E-01	6.03E-01	6.42E-01	6.91E-01	7.54E-01	8.17E-01	8.69E-01	9.24E-01	1.00E+00	1.09E+00	1.18E+00	1.25E+00
24	X/Q (SRC 24)	1.65E+00	1.57E+00	1.48E+00	1.40E+00	1.32E+00	1.24E+00	6.44E-01	6.94E-01	7.50E-01	8.12E-01	8.75E-01	9.54E-01	1.05E+00	1.13E+00	1.21E+00	1.30E+00	1.42E+00	1.55E+00	1.65E+00
25	X/Q (SRC 25)	2.47E+00	2.33E+00	2.18E+00	2.03E+00	1.89E+00	1.76E+00	6.25E-01	6.79E-01	7.31E-01	7.91E-01	8.61E-01	9.46E-01	1.04E+00	1.14E+00	1.25E+00	1.37E+00	1.48E+00	1.62E+00	1.78E+00
26	X/Q (SRC 26)	1.44E+00	1.34E+00	1.27E+00	1.20E+00	1.15E+00	1.10E+00	6.66E-01	7.12E-01	7.51E-01	7.91E-01	8.56E-01	9.24E-01	9.82E-01	1.03E+00	1.08E+00	1.16E+00	1.27E+00	1.39E+00	1.49E+00
27	X/Q (SRC 27)	2.29E+00	2.16E+00	2.02E+00	1.88E+00	1.74E+00	1.62E+00	5.98E-01	6.46E-01	6.98E-01	7.58E-01	8.22E-01	8.95E-01	9.76E-01	1.06E+00	1.16E+00	1.26E+00	1.37E+00	1.50E+00	1.63E+00
28	X/Q (SRC 28)	2.29E+00	2.16E+00	2.02E+00	1.88E+00	1.74E+00	1.62E+00	5.98E-01	6.46E-01	6.98E-01	7.58E-01	8.22E-01	8.95E-01	9.76E-01	1.06E+00	1.16E+00	1.26E+00	1.37E+00	1.50E+00	1.63E+00
29	X/Q (SRC 29)	3.28E+00	3.10E+00	2.87E+00	2.64E+00	2.41E+00	2.20E+00	6.12E-01	6.72E-01	7.39E-01	8.19E-01	9.08E-01	1.01E+00	1.13E+00	1.26E+00	1.40E+00	1.56E+00	1.74E+00	1.94E+00	2.14E+00
30	X/Q (SRC 30)	2.26E+00	2.14E+00	2.00E+00	1.86E+00	1.73E+00	1.60E+00	6.00E-01	6.48E-01	7.00E-01	7.60E-01	8.24E-01	8.96E-01	9.77E-01	1.06E+00	1.16E+00	1.26E+00	1.37E+00	1.49E+00	1.63E+00
31	X/Q (SRC 31)	1.38E+00	1.24E+00	1.12E+00	1.01E+00	9.20E-01	8.40E-01	1.58E+00	1.77E+00	2.00E+00	2.24E+00	2.43E+00	2.57E+00	2.66E+00	2.70E+00	2.69E+00	2.64E+00	2.56E+00	2.45E+00	2.32E+00
32	X/Q (SRC 32)	1.11E+01	1.02E+01	9.40E+00	8.64E+00	7.92E+00	7.23E+00	3.53E+00	3.91E+00	4.27E+00	4.81E+00	5.53E+00	6.17E+00	6.80E+00	7.44E+00	8.24E+00	9.00E+00	9.99E+00	1.13E+01	1.27E+01
33	X/Q (SRC 33)	1.54E+00	1.41E+00	1.30E+00	1.23E+00	1.20E+00	1.16E+00	6.19E-01	7.07E-01	7.64E-01	7.54E-01	7.54E-01	8.35E-01	9.06E-01	9.23E-01	9.93E-01	1.02E+00	1.08E+00	1.21E+00	1.31E+00
34	X/Q (SRC 34)	2.64E+00	2.42E+00	2.23E+00	2.04E+00	1.85E+00	1.67E+00	1.07E+00	1.14E+00	1.29E+00	1.55E+00	1.71E+00	1.79E+00	2.07E+00	2.24E+00	2.45E+00	2.69E+00	3.10E+00	3.54E+00	3.77E+00
35	X/Q (SRC 35)	1.67E+00	1.72E+00	1.73E+00	1.65E+00	1.55E+00	1.46E+00	4.53E-01	4.65E-01	4.75E-01	4.92E-01	5.32E-01	6.03E-01	6.77E-01	7.10E-01	6.92E-01	7.01E-01	7.84E-01	8.40E-01	8.53E-01

ASCON Health Risk

Supplemental HRA

	Rec	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568
1	X/Q (SRC 1)	1.76E+00	1.85E+00	1.89E+00	1.84E+00	1.75E+00	1.66E+00	1.56E+00	1.45E+00	1.35E+00	1.26E+00	1.21E+00	1.16E+00	6.11E-01	6.75E-01	7.26E-01	7.49E-01	7.73E-01	8.38E-01	9.12E-01
2	X/Q (SRC 2)	8.24E-01	8.77E-01	9.55E-01	1.04E+00	1.12E+00	1.19E+00	1.22E+00	1.23E+00	1.21E+00	1.16E+00	1.12E+00	1.07E+00	3.94E-01	4.20E-01	4.54E-01	4.90E-01	5.12E-01	5.20E-01	5.29E-01
3	X/Q (SRC 3)	1.08E+00	1.12E+00	1.20E+00	1.32E+00	1.45E+00	1.58E+00	1.68E+00	1.72E+00	1.69E+00	1.62E+00	1.54E+00	1.46E+00	4.48E-01	4.67E-01	4.82E-01	5.04E-01	5.39E-01	5.91E-01	6.48E-01
4	X/Q (SRC 4)	1.28E+00	1.39E+00	1.55E+00	1.71E+00	1.83E+00	1.90E+00	1.89E+00	1.82E+00	1.72E+00	1.62E+00	1.52E+00	1.40E+00	5.02E-01	5.22E-01	5.44E-01	5.83E-01	6.43E-01	7.08E-01	7.48E-01
5	X/Q (SRC 5)	1.70E+00	1.69E+00	1.66E+00	1.61E+00	1.56E+00	1.50E+00	1.45E+00	1.39E+00	1.33E+00	1.27E+00	1.20E+00	1.14E+00	5.90E-01	6.37E-01	6.85E-01	7.25E-01	7.67E-01	8.33E-01	8.96E-01
6	X/Q (SRC 6)	1.92E+00	2.06E+00	2.16E+00	2.21E+00	2.21E+00	2.17E+00	2.10E+00	2.00E+00	1.90E+00	1.78E+00	1.67E+00	1.57E+00	5.87E-01	6.22E-01	6.56E-01	7.08E-01	7.79E-01	8.56E-01	9.22E-01
7	X/Q (SRC 7)	9.23E-01	9.64E-01	1.01E+00	1.09E+00	1.19E+00	1.30E+00	1.41E+00	1.47E+00	1.49E+00	1.47E+00	1.41E+00	1.35E+00	4.12E-01	4.25E-01	4.39E-01	4.60E-01	4.94E-01	5.39E-01	5.82E-01
8	X/Q (SRC 8)	4.99E-01	5.22E-01	5.56E-01	5.83E-01	6.03E-01	6.24E-01	6.39E-01	6.49E-01	6.48E-01	6.40E-01	6.31E-01	6.17E-01	2.08E-01	2.23E-01	2.37E-01	2.54E-01	2.72E-01	2.91E-01	3.10E-01
9	X/Q (SRC 9)	1.74E+00	1.84E+00	1.93E+00	1.99E+00	2.02E+00	2.00E+00	1.95E+00	1.86E+00	1.76E+00	1.65E+00	1.55E+00	1.45E+00	5.54E-01	5.96E-01	6.41E-01	6.90E-01	7.41E-01	7.97E-01	8.58E-01
10	X/Q (SRC 10)	4.07E+00	3.78E+00	3.45E+00	3.10E+00	2.81E+00	2.59E+00	2.40E+00	2.22E+00	2.05E+00	1.88E+00	1.73E+00	1.58E+00	9.95E-01	1.09E+00	1.23E+00	1.39E+00	1.51E+00	1.66E+00	1.88E+00
11	X/Q (SRC 11)	7.27E-01	7.54E-01	7.81E-01	8.39E-01	9.17E-01	9.92E-01	1.07E+00	1.12E+00	1.15E+00	1.16E+00	1.13E+00	1.09E+00	3.56E-01	3.69E-01	3.93E-01	4.23E-01	4.57E-01	4.81E-01	4.89E-01
12	X/Q (SRC 12)	1.58E+00	1.61E+00	1.58E+00	1.52E+00	1.45E+00	1.38E+00	1.29E+00	1.21E+00	1.13E+00	1.08E+00	1.03E+00	9.96E-01	6.29E-01	6.50E-01	6.63E-01	7.01E-01	7.64E-01	8.07E-01	8.37E-01
13	X/Q (SRC 13)	1.74E+00	1.84E+00	1.93E+00	1.99E+00	2.01E+00	1.99E+00	1.93E+00	1.85E+00	1.75E+00	1.64E+00	1.54E+00	1.44E+00	5.57E-01	5.99E-01	6.43E-01	6.91E-01	7.43E-01	7.99E-01	8.60E-01
14	X/Q (SRC 14)	1.73E+00	1.84E+00	1.92E+00	1.98E+00	2.00E+00	1.98E+00	1.93E+00	1.84E+00	1.74E+00	1.63E+00	1.53E+00	1.43E+00	5.57E-01	5.98E-01	6.42E-01	6.90E-01	7.42E-01	7.98E-01	8.58E-01
15	X/Q (SRC 15)	2.79E+00	3.09E+00	3.40E+00	3.61E+00	3.69E+00	3.62E+00	3.43E+00	3.16E+00	2.89E+00	2.64E+00	2.43E+00	2.24E+00	6.16E-01	6.84E-01	7.56E-01	8.33E-01	9.15E-01	1.01E+00	1.12E+00
16	X/Q (SRC 16)	1.74E+00	1.84E+00	1.93E+00	1.99E+00	2.02E+00	2.00E+00	1.95E+00	1.86E+00	1.76E+00	1.65E+00	1.55E+00	1.45E+00	5.54E-01	5.96E-01	6.41E-01	6.90E-01	7.41E-01	7.97E-01	8.58E-01
17	X/Q (SRC 17)	1.27E+00	1.37E+00	1.47E+00	1.53E+00	1.55E+00	1.53E+00	1.48E+00	1.42E+00	1.35E+00	1.28E+00	1.21E+00	1.14E+00	5.25E-01	5.60E-01	5.95E-01	6.25E-01	6.52E-01	6.86E-01	7.30E-01
18	X/Q (SRC 18)	1.74E+00	1.84E+00	1.93E+00	1.99E+00	2.02E+00	2.00E+00	1.95E+00	1.86E+00	1.76E+00	1.65E+00	1.55E+00	1.45E+00	5.54E-01	5.96E-01	6.41E-01	6.90E-01	7.41E-01	7.97E-01	8.58E-01
19	X/Q (SRC 19)	2.32E+00	2.45E+00	2.55E+00	2.62E+00	2.69E+00	2.71E+00	2.67E+00	2.58E+00	2.43E+00	2.27E+00	2.11E+00	1.96E+00	5.70E-01	6.21E-01	6.78E-01	7.46E-01	8.20E-01	8.99E-01	9.87E-01
20	X/Q (SRC 20)	9.42E-01	9.83E-01	1.03E+00	1.11E+00	1.21E+00	1.32E+00	1.41E+00	1.47E+00	1.48E+00	1.45E+00	1.40E+00	1.34E+00	4.09E-01	4.26E-01	4.43E-01	4.65E-01	4.94E-01	5.30E-01	5.64E-01
21	X/Q (SRC 21)	4.57E-01	4.68E-01	4.83E-01	5.00E-01	5.25E-01	5.59E-01	5.97E-01	6.36E-01	6.71E-01	6.98E-01	7.16E-01	7.21E-01	2.72E-01	2.81E-01	2.90E-01	3.00E-01	3.11E-01	3.21E-01	3.31E-01
22	X/Q (SRC 22)	1.76E+00	1.84E+00	1.86E+00	1.82E+00	1.73E+00	1.65E+00	1.55E+00	1.46E+00	1.36E+00	1.28E+00	1.21E+00	1.16E+00	6.09E-01	6.58E-01	7.03E-01	7.41E-01	7.81E-01	8.43E-01	9.15E-01
23	X/Q (SRC 23)	1.32E+00	1.42E+00	1.57E+00	1.72E+00	1.83E+00	1.88E+00	1.86E+00	1.79E+00	1.71E+00	1.61E+00	1.51E+00	1.42E+00	4.99E-01	5.23E-01	5.49E-01	5.87E-01	6.34E-01	6.86E-01	7.29E-01
24	X/Q (SRC 24)	1.69E+00	1.69E+00	1.66E+00	1.61E+00	1.56E+00	1.50E+00	1.45E+00	1.39E+00	1.32E+00	1.26E+00	1.20E+00	1.13E+00	5.86E-01	6.29E-01	6.73E-01	7.18E-01	7.68E-01	8.34E-01	9.03E-01
25	X/Q (SRC 25)	1.94E+00	2.06E+00	2.16E+00	2.21E+00	2.20E+00	2.16E+00	2.09E+00	2.00E+00	1.89E+00	1.77E+00	1.67E+00	1.56E+00	5.81E-01	6.20E-01	6.59E-01	7.10E-01	7.71E-01	8.40E-01	9.10E-01
26	X/Q (SRC 26)	1.57E+00	1.59E+00	1.55E+00	1.50E+00	1.44E+00	1.37E+00	1.30E+00	1.22E+00	1.15E+00	1.09E+00	1.04E+00	9.94E-01	6.09E-01	6.39E-01	6.68E-01	7.09E-01	7.65E-01	8.16E-01	8.56E-01
27	X/Q (SRC 27)	1.75E+00	1.85E+00	1.94E+00	1.99E+00	2.01E+00	1.99E+00	1.94E+00	1.85E+00	1.75E+00	1.64E+00	1.54E+00	1.44E+00	5.54E-01	5.94E-01	6.37E-01	6.84E-01	7.36E-01	7.93E-01	8.57E-01
28	X/Q (SRC 28)	1.75E+00	1.85E+00	1.94E+00	1.99E+00	2.01E+00	1.99E+00	1.94E+00	1.85E+00	1.75E+00	1.64E+00	1.54E+00	1.44E+00	5.54E-01	5.94E-01	6.37E-01	6.84E-01	7.36E-01	7.93E-01	8.57E-01
29	X/Q (SRC 29)	2.33E+00	2.46E+00	2.57E+00	2.64E+00	2.69E+00	2.70E+00	2.66E+00	2.56E+00	2.42E+00	2.25E+00	2.09E+00	1.94E+00	5.73E-01	6.24E-01	6.80E-01	7.44E-01	8.15E-01	8.93E-01	9.81E-01
30	X/Q (SRC 30)	1.75E+00	1.85E+00	1.93E+00	1.98E+00	1.99E+00	1.97E+00	1.92E+00	1.83E+00	1.73E+00	1.62E+00	1.53E+00	1.43E+00	5.56E-01	5.96E-01	6.38E-01	6.85E-01	7.37E-01	7.94E-01	8.57E-01
31	X/Q (SRC 31)	2.16E+00	1.99E+00	1.83E+00	1.67E+00	1.52E+00	1.39E+00	1.27E+00	1.17E+00	1.07E+00	9.73E-01	8.93E-01	8.21E-01	1.29E+00	1.43E+00	1.59E+00	1.76E+00	1.92E+00	2.03E+00	2.11E+00
32	X/Q (SRC 32)	1.37E+01	1.38E+01	1.33E+01	1.23E+01	1.11E+01	1.01E+01	9.27E+00	8.64E+00	8.09E+00	7.55E+00	7.04E+00	6.56E+00	3.20E+00	3.44E+00	3.78E+00	4.31E+00	4.82E+00	5.20E+00	5.61E+00
33	X/Q (SRC 33)	1.46E+00	1.55E+00	1.60E+00	1.62E+00	1.55E+00	1.46E+00	1.38E+00	1.30E+00	1.19E+00	1.10E+00	1.06E+00	1.03E+00	5.99E-01	6.58E-01	6.68E-01	6.46E-01	6.74E-01	7.56E-01	7.88E-01
34	X/Q (SRC 34)	3.74E+00	3.47E+00	3.18E+00	2.85E+00	2.56E+00	2.39E+00	2.25E+00	2.10E+00	1.95E+00	1.82E+00	1.70E+00	1.58E+00	9.16E-01	1.01E+00	1.19E+00	1.35E+00	1.38E+00	1.50E+00	1.69E+00
35	X/Q (SRC 35)	9.15E-01	9.38E-01	9.81E-01	1.10E+00	1.19E+00	1.31E+00	1.41E+00	1.46E+00	1.50E+00	1.46E+00	1.38E+00	1.31E+00	4.12E-01	4.20E-01	4.31E-01	4.60E-01	5.15E-01	5.79E-01	6.22E-01

ASCON Health Risk

Supplemental HRA

	Rec	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587
1	X/Q (SRC 1)	9.57E-01	1.01E+00	1.05E+00	1.11E+00	1.22E+00	1.34E+00	1.46E+00	1.56E+00	1.60E+00	1.60E+00	1.53E+00	1.46E+00	1.39E+00	1.31E+00	1.22E+00	1.14E+00	1.08E+00	1.04E+00	1.89E+00
2	X/Q (SRC 2)	5.55E-01	5.95E-01	6.28E-01	6.51E-01	6.76E-01	7.00E-01	7.25E-01	7.69E-01	8.31E-01	8.98E-01	9.66E-01	1.03E+00	1.07E+00	1.09E+00	1.08E+00	1.05E+00	1.01E+00	9.71E-01	1.86E+01
3	X/Q (SRC 3)	6.81E-01	6.95E-01	7.25E-01	7.88E-01	8.47E-01	8.86E-01	9.31E-01	9.66E-01	1.02E+00	1.12E+00	1.21E+00	1.33E+00	1.42E+00	1.47E+00	1.47E+00	1.43E+00	1.37E+00	1.30E+00	5.26E+00
4	X/Q (SRC 4)	7.62E-01	8.04E-01	8.83E-01	9.45E-01	9.90E-01	1.04E+00	1.09E+00	1.17E+00	1.29E+00	1.42E+00	1.53E+00	1.60E+00	1.61E+00	1.58E+00	1.51E+00	1.43E+00	1.36E+00	1.27E+00	3.70E+00
5	X/Q (SRC 5)	9.47E-01	9.98E-01	1.06E+00	1.16E+00	1.27E+00	1.36E+00	1.42E+00	1.44E+00	1.43E+00	1.40E+00	1.36E+00	1.32E+00	1.28E+00	1.23E+00	1.19E+00	1.14E+00	1.09E+00	1.04E+00	1.16E+01
6	X/Q (SRC 6)	9.89E-01	1.06E+00	1.14E+00	1.23E+00	1.32E+00	1.43E+00	1.56E+00	1.68E+00	1.77E+00	1.83E+00	1.85E+00	1.84E+00	1.80E+00	1.73E+00	1.65E+00	1.56E+00	1.48E+00	1.40E+00	3.02E+00
7	X/Q (SRC 7)	6.08E-01	6.18E-01	6.41E-01	6.90E-01	7.40E-01	7.72E-01	8.05E-01	8.39E-01	8.73E-01	9.37E-01	1.02E+00	1.11E+00	1.20E+00	1.27E+00	1.30E+00	1.29E+00	1.26E+00	1.21E+00	1.05E+01
8	X/Q (SRC 8)	3.27E-01	3.46E-01	3.66E-01	3.85E-01	4.05E-01	4.26E-01	4.48E-01	4.66E-01	4.90E-01	5.14E-01	5.29E-01	5.46E-01	5.60E-01	5.71E-01	5.74E-01	5.69E-01	5.63E-01	5.55E-01	1.81E+00
9	X/Q (SRC 9)	9.21E-01	9.86E-01	1.06E+00	1.14E+00	1.23E+00	1.33E+00	1.43E+00	1.52E+00	1.60E+00	1.66E+00	1.69E+00	1.69E+00	1.66E+00	1.61E+00	1.54E+00	1.45E+00	1.37E+00	1.29E+00	8.02E+00
10	X/Q (SRC 10)	2.05E+00	2.22E+00	2.43E+00	2.76E+00	3.10E+00	3.29E+00	3.27E+00	3.10E+00	2.88E+00	2.64E+00	2.40E+00	2.20E+00	2.05E+00	1.93E+00	1.81E+00	1.69E+00	1.57E+00	1.47E+00	8.45E-01
11	X/Q (SRC 11)	4.96E-01	5.12E-01	5.46E-01	5.79E-01	6.02E-01	6.21E-01	6.43E-01	6.68E-01	6.95E-01	7.40E-01	8.03E-01	8.64E-01	9.30E-01	9.84E-01	1.01E+00	1.03E+00	1.02E+00	9.91E-01	9.59E+01
12	X/Q (SRC 12)	8.84E-01	9.16E-01	9.71E-01	1.06E+00	1.15E+00	1.25E+00	1.33E+00	1.38E+00	1.39E+00	1.34E+00	1.29E+00	1.23E+00	1.17E+00	1.11E+00	1.04E+00	9.77E-01	9.33E-01	9.00E-01	2.27E+00
13	X/Q (SRC 13)	9.22E-01	9.87E-01	1.06E+00	1.14E+00	1.23E+00	1.33E+00	1.43E+00	1.52E+00	1.60E+00	1.65E+00	1.68E+00	1.69E+00	1.66E+00	1.60E+00	1.53E+00	1.44E+00	1.36E+00	1.29E+00	7.76E+00
14	X/Q (SRC 14)	9.20E-01	9.85E-01	1.05E+00	1.13E+00	1.23E+00	1.33E+00	1.43E+00	1.51E+00	1.59E+00	1.65E+00	1.68E+00	1.68E+00	1.65E+00	1.59E+00	1.52E+00	1.44E+00	1.36E+00	1.28E+00	7.95E+00
15	X/Q (SRC 15)	1.23E+00	1.36E+00	1.51E+00	1.65E+00	1.81E+00	1.98E+00	2.19E+00	2.41E+00	2.64E+00	2.83E+00	2.92E+00	2.92E+00	2.82E+00	2.65E+00	2.45E+00	2.26E+00	2.09E+00	1.94E+00	1.02E+00
16	X/Q (SRC 16)	9.21E-01	9.86E-01	1.06E+00	1.14E+00	1.23E+00	1.33E+00	1.43E+00	1.52E+00	1.60E+00	1.66E+00	1.69E+00	1.69E+00	1.66E+00	1.61E+00	1.54E+00	1.45E+00	1.37E+00	1.29E+00	8.02E+00
17	X/Q (SRC 17)	7.81E-01	8.26E-01	8.65E-01	9.00E-01	9.43E-01	1.00E+00	1.09E+00	1.17E+00	1.26E+00	1.32E+00	1.35E+00	1.34E+00	1.31E+00	1.27E+00	1.22E+00	1.16E+00	1.10E+00	1.05E+00	5.20E+00
18	X/Q (SRC 18)	9.21E-01	9.86E-01	1.06E+00	1.14E+00	1.23E+00	1.33E+00	1.43E+00	1.52E+00	1.60E+00	1.66E+00	1.69E+00	1.69E+00	1.66E+00	1.61E+00	1.54E+00	1.45E+00	1.37E+00	1.29E+00	8.02E+00
19	X/Q (SRC 19)	1.08E+00	1.19E+00	1.30E+00	1.42E+00	1.56E+00	1.71E+00	1.85E+00	1.96E+00	2.04E+00	2.11E+00	2.17E+00	2.20E+00	2.20E+00	2.15E+00	2.06E+00	1.95E+00	1.84E+00	1.72E+00	1.55E+01
20	X/Q (SRC 20)	5.93E-01	6.17E-01	6.49E-01	6.94E-01	7.44E-01	7.87E-01	8.21E-01	8.55E-01	8.96E-01	9.57E-01	1.04E+00	1.12E+00	1.20E+00	1.26E+00	1.29E+00	1.27E+00	1.24E+00	1.20E+00	9.92E+00
21	X/Q (SRC 21)	3.40E-01	3.51E-01	3.65E-01	3.81E-01	3.95E-01	4.08E-01	4.19E-01	4.28E-01	4.39E-01	4.55E-01	4.76E-01	5.05E-01	5.36E-01	5.70E-01	6.03E-01	6.29E-01	6.47E-01	6.57E-01	1.31E+02
22	X/Q (SRC 22)	9.74E-01	1.03E+00	1.08E+00	1.14E+00	1.24E+00	1.36E+00	1.47E+00	1.55E+00	1.59E+00	1.57E+00	1.51E+00	1.45E+00	1.38E+00	1.31E+00	1.23E+00	1.15E+00	1.09E+00	1.04E+00	1.97E+00
23	X/Q (SRC 23)	7.62E-01	8.12E-01	8.83E-01	9.54E-01	1.01E+00	1.06E+00	1.12E+00	1.20E+00	1.31E+00	1.43E+00	1.53E+00	1.59E+00	1.59E+00	1.56E+00	1.50E+00	1.42E+00	1.35E+00	1.28E+00	3.51E+00
24	X/Q (SRC 24)	9.62E-01	1.02E+00	1.08E+00	1.18E+00	1.28E+00	1.37E+00	1.42E+00	1.43E+00	1.42E+00	1.40E+00	1.36E+00	1.32E+00	1.28E+00	1.23E+00	1.18E+00	1.13E+00	1.08E+00	1.03E+00	1.08E+01
25	X/Q (SRC 25)	9.81E-01	1.06E+00	1.15E+00	1.24E+00	1.34E+00	1.46E+00	1.58E+00	1.69E+00	1.77E+00	1.83E+00	1.84E+00	1.83E+00	1.79E+00	1.72E+00	1.65E+00	1.56E+00	1.47E+00	1.39E+00	2.95E+00
26	X/Q (SRC 26)	9.00E-01	9.39E-01	9.95E-01	1.08E+00	1.17E+00	1.26E+00	1.33E+00	1.37E+00	1.37E+00	1.33E+00	1.28E+00	1.23E+00	1.17E+00	1.11E+00	1.05E+00	9.91E-01	9.43E-01	9.05E-01	2.30E+00
27	X/Q (SRC 27)	9.23E-01	9.92E-01	1.07E+00	1.15E+00	1.25E+00	1.35E+00	1.44E+00	1.53E+00	1.60E+00	1.66E+00	1.68E+00	1.68E+00	1.65E+00	1.60E+00	1.53E+00	1.45E+00	1.37E+00	1.29E+00	7.16E+00
28	X/Q (SRC 28)	9.23E-01	9.92E-01	1.07E+00	1.15E+00	1.25E+00	1.35E+00	1.44E+00	1.53E+00	1.60E+00	1.66E+00	1.68E+00	1.68E+00	1.65E+00	1.60E+00	1.53E+00	1.45E+00	1.37E+00	1.29E+00	7.16E+00
29	X/Q (SRC 29)	1.08E+00	1.18E+00	1.30E+00	1.43E+00	1.57E+00	1.72E+00	1.86E+00	1.97E+00	2.05E+00	2.12E+00	2.17E+00	2.20E+00	2.19E+00	2.14E+00	2.05E+00	1.94E+00	1.82E+00	1.71E+00	1.19E+01
30	X/Q (SRC 30)	9.22E-01	9.91E-01	1.07E+00	1.15E+00	1.24E+00	1.34E+00	1.44E+00	1.53E+00	1.60E+00	1.65E+00	1.67E+00	1.67E+00	1.64E+00	1.59E+00	1.51E+00	1.43E+00	1.35E+00	1.28E+00	7.12E+00
31	X/Q (SRC 31)	2.15E+00	2.16E+00	2.14E+00	2.09E+00	2.02E+00	1.93E+00	1.82E+00	1.70E+00	1.58E+00	1.47E+00	1.36E+00	1.26E+00	1.16E+00	1.08E+00	1.00E+00	9.25E-01	8.57E-01	7.95E-01	4.63E-01
32	X/Q (SRC 32)	6.10E+00	6.67E+00	7.15E+00	7.85E+00	8.74E+00	9.81E+00	1.07E+01	1.11E+01	1.09E+01	1.03E+01	9.51E+00	8.68E+00	7.94E+00	7.37E+00	6.95E+00	6.58E+00	6.21E+00	5.85E+00	4.21E+00
33	X/Q (SRC 33)	8.06E-01	8.66E-01	8.79E-01	9.27E-01	1.04E+00	1.11E+00	1.22E+00	1.32E+00	1.36E+00	1.40E+00	1.38E+00	1.31E+00	1.24E+00	1.18E+00	1.11E+00	1.02E+00	9.52E-01	9.15E-01	2.46E+00
34	X/Q (SRC 34)	1.80E+00	1.94E+00	2.11E+00	2.40E+00	2.72E+00	2.94E+00	3.01E+00	2.88E+00	2.68E+00	2.47E+00	2.21E+00	2.02E+00	1.90E+00	1.82E+00	1.72E+00	1.61E+00	1.51E+00	1.43E+00	8.54E-01
35	X/Q (SRC 35)	6.17E-01	5.98E-01	6.35E-01	7.09E-01	7.34E-01	7.47E-01	8.03E-01	8.12E-01	8.50E-01	9.49E-01	1.02E+00	1.11E+00	1.21E+00	1.25E+00	1.29E+00	1.30E+00	1.24E+00	1.18E+00	1.08E+01

ASCON Health Risk

Supplemental HRA

	Rec	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606
1	X/Q (SRC 1)	2.27E+00	2.74E+00	3.32E+00	3.96E+00	4.65E+00	5.37E+00	6.14E+00	6.95E+00	7.74E+00	8.38E+00	8.73E+00	8.77E+00	8.60E+00	8.25E+00	7.73E+00	7.07E+00	6.36E+00	5.68E+00	5.06E+00
2	X/Q (SRC 2)	2.68E+01	3.58E+01	4.27E+01	4.40E+01	4.02E+01	3.37E+01	2.71E+01	2.16E+01	1.73E+01	1.41E+01	1.17E+01	9.76E+00	8.23E+00	7.00E+00	6.01E+00	5.19E+00	4.52E+00	3.96E+00	3.49E+00
3	X/Q (SRC 3)	7.42E+00	1.08E+01	1.63E+01	2.68E+01	5.00E+01	9.20E+01	1.31E+02	1.32E+02	1.00E+02	7.06E+01	4.98E+01	3.58E+01	2.62E+01	1.96E+01	1.51E+01	1.19E+01	9.55E+00	7.78E+00	6.44E+00
4	X/Q (SRC 4)	4.42E+00	5.21E+00	6.42E+00	8.72E+00	1.27E+01	1.85E+01	2.52E+01	3.19E+01	3.66E+01	3.77E+01	3.55E+01	3.08E+01	2.53E+01	2.05E+01	1.67E+01	1.37E+01	1.14E+01	9.52E+00	8.05E+00
5	X/Q (SRC 5)	2.58E+01	6.92E+01	5.99E+01	3.79E+01	2.48E+01	1.77E+01	1.35E+01	1.09E+01	9.23E+00	8.09E+00	7.29E+00	6.69E+00	6.20E+00	5.80E+00	5.45E+00	5.12E+00	4.80E+00	4.47E+00	4.16E+00
6	X/Q (SRC 6)	4.09E+00	5.97E+00	9.79E+00	2.07E+01	7.40E+01	8.87E+01	6.03E+01	4.47E+01	3.60E+01	3.10E+01	2.76E+01	2.47E+01	2.19E+01	1.91E+01	1.66E+01	1.45E+01	1.25E+01	1.09E+01	9.45E+00
7	X/Q (SRC 7)	1.76E+01	3.32E+01	7.84E+01	1.87E+02	2.74E+02	2.71E+02	1.76E+02	1.02E+02	6.20E+01	4.08E+01	2.85E+01	2.07E+01	1.55E+01	1.20E+01	9.44E+00	7.61E+00	6.24E+00	5.19E+00	4.40E+00
8	X/Q (SRC 8)	2.06E+00	2.31E+00	2.62E+00	3.18E+00	4.06E+00	4.92E+00	5.08E+00	4.94E+00	4.64E+00	4.35E+00	4.07E+00	3.77E+00	3.44E+00	3.05E+00	2.72E+00	2.41E+00	2.14E+00	1.89E+00	1.69E+00
9	X/Q (SRC 9)	1.45E+01	1.91E+01	2.17E+01	2.39E+01	2.59E+01	2.74E+01	2.79E+01	2.77E+01	2.73E+01	2.76E+01	2.84E+01	2.93E+01	2.97E+01	2.91E+01	2.78E+01	2.36E+01	1.75E+01	1.32E+01	1.04E+01
10	X/Q (SRC 10)	8.65E-01	8.86E-01	9.25E-01	1.00E+00	1.12E+00	1.29E+00	1.48E+00	1.72E+00	2.02E+00	2.38E+00	2.78E+00	3.19E+00	3.62E+00	4.08E+00	4.57E+00	5.10E+00	5.63E+00	6.04E+00	6.28E+00
11	X/Q (SRC 11)	2.23E+02	2.32E+02	1.47E+02	9.02E+01	5.85E+01	4.01E+01	2.90E+01	2.15E+01	1.63E+01	1.27E+01	1.01E+01	8.15E+00	6.62E+00	5.53E+00	4.66E+00	3.98E+00	3.44E+00	2.99E+00	2.63E+00
12	X/Q (SRC 12)	2.68E+00	3.08E+00	3.49E+00	3.94E+00	4.45E+00	4.97E+00	5.50E+00	5.89E+00	6.15E+00	6.26E+00	6.24E+00	6.10E+00	5.85E+00	5.54E+00	5.15E+00	4.73E+00	4.31E+00	3.90E+00	3.54E+00
13	X/Q (SRC 13)	1.38E+01	1.82E+01	2.08E+01	2.29E+01	2.48E+01	2.63E+01	2.68E+01	2.67E+01	2.64E+01	2.66E+01	2.74E+01	2.82E+01	2.86E+01	2.80E+01	2.68E+01	2.31E+01	1.73E+01	1.31E+01	1.03E+01
14	X/Q (SRC 14)	1.39E+01	1.81E+01	2.06E+01	2.26E+01	2.45E+01	2.60E+01	2.65E+01	2.64E+01	2.61E+01	2.63E+01	2.71E+01	2.79E+01	2.82E+01	2.76E+01	2.63E+01	2.26E+01	1.70E+01	1.29E+01	1.02E+01
15	X/Q (SRC 15)	1.18E+00	1.37E+00	1.60E+00	1.89E+00	2.23E+00	2.65E+00	3.19E+00	3.92E+00	4.95E+00	6.57E+00	9.34E+00	1.43E+01	2.41E+01	4.54E+01	7.69E+01	8.14E+01	6.37E+01	4.70E+01	3.50E+01
16	X/Q (SRC 16)	1.45E+01	1.91E+01	2.17E+01	2.39E+01	2.59E+01	2.74E+01	2.79E+01	2.77E+01	2.73E+01	2.76E+01	2.84E+01	2.93E+01	2.97E+01	2.91E+01	2.78E+01	2.36E+01	1.75E+01	1.32E+01	1.04E+01
17	X/Q (SRC 17)	6.59E+00	8.12E+00	9.77E+00	1.15E+01	1.32E+01	1.45E+01	1.52E+01	1.52E+01	1.45E+01	1.35E+01	1.23E+01	1.09E+01	9.60E+00	8.42E+00	7.38E+00	6.48E+00	5.72E+00	5.07E+00	4.53E+00
18	X/Q (SRC 18)	1.45E+01	1.91E+01	2.17E+01	2.39E+01	2.59E+01	2.74E+01	2.79E+01	2.77E+01	2.73E+01	2.76E+01	2.84E+01	2.93E+01	2.97E+01	2.91E+01	2.78E+01	2.36E+01	1.75E+01	1.32E+01	1.04E+01
19	X/Q (SRC 19)	4.58E+01	6.48E+01	7.04E+01	7.37E+01	7.70E+01	7.88E+01	7.60E+01	7.09E+01	6.65E+01	6.59E+01	6.83E+01	7.25E+01	7.59E+01	7.71E+01	7.98E+01	7.21E+01	4.96E+01	3.29E+01	2.33E+01
20	X/Q (SRC 20)	1.63E+01	2.95E+01	6.42E+01	1.43E+02	2.11E+02	2.16E+02	1.51E+02	9.21E+01	5.78E+01	3.88E+01	2.75E+01	2.02E+01	1.52E+01	1.18E+01	9.38E+00	7.59E+00	6.25E+00	5.21E+00	4.42E+00
21	X/Q (SRC 21)	1.17E+02	9.61E+01	3.61E+01	1.90E+01	1.19E+01	8.32E+00	6.21E+00	4.85E+00	3.92E+00	3.27E+00	2.80E+00	2.42E+00	2.12E+00	1.87E+00	1.67E+00	1.50E+00	1.36E+00	1.24E+00	1.13E+00
22	X/Q (SRC 22)	2.35E+00	2.83E+00	3.39E+00	4.03E+00	4.70E+00	5.41E+00	6.15E+00	6.88E+00	7.53E+00	8.06E+00	8.37E+00	8.44E+00	8.28E+00	7.93E+00	7.44E+00	6.85E+00	6.21E+00	5.59E+00	5.02E+00
23	X/Q (SRC 23)	4.23E+00	5.13E+00	6.48E+00	8.78E+00	1.26E+01	1.81E+01	2.44E+01	3.05E+01	3.44E+01	3.54E+01	3.34E+01	2.93E+01	2.45E+01	2.00E+01	1.64E+01	1.35E+01	1.12E+01	9.38E+00	7.93E+00
24	X/Q (SRC 24)	2.09E+01	4.84E+01	4.79E+01	3.35E+01	2.31E+01	1.69E+01	1.31E+01	1.06E+01	9.02E+00	7.94E+00	7.17E+00	6.59E+00	6.12E+00	5.72E+00	5.36E+00	5.03E+00	4.71E+00	4.39E+00	4.09E+00
25	X/Q (SRC 25)	3.91E+00	5.57E+00	8.82E+00	1.70E+01	4.93E+01	6.60E+01	5.12E+01	4.03E+01	3.34E+01	2.92E+01	2.63E+01	2.36E+01	2.10E+01	1.84E+01	1.61E+01	1.40E+01	1.22E+01	1.06E+01	9.27E+00
26	X/Q (SRC 26)	2.74E+00	3.13E+00	3.53E+00	3.97E+00	4.45E+00	4.93E+00	5.39E+00	5.72E+00	5.94E+00	6.03E+00	6.02E+00	5.90E+00	5.65E+00	5.36E+00	5.00E+00	4.62E+00	4.23E+00	3.86E+00	3.52E+00
27	X/Q (SRC 27)	1.21E+01	1.60E+01	1.85E+01	2.05E+01	2.23E+01	2.37E+01	2.41E+01	2.41E+01	2.40E+01	2.42E+01	2.49E+01	2.56E+01	2.59E+01	2.53E+01	2.42E+01	2.11E+01	1.64E+01	1.27E+01	1.01E+01
28	X/Q (SRC 28)	1.21E+01	1.60E+01	1.85E+01	2.05E+01	2.23E+01	2.37E+01	2.41E+01	2.41E+01	2.40E+01	2.42E+01	2.49E+01	2.56E+01	2.59E+01	2.53E+01	2.42E+01	2.11E+01	1.64E+01	1.27E+01	1.01E+01
29	X/Q (SRC 29)	3.15E+01	4.58E+01	5.14E+01	5.47E+01	5.75E+01	5.94E+01	5.73E+01	5.43E+01	5.16E+01	5.15E+01	5.34E+01	5.65E+01	5.97E+01	6.10E+01	6.40E+01	6.00E+01	4.43E+01	3.07E+01	2.23E+01
30	X/Q (SRC 30)	1.17E+01	1.53E+01	1.77E+01	1.96E+01	2.13E+01	2.27E+01	2.32E+01	2.32E+01	2.30E+01	2.33E+01	2.39E+01	2.45E+01	2.48E+01	2.43E+01	2.32E+01	2.03E+01	1.59E+01	1.24E+01	9.94E+00
31	X/Q (SRC 31)	4.95E-01	5.30E-01	5.70E-01	6.15E-01	6.67E-01	7.26E-01	7.94E-01	8.70E-01	9.56E-01	1.06E+00	1.17E+00	1.30E+00	1.43E+00	1.56E+00	1.70E+00	1.85E+00	1.99E+00	2.13E+00	2.23E+00
32	X/Q (SRC 32)	4.47E+00	4.66E+00	4.83E+00	5.10E+00	5.57E+00	6.33E+00	7.39E+00	8.82E+00	1.07E+01	1.31E+01	1.59E+01	1.90E+01	2.24E+01	2.62E+01	3.04E+01	3.43E+01	3.69E+01	3.75E+01	3.69E+01
33	X/Q (SRC 33)	3.03E+00	3.64E+00	4.24E+00	4.92E+00	5.72E+00	6.64E+00	7.65E+00	8.47E+00	8.80E+00	8.77E+00	8.61E+00	8.31E+00	7.78E+00	7.08E+00	6.30E+00	5.59E+00	4.94E+00	4.37E+00	3.90E+00
34	X/Q (SRC 34)	8.57E-01	8.77E-01	9.35E-01	1.05E+00	1.21E+00	1.39E+00	1.60E+00	1.87E+00	2.22E+00	2.61E+00	3.01E+00	3.43E+00	3.90E+00	4.41E+00	5.00E+00	5.66E+00	6.25E+00	6.55E+00	6.57E+00
35	X/Q (SRC 35)	1.62E+01	2.56E+01	4.77E+01	9.20E+01	1.38E+02	1.42E+02	1.09E+02	7.48E+01	5.08E+01	3.59E+01	2.62E+01	1.97E+01	1.51E+01	1.18E+01	9.45E+00	7.66E+00	6.31E+00	5.25E+00	4.45E+00

ASCON Health Risk

Supplemental HRA

	Rec	607
1	X/Q (SRC 1)	4.54E+00
2	X/Q (SRC 2)	3.09E+00
3	X/Q (SRC 3)	5.39E+00
4	X/Q (SRC 4)	6.86E+00
5	X/Q (SRC 5)	3.88E+00
6	X/Q (SRC 6)	8.22E+00
7	X/Q (SRC 7)	3.82E+00
8	X/Q (SRC 8)	1.52E+00
9	X/Q (SRC 9)	8.59E+00
10	X/Q (SRC 10)	6.34E+00
11	X/Q (SRC 11)	2.36E+00
12	X/Q (SRC 12)	3.26E+00
13	X/Q (SRC 13)	8.52E+00
14	X/Q (SRC 14)	8.43E+00
15	X/Q (SRC 15)	2.66E+01
16	X/Q (SRC 16)	8.59E+00
17	X/Q (SRC 17)	4.10E+00
18	X/Q (SRC 18)	8.59E+00
19	X/Q (SRC 19)	1.76E+01
20	X/Q (SRC 20)	3.85E+00
21	X/Q (SRC 21)	1.04E+00
22	X/Q (SRC 22)	4.52E+00
23	X/Q (SRC 23)	6.75E+00
24	X/Q (SRC 24)	3.82E+00
25	X/Q (SRC 25)	8.07E+00
26	X/Q (SRC 26)	3.25E+00
27	X/Q (SRC 27)	8.41E+00
28	X/Q (SRC 28)	8.41E+00
29	X/Q (SRC 29)	1.71E+01
30	X/Q (SRC 30)	8.26E+00
31	X/Q (SRC 31)	2.30E+00
32	X/Q (SRC 32)	3.56E+01
33	X/Q (SRC 33)	3.58E+00
34	X/Q (SRC 34)	6.48E+00
35	X/Q (SRC 35)	3.85E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	X/Q (SRC 1)	6.13E-01	5.75E-01	5.76E-01	5.77E-01	5.31E-01	4.81E-01	4.77E-01	4.88E-01	4.25E-01	3.33E-01	3.05E-01	3.16E-01	3.45E-01	3.88E-01	4.08E-01
2	X/Q (SRC 2)	6.95E-01	7.56E-01	8.52E-01	9.63E-01	1.03E+00	1.03E+00	9.66E-01	9.18E-01	8.97E-01	8.33E-01	7.65E-01	7.50E-01	6.63E-01	5.42E-01	5.14E-01
3	X/Q (SRC 3)	5.50E-01	6.13E-01	6.81E-01	7.33E-01	7.36E-01	6.94E-01	6.41E-01	6.23E-01	6.28E-01	5.91E-01	5.25E-01	5.10E-01	5.29E-01	4.69E-01	3.64E-01
4	X/Q (SRC 4)	6.30E-01	6.66E-01	6.68E-01	6.35E-01	5.86E-01	5.70E-01	5.76E-01	5.51E-01	4.94E-01	4.63E-01	4.78E-01	4.60E-01	3.66E-01	3.05E-01	3.07E-01
5	X/Q (SRC 5)	6.66E-01	6.85E-01	7.02E-01	7.10E-01	7.14E-01	7.16E-01	7.01E-01	6.56E-01	5.92E-01	5.48E-01	5.18E-01	5.00E-01	5.03E-01	5.12E-01	5.01E-01
6	X/Q (SRC 6)	5.11E-01	5.21E-01	5.31E-01	5.35E-01	5.24E-01	5.08E-01	4.90E-01	4.73E-01	4.53E-01	4.23E-01	3.89E-01	3.63E-01	3.42E-01	3.24E-01	3.09E-01
7	X/Q (SRC 7)	5.61E-01	6.03E-01	6.67E-01	7.42E-01	8.12E-01	8.36E-01	8.08E-01	7.47E-01	7.15E-01	7.20E-01	6.75E-01	6.13E-01	6.04E-01	5.90E-01	4.86E-01
8	X/Q (SRC 8)	1.87E-01	1.97E-01	2.09E-01	2.21E-01	2.31E-01	2.43E-01	2.55E-01	2.59E-01	2.67E-01	2.82E-01	2.86E-01	2.92E-01	2.98E-01	3.04E-01	3.05E-01
9	X/Q (SRC 9)	5.56E-01	5.43E-01	5.21E-01	4.96E-01	4.79E-01	4.70E-01	4.46E-01	4.14E-01	4.02E-01	3.99E-01	3.64E-01	3.18E-01	2.89E-01	2.78E-01	2.81E-01
10	X/Q (SRC 10)	4.27E-01	4.16E-01	4.01E-01	3.83E-01	3.66E-01	3.59E-01	3.51E-01	3.33E-01	3.12E-01	2.94E-01	2.76E-01	2.62E-01	2.48E-01	2.35E-01	2.28E-01
11	X/Q (SRC 11)	5.57E-01	5.95E-01	6.25E-01	6.36E-01	6.30E-01	6.14E-01	5.96E-01	5.68E-01	5.42E-01	5.22E-01	4.95E-01	4.77E-01	4.56E-01	4.10E-01	3.46E-01
12	X/Q (SRC 12)	6.49E-01	6.59E-01	6.56E-01	6.45E-01	6.24E-01	6.02E-01	5.69E-01	5.35E-01	5.19E-01	4.99E-01	4.44E-01	3.86E-01	3.51E-01	3.46E-01	3.68E-01
13	X/Q (SRC 13)	6.93E-01	7.11E-01	7.28E-01	7.44E-01	7.44E-01	7.36E-01	7.19E-01	6.88E-01	6.31E-01	5.68E-01	5.27E-01	5.11E-01	5.11E-01	5.17E-01	5.12E-01
14	X/Q (SRC 14)	5.94E-01	6.08E-01	6.17E-01	6.17E-01	6.06E-01	5.98E-01	5.81E-01	5.47E-01	5.16E-01	4.93E-01	4.58E-01	4.32E-01	4.16E-01	4.04E-01	3.94E-01
15	X/Q (SRC 15)	3.56E-01	3.35E-01	3.14E-01	3.03E-01	3.01E-01	3.03E-01	2.77E-01	2.35E-01	2.03E-01	1.99E-01	2.02E-01	2.14E-01	2.32E-01	2.49E-01	2.57E-01
16	X/Q (SRC 16)	6.76E-01	7.16E-01	7.67E-01	8.20E-01	8.98E-01	9.95E-01	1.06E+00	1.08E+00	1.04E+00	1.02E+00	9.83E-01	9.22E-01	8.64E-01	8.03E-01	6.88E-01
17	X/Q (SRC 17)	7.09E-01	6.79E-01	6.76E-01	6.35E-01	5.68E-01	5.51E-01	5.67E-01	4.90E-01	3.79E-01	3.62E-01	3.82E-01	4.27E-01	4.72E-01	4.76E-01	4.56E-01
18	X/Q (SRC 18)	5.96E-01	6.09E-01	6.17E-01	6.16E-01	6.04E-01	5.96E-01	5.79E-01	5.44E-01	5.12E-01	4.89E-01	4.55E-01	4.31E-01	4.16E-01	4.05E-01	3.94E-01
19	X/Q (SRC 19)	6.07E-01	6.20E-01	6.27E-01	6.23E-01	6.11E-01	5.99E-01	5.81E-01	5.48E-01	5.12E-01	4.83E-01	4.49E-01	4.24E-01	4.10E-01	3.98E-01	3.86E-01
20	X/Q (SRC 20)	1.09E+00	1.19E+00	1.31E+00	1.47E+00	1.64E+00	1.85E+00	2.11E+00	2.44E+00	2.86E+00	3.43E+00	4.14E+00	5.29E+00	7.36E+00	1.21E+01	2.85E+01
21	X/Q (SRC 21)	6.15E-01	5.89E-01	5.79E-01	5.69E-01	5.34E-01	4.99E-01	4.86E-01	4.74E-01	4.25E-01	3.58E-01	3.22E-01	3.27E-01	3.55E-01	3.91E-01	4.08E-01
22	X/Q (SRC 22)	6.02E-01	6.30E-01	6.40E-01	6.29E-01	6.00E-01	5.81E-01	5.70E-01	5.47E-01	5.07E-01	4.79E-01	4.71E-01	4.46E-01	3.82E-01	3.29E-01	3.19E-01
23	X/Q (SRC 23)	6.61E-01	6.80E-01	6.98E-01	7.07E-01	7.05E-01	7.08E-01	6.93E-01	6.49E-01	5.98E-01	5.62E-01	5.27E-01	5.12E-01	5.13E-01	5.16E-01	5.07E-01
24	X/Q (SRC 24)	5.07E-01	5.16E-01	5.24E-01	5.28E-01	5.20E-01	5.08E-01	4.93E-01	4.75E-01	4.54E-01	4.28E-01	3.95E-01	3.69E-01	3.49E-01	3.32E-01	3.19E-01
25	X/Q (SRC 25)	5.71E-01	6.12E-01	6.66E-01	7.23E-01	7.75E-01	7.99E-01	7.92E-01	7.55E-01	7.24E-01	7.15E-01	6.76E-01	6.30E-01	6.09E-01	5.78E-01	5.00E-01
26	X/Q (SRC 26)	5.38E-01	5.33E-01	5.21E-01	5.01E-01	4.82E-01	4.71E-01	4.50E-01	4.17E-01	4.02E-01	3.97E-01	3.67E-01	3.28E-01	3.00E-01	2.88E-01	2.88E-01
27	X/Q (SRC 27)	4.22E-01	4.13E-01	4.02E-01	3.87E-01	3.70E-01	3.63E-01	3.52E-01	3.32E-01	3.13E-01	3.00E-01	2.81E-01	2.66E-01	2.53E-01	2.42E-01	2.36E-01
28	X/Q (SRC 28)	5.47E-01	5.79E-01	6.06E-01	6.19E-01	6.20E-01	6.10E-01	5.96E-01	5.69E-01	5.43E-01	5.28E-01	5.02E-01	4.80E-01	4.55E-01	4.14E-01	3.62E-01
29	X/Q (SRC 29)	6.30E-01	6.42E-01	6.46E-01	6.42E-01	6.24E-01	6.03E-01	5.74E-01	5.44E-01	5.22E-01	4.97E-01	4.49E-01	3.99E-01	3.66E-01	3.60E-01	3.78E-01
30	X/Q (SRC 30)	6.85E-01	7.04E-01	7.22E-01	7.39E-01	7.38E-01	7.32E-01	7.14E-01	6.84E-01	6.36E-01	5.81E-01	5.38E-01	5.21E-01	5.20E-01	5.23E-01	5.19E-01
31	X/Q (SRC 31)	7.15E-01	6.89E-01	6.73E-01	6.29E-01	5.77E-01	5.58E-01	5.54E-01	4.86E-01	4.03E-01	3.80E-01	3.96E-01	4.37E-01	4.72E-01	4.76E-01	4.59E-01
32	X/Q (SRC 32)	2.17E-01	2.08E-01	2.04E-01	2.04E-01	2.03E-01	2.03E-01	2.01E-01	1.99E-01	2.00E-01	2.05E-01	2.10E-01	2.15E-01	2.18E-01	2.19E-01	2.17E-01
33	X/Q (SRC 33)	7.68E-01	6.71E-01	6.42E-01	6.72E-01	6.29E-01	5.47E-01	5.20E-01	5.77E-01	4.94E-01	3.46E-01	3.44E-01	3.57E-01	4.03E-01	4.58E-01	4.66E-01
34	X/Q (SRC 34)	3.88E-01	3.47E-01	3.13E-01	2.93E-01	3.04E-01	3.48E-01	3.09E-01	2.17E-01	1.83E-01	1.97E-01	2.01E-01	2.04E-01	2.35E-01	2.62E-01	2.65E-01
35	X/Q (SRC 35)	5.46E-01	5.99E-01	7.02E-01	8.18E-01	8.97E-01	8.84E-01	7.86E-01	6.97E-01	7.09E-01	7.27E-01	6.29E-01	5.69E-01	6.24E-01	5.78E-01	3.90E-01
36	X/Q (SRC 36)	3.85E-01	3.81E-01	3.65E-01	3.39E-01	3.18E-01	3.18E-01	3.20E-01	2.99E-01	2.60E-01	2.24E-01	2.06E-01	2.07E-01	2.19E-01	2.36E-01	2.54E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	X/Q (SRC 1)	4.05E-01	3.90E-01	3.98E-01	4.35E-01	4.73E-01	4.75E-01	4.45E-01	4.02E-01	3.53E-01	3.10E-01	7.61E-01	7.04E-01	6.62E-01	6.64E-01	6.47E-01
2	X/Q (SRC 2)	5.63E-01	6.22E-01	6.44E-01	6.32E-01	6.56E-01	7.09E-01	7.25E-01	6.85E-01	5.98E-01	5.09E-01	7.77E-01	8.26E-01	8.92E-01	1.00E+00	1.14E+00
3	X/Q (SRC 3)	3.34E-01	3.46E-01	3.80E-01	4.22E-01	4.41E-01	4.33E-01	4.21E-01	4.47E-01	4.92E-01	5.15E-01	5.78E-01	6.28E-01	6.99E-01	7.84E-01	8.44E-01
4	X/Q (SRC 4)	3.24E-01	3.60E-01	3.94E-01	3.99E-01	3.91E-01	3.83E-01	4.05E-01	4.52E-01	4.73E-01	4.60E-01	6.53E-01	7.26E-01	7.71E-01	7.69E-01	7.21E-01
5	X/Q (SRC 5)	4.91E-01	5.02E-01	5.27E-01	5.49E-01	5.55E-01	5.35E-01	5.03E-01	4.72E-01	4.36E-01	3.97E-01	7.51E-01	7.77E-01	7.92E-01	8.10E-01	8.34E-01
6	X/Q (SRC 6)	3.05E-01	3.16E-01	3.33E-01	3.44E-01	3.52E-01	3.55E-01	3.63E-01	3.87E-01	4.11E-01	4.18E-01	5.69E-01	5.81E-01	5.92E-01	6.00E-01	6.01E-01
7	X/Q (SRC 7)	4.01E-01	3.98E-01	4.32E-01	4.83E-01	5.12E-01	5.05E-01	4.97E-01	5.27E-01	5.74E-01	5.87E-01	6.14E-01	6.44E-01	6.82E-01	7.55E-01	8.57E-01
8	X/Q (SRC 8)	3.11E-01	3.11E-01	3.11E-01	3.07E-01	3.05E-01	3.00E-01	2.91E-01	2.85E-01	2.75E-01	2.63E-01	1.98E-01	2.08E-01	2.19E-01	2.32E-01	2.48E-01
9	X/Q (SRC 9)	3.00E-01	3.18E-01	3.26E-01	3.31E-01	3.42E-01	3.54E-01	3.64E-01	3.67E-01	3.63E-01	3.54E-01	6.20E-01	6.28E-01	6.09E-01	5.81E-01	5.60E-01
10	X/Q (SRC 10)	2.33E-01	2.43E-01	2.52E-01	2.59E-01	2.67E-01	2.75E-01	2.82E-01	2.90E-01	2.97E-01	3.03E-01	4.83E-01	4.75E-01	4.57E-01	4.37E-01	4.21E-01
11	X/Q (SRC 11)	3.14E-01	3.22E-01	3.49E-01	3.80E-01	3.99E-01	3.98E-01	3.95E-01	4.10E-01	4.37E-01	4.57E-01	5.83E-01	6.30E-01	6.76E-01	7.10E-01	7.24E-01
12	X/Q (SRC 12)	3.97E-01	4.15E-01	4.22E-01	4.23E-01	4.36E-01	4.55E-01	4.68E-01	4.69E-01	4.44E-01	4.06E-01	7.17E-01	7.50E-01	7.64E-01	7.59E-01	7.45E-01
13	X/Q (SRC 13)	5.06E-01	5.16E-01	5.39E-01	5.55E-01	5.63E-01	5.50E-01	5.22E-01	4.91E-01	4.48E-01	4.02E-01	7.86E-01	8.20E-01	8.40E-01	8.57E-01	8.74E-01
14	X/Q (SRC 14)	3.95E-01	4.05E-01	4.19E-01	4.30E-01	4.37E-01	4.37E-01	4.31E-01	4.23E-01	4.08E-01	3.89E-01	6.61E-01	6.84E-01	6.95E-01	7.03E-01	7.11E-01
15	X/Q (SRC 15)	2.58E-01	2.53E-01	2.51E-01	2.57E-01	2.73E-01	2.89E-01	2.98E-01	2.98E-01	2.87E-01	2.69E-01	4.05E-01	3.86E-01	3.51E-01	3.33E-01	3.38E-01
16	X/Q (SRC 16)	6.10E-01	6.12E-01	6.68E-01	7.11E-01	7.18E-01	7.27E-01	7.60E-01	7.69E-01	7.34E-01	6.60E-01	7.43E-01	7.78E-01	8.14E-01	8.74E-01	9.67E-01
17	X/Q (SRC 17)	4.63E-01	5.07E-01	5.48E-01	5.48E-01	5.10E-01	4.51E-01	3.93E-01	3.43E-01	3.10E-01	2.90E-01	8.79E-01	8.18E-01	7.75E-01	7.55E-01	7.07E-01
18	X/Q (SRC 18)	3.96E-01	4.06E-01	4.21E-01	4.31E-01	4.38E-01	4.37E-01	4.29E-01	4.21E-01	4.06E-01	3.86E-01	6.65E-01	6.86E-01	6.96E-01	7.02E-01	7.09E-01
19	X/Q (SRC 19)	3.88E-01	4.03E-01	4.21E-01	4.34E-01	4.43E-01	4.42E-01	4.36E-01	4.27E-01	4.11E-01	3.90E-01	6.75E-01	6.97E-01	7.09E-01	7.15E-01	7.17E-01
20	X/Q (SRC 20)	1.20E+02	5.23E+01	2.15E+01	1.16E+01	7.62E+00	5.39E+00	4.01E+00	3.19E+00	2.57E+00	2.11E+00	1.16E+00	1.27E+00	1.38E+00	1.53E+00	1.71E+00
21	X/Q (SRC 21)	4.05E-01	3.98E-01	4.08E-01	4.31E-01	4.54E-01	4.53E-01	4.28E-01	3.93E-01	3.53E-01	3.16E-01	7.41E-01	7.12E-01	6.76E-01	6.59E-01	6.41E-01
22	X/Q (SRC 22)	3.35E-01	3.66E-01	3.93E-01	3.97E-01	3.93E-01	3.94E-01	4.10E-01	4.40E-01	4.52E-01	4.39E-01	6.42E-01	6.97E-01	7.32E-01	7.39E-01	7.19E-01
23	X/Q (SRC 23)	5.01E-01	5.09E-01	5.28E-01	5.41E-01	5.42E-01	5.25E-01	4.97E-01	4.69E-01	4.36E-01	4.01E-01	7.47E-01	7.73E-01	7.84E-01	8.03E-01	8.30E-01
24	X/Q (SRC 24)	3.15E-01	3.22E-01	3.36E-01	3.46E-01	3.55E-01	3.59E-01	3.66E-01	3.84E-01	3.99E-01	4.01E-01	5.65E-01	5.78E-01	5.86E-01	5.92E-01	5.95E-01
25	X/Q (SRC 25)	4.29E-01	4.15E-01	4.45E-01	4.87E-01	5.11E-01	5.09E-01	5.08E-01	5.30E-01	5.58E-01	5.62E-01	6.18E-01	6.54E-01	6.92E-01	7.55E-01	8.36E-01
26	X/Q (SRC 26)	3.06E-01	3.21E-01	3.29E-01	3.35E-01	3.44E-01	3.53E-01	3.59E-01	3.60E-01	3.56E-01	3.48E-01	5.99E-01	6.10E-01	5.98E-01	5.80E-01	5.64E-01
27	X/Q (SRC 27)	2.39E-01	2.47E-01	2.55E-01	2.62E-01	2.70E-01	2.77E-01	2.82E-01	2.89E-01	2.94E-01	2.98E-01	4.75E-01	4.69E-01	4.54E-01	4.37E-01	4.26E-01
28	X/Q (SRC 28)	3.32E-01	3.34E-01	3.58E-01	3.83E-01	4.00E-01	4.01E-01	4.01E-01	4.14E-01	4.32E-01	4.43E-01	5.82E-01	6.21E-01	6.57E-01	6.88E-01	7.06E-01
29	X/Q (SRC 29)	4.02E-01	4.17E-01	4.24E-01	4.26E-01	4.37E-01	4.50E-01	4.56E-01	4.53E-01	4.31E-01	3.99E-01	7.02E-01	7.33E-01	7.47E-01	7.48E-01	7.40E-01
30	X/Q (SRC 30)	5.15E-01	5.21E-01	5.38E-01	5.47E-01	5.51E-01	5.38E-01	5.12E-01	4.85E-01	4.46E-01	4.06E-01	7.80E-01	8.13E-01	8.32E-01	8.52E-01	8.68E-01
31	X/Q (SRC 31)	4.75E-01	5.05E-01	5.28E-01	5.23E-01	4.92E-01	4.44E-01	3.95E-01	3.53E-01	3.23E-01	3.03E-01	8.63E-01	8.26E-01	7.80E-01	7.46E-01	7.08E-01
32	X/Q (SRC 32)	2.14E-01	2.10E-01	2.05E-01	2.00E-01	1.95E-01	1.89E-01	1.82E-01	1.75E-01	1.68E-01	1.60E-01	2.49E-01	2.37E-01	2.27E-01	2.27E-01	2.30E-01
33	X/Q (SRC 33)	4.53E-01	4.37E-01	4.91E-01	5.61E-01	5.71E-01	5.30E-01	4.65E-01	3.94E-01	3.36E-01	2.97E-01	9.66E-01	8.80E-01	7.61E-01	7.48E-01	7.81E-01
34	X/Q (SRC 34)	2.69E-01	2.60E-01	2.45E-01	2.55E-01	2.92E-01	3.27E-01	3.38E-01	3.30E-01	3.11E-01	2.85E-01	4.37E-01	4.16E-01	3.61E-01	3.33E-01	3.29E-01
35	X/Q (SRC 35)	3.74E-01	3.91E-01	4.44E-01	5.04E-01	5.14E-01	4.91E-01	4.85E-01	5.61E-01	6.23E-01	6.08E-01	6.25E-01	6.34E-01	6.75E-01	7.88E-01	9.43E-01
36	X/Q (SRC 36)	2.67E-01	2.69E-01	2.65E-01	2.62E-01	2.69E-01	2.88E-01	3.08E-01	3.22E-01	3.21E-01	3.07E-01	4.34E-01	4.29E-01	4.10E-01	3.86E-01	3.66E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1	X/Q (SRC 1)	5.80E-01	5.45E-01	5.54E-01	5.12E-01	3.97E-01	3.58E-01	3.71E-01	4.11E-01	4.59E-01	4.75E-01	4.63E-01	4.56E-01	4.89E-01	5.34E-01	5.49E-01
2	X/Q (SRC 2)	1.24E+00	1.23E+00	1.14E+00	1.11E+00	1.07E+00	9.72E-01	9.27E-01	8.34E-01	6.78E-01	6.42E-01	7.11E-01	7.83E-01	7.90E-01	7.90E-01	8.47E-01
3	X/Q (SRC 3)	8.49E-01	7.93E-01	7.29E-01	7.31E-01	7.21E-01	6.50E-01	5.98E-01	6.14E-01	5.65E-01	4.38E-01	3.94E-01	4.12E-01	4.59E-01	5.06E-01	5.16E-01
4	X/Q (SRC 4)	6.70E-01	6.60E-01	6.50E-01	6.04E-01	5.45E-01	5.49E-01	5.46E-01	4.40E-01	3.56E-01	3.57E-01	3.82E-01	4.32E-01	4.63E-01	4.60E-01	4.47E-01
5	X/Q (SRC 5)	8.46E-01	8.35E-01	7.94E-01	7.43E-01	6.78E-01	6.39E-01	6.22E-01	6.23E-01	6.25E-01	6.11E-01	5.99E-01	6.17E-01	6.48E-01	6.58E-01	6.39E-01
6	X/Q (SRC 6)	5.91E-01	5.72E-01	5.49E-01	5.32E-01	4.97E-01	4.60E-01	4.27E-01	3.99E-01	3.77E-01	3.63E-01	3.56E-01	3.68E-01	3.86E-01	3.98E-01	4.07E-01
7	X/Q (SRC 7)	9.42E-01	9.79E-01	9.28E-01	8.74E-01	8.59E-01	8.33E-01	7.60E-01	7.17E-01	7.10E-01	6.01E-01	4.85E-01	4.76E-01	5.28E-01	5.90E-01	6.10E-01
8	X/Q (SRC 8)	2.63E-01	2.74E-01	2.84E-01	3.00E-01	3.19E-01	3.30E-01	3.36E-01	3.43E-01	3.50E-01	3.56E-01	3.58E-01	3.60E-01	3.62E-01	3.57E-01	3.54E-01
9	X/Q (SRC 9)	5.44E-01	5.14E-01	4.77E-01	4.66E-01	4.59E-01	4.22E-01	3.70E-01	3.35E-01	3.24E-01	3.30E-01	3.48E-01	3.64E-01	3.74E-01	3.84E-01	3.98E-01
10	X/Q (SRC 10)	4.06E-01	3.92E-01	3.73E-01	3.57E-01	3.34E-01	3.12E-01	2.96E-01	2.81E-01	2.67E-01	2.59E-01	2.62E-01	2.72E-01	2.83E-01	2.92E-01	3.03E-01
11	X/Q (SRC 11)	7.20E-01	7.01E-01	6.68E-01	6.48E-01	6.22E-01	5.90E-01	5.63E-01	5.34E-01	4.86E-01	4.14E-01	3.69E-01	3.78E-01	4.15E-01	4.50E-01	4.65E-01
12	X/Q (SRC 12)	7.21E-01	6.83E-01	6.30E-01	6.15E-01	5.94E-01	5.35E-01	4.62E-01	4.18E-01	4.10E-01	4.39E-01	4.72E-01	4.92E-01	4.98E-01	5.04E-01	5.22E-01
13	X/Q (SRC 13)	8.78E-01	8.63E-01	8.31E-01	7.87E-01	7.07E-01	6.57E-01	6.36E-01	6.31E-01	6.29E-01	6.25E-01	6.21E-01	6.39E-01	6.60E-01	6.67E-01	6.56E-01
14	X/Q (SRC 14)	7.04E-01	6.79E-01	6.43E-01	6.22E-01	5.91E-01	5.51E-01	5.21E-01	4.99E-01	4.84E-01	4.73E-01	4.70E-01	4.81E-01	4.99E-01	5.07E-01	5.10E-01
15	X/Q (SRC 15)	3.38E-01	3.10E-01	2.64E-01	2.29E-01	2.22E-01	2.27E-01	2.41E-01	2.63E-01	2.80E-01	2.87E-01	2.83E-01	2.79E-01	2.82E-01	2.95E-01	3.15E-01
16	X/Q (SRC 16)	1.07E+00	1.18E+00	1.25E+00	1.31E+00	1.29E+00	1.24E+00	1.17E+00	1.10E+00	1.02E+00	8.90E-01	7.53E-01	7.50E-01	8.45E-01	8.93E-01	8.96E-01
17	X/Q (SRC 17)	6.52E-01	6.50E-01	5.84E-01	4.61E-01	4.29E-01	4.56E-01	5.20E-01	5.65E-01	5.61E-01	5.42E-01	5.72E-01	6.27E-01	6.44E-01	6.01E-01	5.27E-01
18	X/Q (SRC 18)	7.02E-01	6.76E-01	6.40E-01	6.17E-01	5.87E-01	5.48E-01	5.19E-01	4.99E-01	4.84E-01	4.73E-01	4.71E-01	4.83E-01	5.00E-01	5.08E-01	5.10E-01
19	X/Q (SRC 19)	7.08E-01	6.85E-01	6.48E-01	6.20E-01	5.81E-01	5.40E-01	5.11E-01	4.92E-01	4.78E-01	4.65E-01	4.64E-01	4.81E-01	5.02E-01	5.13E-01	5.16E-01
20	X/Q (SRC 20)	1.93E+00	2.18E+00	2.47E+00	2.96E+00	3.53E+00	4.31E+00	5.39E+00	7.25E+00	1.08E+01	2.04E+01	5.04E+01	1.44E+02	4.05E+01	1.89E+01	1.14E+01
21	X/Q (SRC 21)	5.95E-01	5.62E-01	5.37E-01	5.06E-01	4.25E-01	3.79E-01	3.85E-01	4.21E-01	4.59E-01	4.75E-01	4.68E-01	4.69E-01	4.91E-01	5.17E-01	5.23E-01
22	X/Q (SRC 22)	6.86E-01	6.66E-01	6.38E-01	6.10E-01	5.65E-01	5.52E-01	5.28E-01	4.54E-01	3.84E-01	3.71E-01	3.96E-01	4.38E-01	4.62E-01	4.59E-01	4.55E-01
23	X/Q (SRC 23)	8.38E-01	8.19E-01	7.78E-01	7.43E-01	6.94E-01	6.51E-01	6.34E-01	6.32E-01	6.30E-01	6.18E-01	6.10E-01	6.21E-01	6.43E-01	6.44E-01	6.27E-01
24	X/Q (SRC 24)	5.87E-01	5.72E-01	5.46E-01	5.33E-01	5.02E-01	4.67E-01	4.34E-01	4.07E-01	3.86E-01	3.73E-01	3.67E-01	3.75E-01	3.90E-01	4.01E-01	4.11E-01
25	X/Q (SRC 25)	9.01E-01	9.34E-01	9.09E-01	8.84E-01	8.63E-01	8.27E-01	7.74E-01	7.31E-01	6.99E-01	6.12E-01	5.18E-01	4.97E-01	5.43E-01	5.92E-01	6.10E-01
26	X/Q (SRC 26)	5.45E-01	5.14E-01	4.79E-01	4.67E-01	4.59E-01	4.25E-01	3.82E-01	3.48E-01	3.36E-01	3.40E-01	3.55E-01	3.67E-01	3.79E-01	3.88E-01	3.99E-01
27	X/Q (SRC 27)	4.12E-01	3.92E-01	3.71E-01	3.57E-01	3.40E-01	3.19E-01	3.01E-01	2.87E-01	2.74E-01	2.68E-01	2.69E-01	2.77E-01	2.87E-01	2.96E-01	3.05E-01
28	X/Q (SRC 28)	7.09E-01	6.96E-01	6.66E-01	6.49E-01	6.27E-01	5.97E-01	5.68E-01	5.35E-01	4.89E-01	4.30E-01	3.90E-01	3.93E-01	4.24E-01	4.52E-01	4.67E-01
29	X/Q (SRC 29)	7.20E-01	6.86E-01	6.34E-01	6.21E-01	5.92E-01	5.41E-01	4.77E-01	4.35E-01	4.26E-01	4.50E-01	4.77E-01	4.96E-01	5.01E-01	5.06E-01	5.20E-01
30	X/Q (SRC 30)	8.71E-01	8.57E-01	8.17E-01	7.87E-01	7.21E-01	6.72E-01	6.47E-01	6.40E-01	6.35E-01	6.33E-01	6.31E-01	6.42E-01	6.54E-01	6.55E-01	6.43E-01
31	X/Q (SRC 31)	6.64E-01	6.35E-01	5.71E-01	4.88E-01	4.52E-01	4.73E-01	5.28E-01	5.64E-01	5.63E-01	5.55E-01	5.77E-01	6.09E-01	6.15E-01	5.78E-01	5.18E-01
32	X/Q (SRC 32)	2.29E-01	2.25E-01	2.19E-01	2.27E-01	2.32E-01	2.37E-01	2.40E-01	2.40E-01	2.39E-01	2.36E-01	2.32E-01	2.27E-01	2.21E-01	2.14E-01	2.08E-01
33	X/Q (SRC 33)	6.88E-01	6.07E-01	6.44E-01	6.15E-01	4.20E-01	4.06E-01	4.26E-01	4.94E-01	5.49E-01	5.49E-01	5.17E-01	5.42E-01	6.38E-01	6.70E-01	6.26E-01
34	X/Q (SRC 34)	3.78E-01	3.57E-01	2.53E-01	2.05E-01	2.20E-01	2.24E-01	2.32E-01	2.70E-01	2.94E-01	2.97E-01	2.98E-01	2.80E-01	2.76E-01	3.08E-01	3.53E-01
35	X/Q (SRC 35)	1.05E+00	1.03E+00	8.88E-01	8.25E-01	8.69E-01	8.09E-01	6.96E-01	7.12E-01	7.19E-01	4.86E-01	4.45E-01	4.69E-01	5.51E-01	6.08E-01	6.07E-01
36	X/Q (SRC 36)	3.56E-01	3.53E-01	3.34E-01	2.98E-01	2.55E-01	2.32E-01	2.33E-01	2.47E-01	2.68E-01	2.88E-01	2.99E-01	2.98E-01	2.94E-01	2.96E-01	3.12E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	X/Q (SRC 1)	5.18E-01	4.61E-01	4.01E-01	3.50E-01	3.13E-01	9.13E-01	8.80E-01	8.03E-01	7.65E-01	7.83E-01	7.20E-01	6.40E-01	6.56E-01	6.24E-01	4.81E-01
2	X/Q (SRC 2)	8.84E-01	8.32E-01	7.23E-01	6.11E-01	5.26E-01	8.66E-01	9.19E-01	9.74E-01	1.05E+00	1.22E+00	1.39E+00	1.52E+00	1.52E+00	1.44E+00	1.37E+00
3	X/Q (SRC 3)	5.00E-01	5.05E-01	5.53E-01	5.94E-01	5.82E-01	6.31E-01	6.60E-01	7.10E-01	7.93E-01	9.08E-01	9.87E-01	9.94E-01	9.24E-01	8.70E-01	8.63E-01
4	X/Q (SRC 4)	4.56E-01	5.01E-01	5.37E-01	5.31E-01	4.89E-01	6.64E-01	7.44E-01	8.33E-01	8.96E-01	8.93E-01	8.31E-01	7.75E-01	7.77E-01	7.46E-01	6.60E-01
5	X/Q (SRC 5)	5.99E-01	5.56E-01	5.14E-01	4.69E-01	4.25E-01	8.46E-01	8.74E-01	8.99E-01	9.22E-01	9.82E-01	1.00E+00	1.00E+00	9.97E-01	9.59E-01	8.70E-01
6	X/Q (SRC 6)	4.13E-01	4.30E-01	4.58E-01	4.75E-01	4.60E-01	6.31E-01	6.45E-01	6.57E-01	6.68E-01	6.86E-01	6.83E-01	6.70E-01	6.60E-01	6.38E-01	5.90E-01
7	X/Q (SRC 7)	5.96E-01	6.09E-01	6.63E-01	6.92E-01	6.58E-01	6.75E-01	7.00E-01	7.33E-01	7.81E-01	8.89E-01	1.00E+00	1.11E+00	1.16E+00	1.12E+00	1.06E+00
8	X/Q (SRC 8)	3.45E-01	3.32E-01	3.20E-01	3.06E-01	2.91E-01	2.06E-01	2.15E-01	2.28E-01	2.43E-01	2.65E-01	2.83E-01	2.98E-01	3.19E-01	3.46E-01	3.61E-01
9	X/Q (SRC 9)	4.11E-01	4.15E-01	4.10E-01	3.98E-01	3.82E-01	6.71E-01	7.02E-01	7.07E-01	6.85E-01	6.71E-01	6.40E-01	6.04E-01	5.77E-01	5.59E-01	5.40E-01
10	X/Q (SRC 10)	3.12E-01	3.20E-01	3.27E-01	3.34E-01	3.37E-01	5.40E-01	5.38E-01	5.24E-01	5.02E-01	4.89E-01	4.65E-01	4.45E-01	4.33E-01	4.15E-01	3.84E-01
11	X/Q (SRC 11)	4.62E-01	4.67E-01	4.94E-01	5.21E-01	5.22E-01	6.13E-01	6.58E-01	7.12E-01	7.66E-01	8.18E-01	8.37E-01	8.30E-01	8.17E-01	7.96E-01	7.53E-01
12	X/Q (SRC 12)	5.39E-01	5.38E-01	5.12E-01	4.68E-01	4.18E-01	7.77E-01	8.28E-01	8.65E-01	8.83E-01	8.94E-01	8.74E-01	8.31E-01	7.89E-01	7.48E-01	7.14E-01
13	X/Q (SRC 13)	6.23E-01	5.78E-01	5.28E-01	4.75E-01	4.27E-01	8.84E-01	9.28E-01	9.64E-01	9.88E-01	1.03E+00	1.05E+00	1.04E+00	1.04E+00	9.95E-01	8.98E-01
14	X/Q (SRC 14)	5.03E-01	4.89E-01	4.71E-01	4.49E-01	4.23E-01	7.29E-01	7.56E-01	7.79E-01	7.96E-01	8.33E-01	8.30E-01	8.08E-01	7.93E-01	7.76E-01	7.26E-01
15	X/Q (SRC 15)	3.28E-01	3.29E-01	3.17E-01	2.98E-01	2.74E-01	4.58E-01	4.35E-01	4.02E-01	3.74E-01	3.79E-01	3.79E-01	3.51E-01	3.05E-01	2.65E-01	2.49E-01
16	X/Q (SRC 16)	9.26E-01	9.53E-01	9.15E-01	8.15E-01	7.04E-01	8.19E-01	8.57E-01	8.99E-01	9.51E-01	1.07E+00	1.17E+00	1.28E+00	1.45E+00	1.62E+00	1.67E+00
17	X/Q (SRC 17)	4.54E-01	3.95E-01	3.56E-01	3.33E-01	3.20E-01	1.07E+00	1.02E+00	9.42E-01	8.93E-01	8.93E-01	7.99E-01	7.65E-01	7.36E-01	5.84E-01	5.27E-01
18	X/Q (SRC 18)	5.01E-01	4.87E-01	4.68E-01	4.46E-01	4.20E-01	7.35E-01	7.61E-01	7.82E-01	7.96E-01	8.32E-01	8.28E-01	8.05E-01	7.89E-01	7.71E-01	7.20E-01
19	X/Q (SRC 19)	5.07E-01	4.93E-01	4.74E-01	4.50E-01	4.21E-01	7.45E-01	7.75E-01	7.99E-01	8.14E-01	8.44E-01	8.40E-01	8.18E-01	8.01E-01	7.73E-01	7.17E-01
20	X/Q (SRC 20)	7.53E+00	5.36E+00	4.06E+00	3.21E+00	2.59E+00	1.18E+00	1.28E+00	1.39E+00	1.52E+00	1.73E+00	1.93E+00	2.16E+00	2.51E+00	2.93E+00	3.45E+00
21	X/Q (SRC 21)	4.97E-01	4.50E-01	4.01E-01	3.58E-01	3.25E-01	8.70E-01	8.60E-01	8.13E-01	7.74E-01	7.74E-01	7.25E-01	6.55E-01	6.53E-01	6.12E-01	5.10E-01
22	X/Q (SRC 22)	4.67E-01	4.94E-01	5.14E-01	5.07E-01	4.71E-01	6.73E-01	7.36E-01	8.00E-01	8.47E-01	8.61E-01	8.32E-01	7.93E-01	7.74E-01	7.38E-01	6.77E-01
23	X/Q (SRC 23)	5.92E-01	5.53E-01	5.14E-01	4.73E-01	4.33E-01	8.42E-01	8.66E-01	8.89E-01	9.12E-01	9.77E-01	9.91E-01	9.81E-01	9.77E-01	9.55E-01	8.81E-01
24	X/Q (SRC 24)	4.17E-01	4.30E-01	4.48E-01	4.56E-01	4.41E-01	6.24E-01	6.39E-01	6.51E-01	6.60E-01	6.80E-01	6.78E-01	6.63E-01	6.57E-01	6.35E-01	5.94E-01
25	X/Q (SRC 25)	6.06E-01	6.19E-01	6.51E-01	6.63E-01	6.32E-01	6.75E-01	6.99E-01	7.36E-01	7.88E-01	8.93E-01	9.81E-01	1.06E+00	1.11E+00	1.11E+00	1.07E+00
26	X/Q (SRC 26)	4.08E-01	4.09E-01	4.03E-01	3.92E-01	3.77E-01	6.54E-01	6.77E-01	6.84E-01	6.72E-01	6.70E-01	6.43E-01	6.04E-01	5.78E-01	5.66E-01	5.42E-01
27	X/Q (SRC 27)	3.13E-01	3.19E-01	3.24E-01	3.29E-01	3.29E-01	5.29E-01	5.27E-01	5.16E-01	4.98E-01	4.92E-01	4.69E-01	4.46E-01	4.31E-01	4.18E-01	3.90E-01
28	X/Q (SRC 28)	4.67E-01	4.73E-01	4.91E-01	5.07E-01	5.03E-01	6.18E-01	6.55E-01	6.99E-01	7.44E-01	7.96E-01	8.19E-01	8.15E-01	8.08E-01	7.94E-01	7.57E-01
29	X/Q (SRC 29)	5.28E-01	5.20E-01	4.97E-01	4.60E-01	4.18E-01	7.66E-01	8.11E-01	8.44E-01	8.62E-01	8.81E-01	8.67E-01	8.26E-01	7.95E-01	7.56E-01	7.12E-01
30	X/Q (SRC 30)	6.13E-01	5.71E-01	5.26E-01	4.80E-01	4.37E-01	8.78E-01	9.20E-01	9.51E-01	9.76E-01	1.03E+00	1.04E+00	1.03E+00	1.03E+00	9.87E-01	9.06E-01
31	X/Q (SRC 31)	4.58E-01	4.08E-01	3.72E-01	3.48E-01	3.33E-01	1.03E+00	1.00E+00	9.47E-01	8.91E-01	8.84E-01	8.10E-01	7.56E-01	7.15E-01	6.20E-01	5.56E-01
32	X/Q (SRC 32)	2.00E-01	1.92E-01	1.83E-01	1.75E-01	1.66E-01	2.84E-01	2.65E-01	2.57E-01	2.56E-01	2.63E-01	2.59E-01	2.51E-01	2.56E-01	2.61E-01	2.64E-01
33	X/Q (SRC 33)	5.44E-01	4.54E-01	3.83E-01	3.38E-01	3.13E-01	1.10E+00	1.13E+00	1.00E+00	8.77E-01	9.27E-01	8.86E-01	7.45E-01	7.53E-01	7.78E-01	5.28E-01
34	X/Q (SRC 34)	3.75E-01	3.67E-01	3.46E-01	3.17E-01	2.80E-01	4.76E-01	4.82E-01	4.27E-01	3.84E-01	3.67E-01	4.08E-01	4.12E-01	3.00E-01	2.34E-01	2.47E-01
35	X/Q (SRC 35)	5.73E-01	6.29E-01	7.24E-01	7.25E-01	6.51E-01	7.03E-01	7.28E-01	7.37E-01	7.73E-01	9.18E-01	1.10E+00	1.24E+00	1.22E+00	1.07E+00	1.02E+00
36	X/Q (SRC 36)	3.36E-01	3.53E-01	3.55E-01	3.42E-01	3.17E-01	4.99E-01	4.79E-01	4.64E-01	4.41E-01	4.26E-01	4.02E-01	3.94E-01	3.83E-01	3.46E-01	2.94E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
1	X/Q (SRC 1)	4.25E-01	4.44E-01	4.99E-01	5.48E-01	5.57E-01	5.39E-01	5.58E-01	6.12E-01	6.40E-01	6.11E-01	5.42E-01	4.65E-01	3.99E-01	3.56E-01	3.32E-01
2	X/Q (SRC 2)	1.27E+00	1.18E+00	1.07E+00	8.74E-01	8.27E-01	9.25E-01	1.00E+00	9.97E-01	1.04E+00	1.10E+00	1.05E+00	9.08E-01	7.49E-01	6.43E-01	5.82E-01
3	X/Q (SRC 3)	8.17E-01	7.28E-01	7.22E-01	6.88E-01	5.39E-01	4.74E-01	4.99E-01	5.62E-01	6.11E-01	6.10E-01	5.97E-01	6.36E-01	6.88E-01	6.89E-01	6.30E-01
4	X/Q (SRC 4)	6.36E-01	6.48E-01	5.39E-01	4.24E-01	4.23E-01	4.61E-01	5.23E-01	5.47E-01	5.35E-01	5.29E-01	5.71E-01	6.22E-01	6.18E-01	5.71E-01	5.00E-01
5	X/Q (SRC 5)	8.13E-01	7.94E-01	7.94E-01	7.80E-01	7.69E-01	7.60E-01	7.81E-01	7.97E-01	7.80E-01	7.32E-01	6.76E-01	6.24E-01	5.66E-01	5.11E-01	4.63E-01
6	X/Q (SRC 6)	5.47E-01	5.10E-01	4.73E-01	4.46E-01	4.32E-01	4.21E-01	4.32E-01	4.52E-01	4.68E-01	4.81E-01	4.94E-01	5.21E-01	5.42E-01	5.32E-01	4.88E-01
7	X/Q (SRC 7)	1.03E+00	9.69E-01	8.84E-01	8.64E-01	7.59E-01	6.02E-01	5.89E-01	6.62E-01	7.31E-01	7.37E-01	7.33E-01	7.83E-01	8.28E-01	7.98E-01	7.04E-01
8	X/Q (SRC 8)	3.78E-01	3.91E-01	4.01E-01	4.08E-01	4.23E-01	4.22E-01	4.30E-01	4.26E-01	4.21E-01	4.15E-01	4.02E-01	3.84E-01	3.63E-01	3.44E-01	3.26E-01
9	X/Q (SRC 9)	5.00E-01	4.37E-01	3.94E-01	3.83E-01	3.92E-01	4.10E-01	4.26E-01	4.39E-01	4.55E-01	4.70E-01	4.77E-01	4.70E-01	4.53E-01	4.33E-01	4.11E-01
10	X/Q (SRC 10)	3.57E-01	3.37E-01	3.22E-01	3.06E-01	2.98E-01	2.99E-01	3.10E-01	3.21E-01	3.33E-01	3.47E-01	3.58E-01	3.66E-01	3.70E-01	3.73E-01	3.71E-01
11	X/Q (SRC 11)	7.15E-01	6.80E-01	6.38E-01	5.82E-01	5.05E-01	4.43E-01	4.56E-01	5.01E-01	5.39E-01	5.50E-01	5.50E-01	5.72E-01	6.01E-01	6.08E-01	5.78E-01
12	X/Q (SRC 12)	6.52E-01	5.63E-01	5.08E-01	4.98E-01	5.34E-01	5.71E-01	5.92E-01	6.00E-01	6.12E-01	6.32E-01	6.34E-01	6.04E-01	5.47E-01	4.86E-01	4.33E-01
13	X/Q (SRC 13)	8.35E-01	8.12E-01	8.03E-01	7.86E-01	7.86E-01	7.85E-01	8.01E-01	8.11E-01	7.98E-01	7.63E-01	7.08E-01	6.44E-01	5.72E-01	5.13E-01	4.68E-01
14	X/Q (SRC 14)	6.79E-01	6.40E-01	6.13E-01	5.91E-01	5.81E-01	5.73E-01	5.86E-01	6.00E-01	6.05E-01	6.00E-01	5.83E-01	5.59E-01	5.27E-01	4.95E-01	4.63E-01
15	X/Q (SRC 15)	2.56E-01	2.75E-01	3.00E-01	3.17E-01	3.21E-01	3.15E-01	3.13E-01	3.23E-01	3.43E-01	3.62E-01	3.67E-01	3.55E-01	3.31E-01	3.04E-01	2.76E-01
16	X/Q (SRC 16)	1.63E+00	1.55E+00	1.44E+00	1.34E+00	1.17E+00	9.81E-01	1.00E+00	1.11E+00	1.15E+00	1.17E+00	1.20E+00	1.17E+00	1.04E+00	8.92E-01	7.70E-01
17	X/Q (SRC 17)	5.63E-01	6.47E-01	6.86E-01	6.68E-01	6.72E-01	7.35E-01	7.66E-01	7.23E-01	6.30E-01	5.33E-01	4.61E-01	4.16E-01	3.89E-01	3.75E-01	3.64E-01
18	X/Q (SRC 18)	6.75E-01	6.39E-01	6.12E-01	5.91E-01	5.81E-01	5.75E-01	5.88E-01	6.01E-01	6.04E-01	5.97E-01	5.80E-01	5.55E-01	5.23E-01	4.92E-01	4.60E-01
19	X/Q (SRC 19)	6.68E-01	6.31E-01	6.05E-01	5.84E-01	5.74E-01	5.69E-01	5.88E-01	6.06E-01	6.11E-01	6.04E-01	5.86E-01	5.60E-01	5.27E-01	4.92E-01	4.57E-01
20	X/Q (SRC 20)	4.24E+00	5.35E+00	7.04E+00	9.79E+00	1.63E+01	3.27E+01	1.07E+02	5.72E+01	2.60E+01	1.51E+01	9.73E+00	6.78E+00	4.97E+00	3.86E+00	3.09E+00
21	X/Q (SRC 21)	4.51E-01	4.61E-01	5.08E-01	5.46E-01	5.57E-01	5.51E-01	5.68E-01	5.98E-01	6.10E-01	5.85E-01	5.29E-01	4.65E-01	4.10E-01	3.72E-01	3.47E-01
22	X/Q (SRC 22)	6.49E-01	6.29E-01	5.48E-01	4.55E-01	4.40E-01	4.76E-01	5.26E-01	5.44E-01	5.37E-01	5.43E-01	5.71E-01	5.98E-01	5.88E-01	5.50E-01	4.93E-01
23	X/Q (SRC 23)	8.28E-01	8.07E-01	8.01E-01	7.86E-01	7.78E-01	7.67E-01	7.79E-01	7.85E-01	7.65E-01	7.25E-01	6.75E-01	6.25E-01	5.70E-01	5.21E-01	4.78E-01
24	X/Q (SRC 24)	5.55E-01	5.17E-01	4.83E-01	4.55E-01	4.43E-01	4.34E-01	4.41E-01	4.57E-01	4.72E-01	4.84E-01	4.96E-01	5.13E-01	5.21E-01	5.10E-01	4.73E-01
25	X/Q (SRC 25)	1.03E+00	9.72E-01	9.04E-01	8.56E-01	7.65E-01	6.40E-01	6.16E-01	6.75E-01	7.31E-01	7.41E-01	7.46E-01	7.78E-01	7.94E-01	7.64E-01	6.89E-01
26	X/Q (SRC 26)	5.02E-01	4.49E-01	4.09E-01	3.96E-01	4.04E-01	4.17E-01	4.30E-01	4.44E-01	4.57E-01	4.67E-01	4.70E-01	4.63E-01	4.46E-01	4.29E-01	4.08E-01
27	X/Q (SRC 27)	3.65E-01	3.44E-01	3.28E-01	3.14E-01	3.07E-01	3.07E-01	3.15E-01	3.26E-01	3.37E-01	3.49E-01	3.58E-01	3.63E-01	3.65E-01	3.66E-01	3.62E-01
28	X/Q (SRC 28)	7.22E-01	6.85E-01	6.42E-01	5.85E-01	5.21E-01	4.68E-01	4.73E-01	5.09E-01	5.41E-01	5.53E-01	5.58E-01	5.73E-01	5.87E-01	5.87E-01	5.60E-01
29	X/Q (SRC 29)	6.56E-01	5.80E-01	5.27E-01	5.15E-01	5.45E-01	5.77E-01	5.96E-01	6.02E-01	6.10E-01	6.22E-01	6.16E-01	5.87E-01	5.37E-01	4.87E-01	4.41E-01
30	X/Q (SRC 30)	8.50E-01	8.23E-01	8.10E-01	7.92E-01	7.93E-01	7.93E-01	7.99E-01	7.99E-01	7.83E-01	7.52E-01	7.02E-01	6.42E-01	5.77E-01	5.25E-01	4.84E-01
31	X/Q (SRC 31)	5.83E-01	6.52E-01	6.84E-01	6.76E-01	6.85E-01	7.21E-01	7.32E-01	6.95E-01	6.20E-01	5.40E-01	4.78E-01	4.36E-01	4.07E-01	3.89E-01	3.75E-01
32	X/Q (SRC 32)	2.67E-01	2.67E-01	2.65E-01	2.61E-01	2.57E-01	2.52E-01	2.46E-01	2.37E-01	2.29E-01	2.22E-01	2.13E-01	2.03E-01	1.92E-01	1.83E-01	1.75E-01
33	X/Q (SRC 33)	4.91E-01	5.22E-01	6.19E-01	6.65E-01	6.48E-01	6.25E-01	7.25E-01	8.00E-01	7.54E-01	6.49E-01	5.33E-01	4.44E-01	3.91E-01	3.65E-01	3.55E-01
34	X/Q (SRC 34)	2.52E-01	2.68E-01	3.13E-01	3.31E-01	3.36E-01	3.27E-01	3.09E-01	3.28E-01	3.80E-01	4.17E-01	4.15E-01	3.90E-01	3.53E-01	3.11E-01	2.71E-01
35	X/Q (SRC 35)	1.04E+00	8.99E-01	8.39E-01	8.92E-01	6.24E-01	5.44E-01	5.84E-01	6.98E-01	7.46E-01	7.19E-01	7.26E-01	8.50E-01	8.80E-01	7.92E-01	6.57E-01
36	X/Q (SRC 36)	2.64E-01	2.65E-01	2.83E-01	3.07E-01	3.29E-01	3.36E-01	3.34E-01	3.32E-01	3.43E-01	3.68E-01	3.91E-01	3.97E-01	3.82E-01	3.55E-01	3.21E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1	X/Q (SRC 1)	1.03E+00	1.05E+00	1.02E+00	9.50E-01	9.43E-01	9.09E-01	7.98E-01	7.86E-01	7.67E-01	5.99E-01	5.14E-01	5.42E-01	6.19E-01	6.70E-01	6.61E-01
2	X/Q (SRC 2)	9.63E-01	9.93E-01	1.09E+00	1.20E+00	1.33E+00	1.51E+00	1.74E+00	1.95E+00	1.94E+00	1.82E+00	1.71E+00	1.57E+00	1.43E+00	1.19E+00	1.11E+00
3	X/Q (SRC 3)	6.93E-01	7.06E-01	7.61E-01	8.32E-01	9.40E-01	1.07E+00	1.18E+00	1.19E+00	1.10E+00	1.04E+00	1.03E+00	9.24E-01	8.70E-01	8.58E-01	6.81E-01
4	X/Q (SRC 4)	7.04E-01	7.43E-01	8.51E-01	9.70E-01	1.05E+00	1.05E+00	9.72E-01	9.29E-01	9.18E-01	8.35E-01	7.58E-01	7.73E-01	6.73E-01	5.21E-01	5.12E-01
5	X/Q (SRC 5)	9.51E-01	9.53E-01	1.03E+00	1.10E+00	1.17E+00	1.21E+00	1.23E+00	1.26E+00	1.24E+00	1.15E+00	1.07E+00	1.05E+00	1.05E+00	1.02E+00	1.01E+00
6	X/Q (SRC 6)	6.94E-01	7.01E-01	7.33E-01	7.62E-01	7.84E-01	7.90E-01	7.85E-01	7.90E-01	7.74E-01	7.21E-01	6.60E-01	6.18E-01	5.76E-01	5.43E-01	5.25E-01
7	X/Q (SRC 7)	7.31E-01	7.42E-01	8.07E-01	8.74E-01	9.61E-01	1.05E+00	1.19E+00	1.35E+00	1.43E+00	1.37E+00	1.30E+00	1.25E+00	1.14E+00	1.08E+00	9.77E-01
8	X/Q (SRC 8)	2.09E-01	2.19E-01	2.37E-01	2.58E-01	2.85E-01	3.04E-01	3.26E-01	3.57E-01	3.88E-01	4.12E-01	4.35E-01	4.57E-01	4.76E-01	4.90E-01	5.07E-01
9	X/Q (SRC 9)	7.07E-01	7.36E-01	7.95E-01	8.21E-01	8.16E-01	7.78E-01	7.33E-01	7.09E-01	6.76E-01	6.46E-01	6.00E-01	5.27E-01	4.71E-01	4.62E-01	4.74E-01
10	X/Q (SRC 10)	5.95E-01	5.88E-01	5.98E-01	5.92E-01	5.76E-01	5.45E-01	5.17E-01	5.07E-01	4.83E-01	4.48E-01	4.13E-01	3.88E-01	3.72E-01	3.57E-01	3.46E-01
11	X/Q (SRC 11)	6.50E-01	6.71E-01	7.47E-01	8.30E-01	9.08E-01	9.56E-01	9.78E-01	9.90E-01	9.80E-01	9.36E-01	8.82E-01	8.39E-01	7.84E-01	7.16E-01	6.26E-01
12	X/Q (SRC 12)	8.36E-01	8.79E-01	9.63E-01	1.03E+00	1.06E+00	1.07E+00	1.04E+00	1.00E+00	9.36E-01	8.83E-01	8.09E-01	7.01E-01	6.33E-01	6.27E-01	6.65E-01
13	X/Q (SRC 13)	9.95E-01	1.02E+00	1.11E+00	1.18E+00	1.24E+00	1.27E+00	1.29E+00	1.31E+00	1.27E+00	1.18E+00	1.09E+00	1.07E+00	1.06E+00	1.04E+00	1.03E+00
14	X/Q (SRC 14)	7.95E-01	8.07E-01	8.73E-01	9.31E-01	9.82E-01	9.92E-01	9.83E-01	9.93E-01	9.68E-01	9.13E-01	8.55E-01	8.09E-01	7.75E-01	7.49E-01	7.33E-01
15	X/Q (SRC 15)	5.12E-01	4.76E-01	4.66E-01	4.40E-01	4.33E-01	4.28E-01	4.03E-01	3.58E-01	3.05E-01	2.84E-01	2.92E-01	3.17E-01	3.46E-01	3.62E-01	3.62E-01
16	X/Q (SRC 16)	8.99E-01	9.17E-01	1.01E+00	1.10E+00	1.23E+00	1.32E+00	1.43E+00	1.65E+00	1.90E+00	2.11E+00	2.18E+00	2.12E+00	1.99E+00	1.83E+00	1.60E+00
17	X/Q (SRC 17)	1.22E+00	1.21E+00	1.20E+00	1.15E+00	1.15E+00	1.03E+00	9.42E-01	9.41E-01	7.50E-01	6.59E-01	7.19E-01	8.25E-01	8.44E-01	8.27E-01	8.80E-01
18	X/Q (SRC 18)	8.03E-01	8.14E-01	8.79E-01	9.34E-01	9.84E-01	9.91E-01	9.80E-01	9.88E-01	9.61E-01	9.05E-01	8.49E-01	8.07E-01	7.74E-01	7.48E-01	7.33E-01
19	X/Q (SRC 19)	8.16E-01	8.31E-01	8.98E-01	9.55E-01	1.00E+00	1.01E+00	9.99E-01	1.00E+00	9.69E-01	9.07E-01	8.46E-01	8.01E-01	7.68E-01	7.42E-01	7.28E-01
20	X/Q (SRC 20)	1.17E+00	1.24E+00	1.37E+00	1.53E+00	1.71E+00	1.91E+00	2.14E+00	2.49E+00	2.88E+00	3.40E+00	4.14E+00	5.23E+00	6.86E+00	9.47E+00	1.46E+01
21	X/Q (SRC 21)	9.80E-01	9.91E-01	9.99E-01	9.65E-01	9.44E-01	9.00E-01	8.10E-01	7.95E-01	7.49E-01	6.27E-01	5.45E-01	5.62E-01	6.26E-01	6.66E-01	6.66E-01
22	X/Q (SRC 22)	7.18E-01	7.52E-01	8.44E-01	9.36E-01	9.99E-01	1.02E+00	9.78E-01	9.42E-01	9.04E-01	8.39E-01	7.79E-01	7.56E-01	6.74E-01	5.59E-01	5.34E-01
23	X/Q (SRC 23)	9.41E-01	9.42E-01	1.02E+00	1.09E+00	1.17E+00	1.19E+00	1.21E+00	1.24E+00	1.22E+00	1.15E+00	1.08E+00	1.06E+00	1.05E+00	1.03E+00	1.02E+00
24	X/Q (SRC 24)	6.85E-01	6.90E-01	7.25E-01	7.54E-01	7.77E-01	7.85E-01	7.78E-01	7.84E-01	7.65E-01	7.21E-01	6.69E-01	6.25E-01	5.85E-01	5.54E-01	5.35E-01
25	X/Q (SRC 25)	7.31E-01	7.40E-01	8.03E-01	8.74E-01	9.73E-01	1.06E+00	1.17E+00	1.30E+00	1.37E+00	1.36E+00	1.31E+00	1.25E+00	1.16E+00	1.09E+00	9.78E-01
26	X/Q (SRC 26)	6.95E-01	7.13E-01	7.66E-01	7.96E-01	8.04E-01	7.76E-01	7.33E-01	7.09E-01	6.83E-01	6.50E-01	6.03E-01	5.40E-01	4.89E-01	4.76E-01	4.86E-01
27	X/Q (SRC 27)	5.82E-01	5.74E-01	5.85E-01	5.83E-01	5.74E-01	5.47E-01	5.20E-01	5.10E-01	4.86E-01	4.53E-01	4.21E-01	3.97E-01	3.79E-01	3.65E-01	3.56E-01
28	X/Q (SRC 28)	6.53E-01	6.73E-01	7.42E-01	8.16E-01	8.88E-01	9.33E-01	9.56E-01	9.75E-01	9.69E-01	9.34E-01	8.87E-01	8.42E-01	7.88E-01	7.22E-01	6.43E-01
29	X/Q (SRC 29)	8.27E-01	8.61E-01	9.41E-01	1.00E+00	1.04E+00	1.05E+00	1.03E+00	1.00E+00	9.42E-01	8.82E-01	8.09E-01	7.18E-01	6.55E-01	6.46E-01	6.76E-01
30	X/Q (SRC 30)	9.85E-01	1.01E+00	1.09E+00	1.17E+00	1.23E+00	1.27E+00	1.28E+00	1.30E+00	1.26E+00	1.17E+00	1.10E+00	1.08E+00	1.06E+00	1.04E+00	1.03E+00
31	X/Q (SRC 31)	1.16E+00	1.15E+00	1.18E+00	1.15E+00	1.14E+00	1.03E+00	9.41E-01	9.13E-01	7.87E-01	6.96E-01	7.41E-01	8.26E-01	8.45E-01	8.43E-01	8.75E-01
32	X/Q (SRC 32)	3.22E-01	2.92E-01	2.95E-01	3.01E-01	3.05E-01	2.98E-01	2.91E-01	2.99E-01	3.02E-01	3.01E-01	3.00E-01	2.97E-01	2.93E-01	2.88E-01	2.82E-01
33	X/Q (SRC 33)	1.10E+00	1.25E+00	1.33E+00	1.20E+00	1.11E+00	1.13E+00	9.78E-01	9.12E-01	9.78E-01	6.84E-01	6.08E-01	6.60E-01	7.89E-01	8.22E-01	7.79E-01
34	X/Q (SRC 34)	5.16E-01	5.19E-01	5.13E-01	4.58E-01	4.24E-01	4.44E-01	4.78E-01	3.64E-01	2.70E-01	2.80E-01	2.87E-01	3.14E-01	3.65E-01	3.79E-01	3.81E-01
35	X/Q (SRC 35)	7.38E-01	7.70E-01	8.47E-01	8.99E-01	9.60E-01	1.08E+00	1.31E+00	1.52E+00	1.49E+00	1.30E+00	1.29E+00	1.22E+00	1.05E+00	1.11E+00	8.30E-01
36	X/Q (SRC 36)	5.84E-01	5.35E-01	5.31E-01	5.22E-01	5.04E-01	4.67E-01	4.50E-01	4.43E-01	4.02E-01	3.43E-01	3.05E-01	3.04E-01	3.28E-01	3.57E-01	3.79E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
1	X/Q (SRC 1)	6.56E-01	7.12E-01	7.60E-01	7.28E-01	6.45E-01	5.48E-01	4.68E-01	4.15E-01	3.86E-01	3.72E-01	1.06E+00	1.20E+00	1.30E+00	1.25E+00	1.17E+00
2	X/Q (SRC 2)	1.24E+00	1.31E+00	1.34E+00	1.39E+00	1.37E+00	1.18E+00	9.67E-01	8.18E-01	7.38E-01	6.94E-01	1.08E+00	1.15E+00	1.27E+00	1.40E+00	1.54E+00
3	X/Q (SRC 3)	5.83E-01	6.19E-01	7.06E-01	7.43E-01	7.30E-01	7.50E-01	8.22E-01	8.34E-01	7.61E-01	6.52E-01	7.46E-01	7.88E-01	8.63E-01	9.27E-01	9.99E-01
4	X/Q (SRC 4)	5.67E-01	6.41E-01	6.55E-01	6.29E-01	6.55E-01	7.27E-01	7.45E-01	6.84E-01	5.90E-01	5.02E-01	7.67E-01	8.09E-01	8.98E-01	1.01E+00	1.15E+00
5	X/Q (SRC 5)	1.00E+00	9.98E-01	9.79E-01	9.21E-01	8.49E-01	7.82E-01	7.13E-01	6.35E-01	5.69E-01	5.23E-01	1.06E+00	1.12E+00	1.23E+00	1.33E+00	1.42E+00
6	X/Q (SRC 6)	5.07E-01	5.16E-01	5.41E-01	5.60E-01	5.77E-01	6.02E-01	6.35E-01	6.29E-01	5.75E-01	5.00E-01	7.52E-01	7.86E-01	8.36E-01	8.71E-01	8.99E-01
7	X/Q (SRC 7)	7.77E-01	7.55E-01	8.53E-01	9.21E-01	9.18E-01	9.51E-01	1.02E+00	9.95E-01	8.72E-01	7.29E-01	8.00E-01	8.38E-01	9.20E-01	1.00E+00	1.08E+00
8	X/Q (SRC 8)	5.16E-01	5.18E-01	5.12E-01	5.00E-01	4.90E-01	4.72E-01	4.47E-01	4.18E-01	3.90E-01	3.65E-01	2.13E-01	2.28E-01	2.49E-01	2.74E-01	3.01E-01
9	X/Q (SRC 9)	4.93E-01	5.10E-01	5.28E-01	5.47E-01	5.57E-01	5.49E-01	5.27E-01	5.00E-01	4.73E-01	4.45E-01	7.31E-01	7.92E-01	8.88E-01	9.51E-01	9.80E-01
10	X/Q (SRC 10)	3.45E-01	3.56E-01	3.70E-01	3.86E-01	4.03E-01	4.14E-01	4.19E-01	4.19E-01	4.16E-01	4.04E-01	6.41E-01	6.58E-01	6.86E-01	6.92E-01	6.81E-01
11	X/Q (SRC 11)	5.49E-01	5.63E-01	6.18E-01	6.54E-01	6.63E-01	6.80E-01	7.14E-01	7.24E-01	6.89E-01	6.21E-01	6.97E-01	7.34E-01	8.13E-01	8.99E-01	9.91E-01
12	X/Q (SRC 12)	7.06E-01	7.31E-01	7.42E-01	7.50E-01	7.56E-01	7.27E-01	6.61E-01	5.80E-01	5.11E-01	4.61E-01	8.89E-01	9.65E-01	1.08E+00	1.18E+00	1.25E+00
13	X/Q (SRC 13)	1.02E+00	1.02E+00	1.00E+00	9.53E-01	8.88E-01	8.11E-01	7.22E-01	6.37E-01	5.75E-01	5.34E-01	1.11E+00	1.18E+00	1.30E+00	1.41E+00	1.50E+00
14	X/Q (SRC 14)	7.22E-01	7.29E-01	7.35E-01	7.26E-01	7.09E-01	6.80E-01	6.41E-01	5.96E-01	5.52E-01	5.14E-01	8.61E-01	9.11E-01	1.01E+00	1.09E+00	1.16E+00
15	X/Q (SRC 15)	3.55E-01	3.60E-01	3.79E-01	4.00E-01	4.11E-01	4.01E-01	3.75E-01	3.40E-01	3.07E-01	2.78E-01	5.83E-01	5.59E-01	5.61E-01	5.39E-01	5.05E-01
16	X/Q (SRC 16)	1.38E+00	1.39E+00	1.52E+00	1.56E+00	1.60E+00	1.56E+00	1.39E+00	1.17E+00	1.01E+00	9.04E-01	9.68E-01	1.04E+00	1.16E+00	1.28E+00	1.41E+00
17	X/Q (SRC 17)	9.35E-01	8.91E-01	7.71E-01	6.45E-01	5.54E-01	4.99E-01	4.68E-01	4.49E-01	4.33E-01	4.17E-01	1.27E+00	1.42E+00	1.58E+00	1.56E+00	1.49E+00
18	X/Q (SRC 18)	7.24E-01	7.30E-01	7.35E-01	7.23E-01	7.05E-01	6.75E-01	6.36E-01	5.91E-01	5.49E-01	5.10E-01	8.69E-01	9.21E-01	1.02E+00	1.10E+00	1.16E+00
19	X/Q (SRC 19)	7.21E-01	7.33E-01	7.42E-01	7.32E-01	7.12E-01	6.80E-01	6.39E-01	5.91E-01	5.45E-01	5.04E-01	8.85E-01	9.39E-01	1.04E+00	1.12E+00	1.18E+00
20	X/Q (SRC 20)	2.61E+01	6.37E+01	6.76E+01	3.01E+01	1.76E+01	1.15E+01	8.01E+00	5.86E+00	4.49E+00	3.58E+00	1.13E+00	1.22E+00	1.36E+00	1.51E+00	1.67E+00
21	X/Q (SRC 21)	6.71E-01	7.06E-01	7.26E-01	6.94E-01	6.29E-01	5.50E-01	4.83E-01	4.34E-01	4.04E-01	3.87E-01	1.04E+00	1.14E+00	1.24E+00	1.23E+00	1.18E+00
22	X/Q (SRC 22)	5.83E-01	6.40E-01	6.52E-01	6.39E-01	6.64E-01	7.05E-01	7.08E-01	6.56E-01	5.81E-01	5.10E-01	7.64E-01	8.14E-01	9.13E-01	1.01E+00	1.11E+00
23	X/Q (SRC 23)	1.00E+00	9.89E-01	9.64E-01	9.10E-01	8.48E-01	7.85E-01	7.18E-01	6.48E-01	5.88E-01	5.45E-01	1.04E+00	1.10E+00	1.22E+00	1.32E+00	1.41E+00
24	X/Q (SRC 24)	5.21E-01	5.26E-01	5.47E-01	5.63E-01	5.79E-01	5.98E-01	6.14E-01	6.01E-01	5.56E-01	4.96E-01	7.40E-01	7.74E-01	8.27E-01	8.65E-01	8.90E-01
25	X/Q (SRC 25)	8.21E-01	7.88E-01	8.65E-01	9.18E-01	9.28E-01	9.55E-01	9.87E-01	9.51E-01	8.52E-01	7.38E-01	7.94E-01	8.34E-01	9.17E-01	1.00E+00	1.08E+00
26	X/Q (SRC 26)	5.01E-01	5.16E-01	5.31E-01	5.44E-01	5.50E-01	5.41E-01	5.21E-01	4.96E-01	4.70E-01	4.44E-01	7.25E-01	7.78E-01	8.65E-01	9.25E-01	9.55E-01
27	X/Q (SRC 27)	3.54E-01	3.63E-01	3.75E-01	3.89E-01	4.02E-01	4.11E-01	4.14E-01	4.12E-01	4.07E-01	3.95E-01	6.28E-01	6.44E-01	6.72E-01	6.80E-01	6.73E-01
28	X/Q (SRC 28)	5.78E-01	5.82E-01	6.26E-01	6.55E-01	6.69E-01	6.83E-01	7.02E-01	7.00E-01	6.67E-01	6.10E-01	6.97E-01	7.36E-01	8.15E-01	8.98E-01	9.79E-01
29	X/Q (SRC 29)	7.12E-01	7.32E-01	7.39E-01	7.40E-01	7.38E-01	7.08E-01	6.50E-01	5.81E-01	5.21E-01	4.76E-01	8.84E-01	9.53E-01	1.06E+00	1.16E+00	1.22E+00
30	X/Q (SRC 30)	1.02E+00	1.01E+00	9.88E-01	9.38E-01	8.80E-01	8.10E-01	7.30E-01	6.53E-01	5.95E-01	5.55E-01	1.09E+00	1.16E+00	1.29E+00	1.40E+00	1.48E+00
31	X/Q (SRC 31)	8.97E-01	8.54E-01	7.59E-01	6.55E-01	5.77E-01	5.23E-01	4.89E-01	4.65E-01	4.46E-01	4.29E-01	1.25E+00	1.36E+00	1.51E+00	1.54E+00	1.49E+00
32	X/Q (SRC 32)	2.75E-01	2.67E-01	2.57E-01	2.46E-01	2.37E-01	2.26E-01	2.15E-01	2.03E-01	1.93E-01	1.85E-01	3.67E-01	3.44E-01	3.54E-01	3.63E-01	3.57E-01
33	X/Q (SRC 33)	8.40E-01	9.67E-01	9.33E-01	7.93E-01	6.39E-01	5.27E-01	4.66E-01	4.38E-01	4.27E-01	4.20E-01	1.06E+00	1.26E+00	1.59E+00	1.69E+00	1.50E+00
34	X/Q (SRC 34)	3.60E-01	3.58E-01	4.09E-01	4.61E-01	4.70E-01	4.44E-01	4.01E-01	3.48E-01	3.00E-01	2.64E-01	5.92E-01	5.84E-01	6.26E-01	5.74E-01	5.03E-01
35	X/Q (SRC 35)	6.89E-01	7.55E-01	9.03E-01	9.27E-01	8.89E-01	1.01E+00	1.10E+00	9.93E-01	8.08E-01	6.45E-01	8.12E-01	8.43E-01	9.38E-01	1.04E+00	1.13E+00
36	X/Q (SRC 36)	3.83E-01	3.79E-01	3.84E-01	4.05E-01	4.34E-01	4.48E-01	4.35E-01	4.02E-01	3.60E-01	3.19E-01	6.92E-01	6.46E-01	6.34E-01	6.26E-01	6.00E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1	X/Q (SRC 1)	1.15E+00	1.06E+00	9.68E-01	9.58E-01	7.69E-01	6.42E-01	6.80E-01	7.85E-01	8.30E-01	8.07E-01	8.46E-01	9.24E-01	9.02E-01	7.90E-01	6.58E-01
2	X/Q (SRC 2)	1.71E+00	1.94E+00	2.29E+00	2.58E+00	2.58E+00	2.42E+00	2.21E+00	2.00E+00	1.70E+00	1.58E+00	1.75E+00	1.84E+00	1.90E+00	1.86E+00	1.60E+00
3	X/Q (SRC 3)	1.12E+00	1.29E+00	1.44E+00	1.45E+00	1.34E+00	1.29E+00	1.22E+00	1.09E+00	1.09E+00	8.84E-01	7.38E-01	7.97E-01	9.09E-01	9.29E-01	9.13E-01
4	X/Q (SRC 4)	1.27E+00	1.27E+00	1.17E+00	1.13E+00	1.08E+00	9.57E-01	9.34E-01	8.54E-01	6.58E-01	6.36E-01	7.17E-01	8.06E-01	7.96E-01	7.84E-01	8.54E-01
5	X/Q (SRC 5)	1.49E+00	1.56E+00	1.61E+00	1.61E+00	1.55E+00	1.49E+00	1.46E+00	1.44E+00	1.41E+00	1.39E+00	1.35E+00	1.28E+00	1.22E+00	1.12E+00	1.02E+00
6	X/Q (SRC 6)	9.21E-01	9.28E-01	9.38E-01	9.43E-01	9.02E-01	8.27E-01	7.65E-01	7.17E-01	6.78E-01	6.50E-01	6.24E-01	6.33E-01	6.67E-01	6.94E-01	7.11E-01
7	X/Q (SRC 7)	1.17E+00	1.29E+00	1.48E+00	1.70E+00	1.80E+00	1.73E+00	1.65E+00	1.54E+00	1.42E+00	1.30E+00	1.04E+00	9.96E-01	1.14E+00	1.20E+00	1.20E+00
8	X/Q (SRC 8)	3.29E-01	3.58E-01	3.95E-01	4.37E-01	4.73E-01	5.09E-01	5.40E-01	5.70E-01	6.01E-01	6.18E-01	6.32E-01	6.40E-01	6.29E-01	6.13E-01	5.89E-01
9	X/Q (SRC 9)	9.67E-01	9.23E-01	8.83E-01	8.36E-01	7.94E-01	7.37E-01	6.48E-01	5.77E-01	5.67E-01	5.87E-01	6.05E-01	6.23E-01	6.50E-01	6.64E-01	6.53E-01
10	X/Q (SRC 10)	6.53E-01	6.22E-01	5.97E-01	5.68E-01	5.30E-01	4.88E-01	4.54E-01	4.35E-01	4.22E-01	4.07E-01	4.03E-01	4.16E-01	4.35E-01	4.56E-01	4.72E-01
11	X/Q (SRC 11)	1.08E+00	1.14E+00	1.18E+00	1.20E+00	1.19E+00	1.13E+00	1.06E+00	9.93E-01	9.04E-01	7.97E-01	6.99E-01	7.13E-01	7.83E-01	8.19E-01	8.31E-01
12	X/Q (SRC 12)	1.30E+00	1.32E+00	1.29E+00	1.22E+00	1.13E+00	1.04E+00	9.00E-01	8.12E-01	8.15E-01	8.51E-01	9.01E-01	9.35E-01	9.38E-01	9.31E-01	8.93E-01
13	X/Q (SRC 13)	1.57E+00	1.64E+00	1.67E+00	1.66E+00	1.58E+00	1.50E+00	1.48E+00	1.46E+00	1.44E+00	1.40E+00	1.36E+00	1.33E+00	1.27E+00	1.17E+00	1.06E+00
14	X/Q (SRC 14)	1.21E+00	1.23E+00	1.24E+00	1.23E+00	1.18E+00	1.12E+00	1.06E+00	1.02E+00	9.87E-01	9.57E-01	9.35E-01	9.28E-01	9.21E-01	8.95E-01	8.51E-01
15	X/Q (SRC 15)	4.93E-01	4.79E-01	4.22E-01	3.56E-01	3.29E-01	3.39E-01	3.70E-01	4.03E-01	4.17E-01	4.11E-01	4.08E-01	4.24E-01	4.50E-01	4.65E-01	4.55E-01
16	X/Q (SRC 16)	1.55E+00	1.69E+00	1.91E+00	2.20E+00	2.55E+00	2.88E+00	3.00E+00	2.89E+00	2.64E+00	2.32E+00	2.02E+00	2.01E+00	2.19E+00	2.26E+00	2.21E+00
17	X/Q (SRC 17)	1.41E+00	1.25E+00	1.22E+00	9.93E-01	8.50E-01	9.49E-01	1.07E+00	1.07E+00	1.09E+00	1.18E+00	1.13E+00	9.69E-01	8.05E-01	6.86E-01	6.17E-01
18	X/Q (SRC 18)	1.21E+00	1.23E+00	1.24E+00	1.22E+00	1.17E+00	1.11E+00	1.06E+00	1.01E+00	9.85E-01	9.57E-01	9.36E-01	9.27E-01	9.17E-01	8.89E-01	8.44E-01
19	X/Q (SRC 19)	1.23E+00	1.25E+00	1.26E+00	1.24E+00	1.18E+00	1.12E+00	1.06E+00	1.01E+00	9.83E-01	9.57E-01	9.36E-01	9.31E-01	9.27E-01	8.99E-01	8.52E-01
20	X/Q (SRC 20)	1.88E+00	2.13E+00	2.45E+00	2.85E+00	3.37E+00	4.09E+00	5.09E+00	6.65E+00	9.30E+00	1.37E+01	2.37E+01	6.12E+01	7.49E+01	3.38E+01	1.92E+01
21	X/Q (SRC 21)	1.14E+00	1.06E+00	9.91E-01	9.37E-01	7.95E-01	6.81E-01	7.02E-01	7.87E-01	8.27E-01	8.21E-01	8.51E-01	8.90E-01	8.59E-01	7.68E-01	6.62E-01
22	X/Q (SRC 22)	1.20E+00	1.23E+00	1.18E+00	1.13E+00	1.07E+00	9.79E-01	9.27E-01	8.44E-01	7.04E-01	6.63E-01	7.32E-01	8.01E-01	7.97E-01	7.99E-01	8.39E-01
23	X/Q (SRC 23)	1.48E+00	1.54E+00	1.59E+00	1.60E+00	1.54E+00	1.48E+00	1.46E+00	1.44E+00	1.41E+00	1.39E+00	1.34E+00	1.28E+00	1.21E+00	1.12E+00	1.02E+00
24	X/Q (SRC 24)	9.13E-01	9.24E-01	9.33E-01	9.28E-01	8.94E-01	8.33E-01	7.72E-01	7.25E-01	6.92E-01	6.61E-01	6.39E-01	6.46E-01	6.73E-01	6.94E-01	7.08E-01
25	X/Q (SRC 25)	1.18E+00	1.30E+00	1.47E+00	1.63E+00	1.73E+00	1.72E+00	1.64E+00	1.54E+00	1.43E+00	1.29E+00	1.09E+00	1.04E+00	1.15E+00	1.20E+00	1.21E+00
26	X/Q (SRC 26)	9.53E-01	9.19E-01	8.86E-01	8.42E-01	7.98E-01	7.41E-01	6.62E-01	5.98E-01	5.83E-01	5.99E-01	6.15E-01	6.29E-01	6.50E-01	6.56E-01	6.44E-01
27	X/Q (SRC 27)	6.52E-01	6.26E-01	6.01E-01	5.72E-01	5.35E-01	4.97E-01	4.64E-01	4.44E-01	4.30E-01	4.18E-01	4.14E-01	4.24E-01	4.40E-01	4.57E-01	4.68E-01
28	X/Q (SRC 28)	1.06E+00	1.12E+00	1.16E+00	1.19E+00	1.17E+00	1.12E+00	1.06E+00	9.95E-01	9.14E-01	8.13E-01	7.32E-01	7.36E-01	7.89E-01	8.21E-01	8.34E-01
29	X/Q (SRC 29)	1.28E+00	1.30E+00	1.27E+00	1.21E+00	1.13E+00	1.04E+00	9.16E-01	8.37E-01	8.35E-01	8.63E-01	9.04E-01	9.31E-01	9.28E-01	9.12E-01	8.69E-01
30	X/Q (SRC 30)	1.56E+00	1.62E+00	1.65E+00	1.64E+00	1.57E+00	1.50E+00	1.47E+00	1.45E+00	1.43E+00	1.39E+00	1.35E+00	1.31E+00	1.25E+00	1.16E+00	1.06E+00
31	X/Q (SRC 31)	1.40E+00	1.25E+00	1.20E+00	1.03E+00	8.98E-01	9.72E-01	1.07E+00	1.08E+00	1.10E+00	1.14E+00	1.09E+00	9.54E-01	8.21E-01	7.16E-01	6.46E-01
32	X/Q (SRC 32)	3.51E-01	3.49E-01	3.52E-01	3.50E-01	3.45E-01	3.39E-01	3.32E-01	3.26E-01	3.21E-01	3.12E-01	3.03E-01	2.92E-01	2.79E-01	2.67E-01	2.53E-01
33	X/Q (SRC 33)	1.42E+00	1.37E+00	1.17E+00	1.23E+00	9.22E-01	7.79E-01	8.68E-01	1.03E+00	1.02E+00	1.02E+00	1.19E+00	1.19E+00	1.00E+00	7.90E-01	6.44E-01
34	X/Q (SRC 34)	4.96E-01	5.54E-01	4.47E-01	3.18E-01	3.24E-01	3.34E-01	3.74E-01	4.29E-01	4.40E-01	4.30E-01	4.07E-01	4.45E-01	5.16E-01	5.39E-01	5.11E-01
35	X/Q (SRC 35)	1.19E+00	1.32E+00	1.62E+00	1.91E+00	1.87E+00	1.65E+00	1.65E+00	1.42E+00	1.40E+00	1.15E+00	9.05E-01	1.01E+00	1.20E+00	1.18E+00	1.22E+00
36	X/Q (SRC 36)	5.60E-01	5.33E-01	5.16E-01	4.72E-01	4.06E-01	3.58E-01	3.55E-01	3.85E-01	4.20E-01	4.40E-01	4.41E-01	4.41E-01	4.58E-01	4.88E-01	5.07E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
1	X/Q (SRC 1)	5.59E-01	4.98E-01	4.63E-01	4.44E-01	4.31E-01	1.15E+00	1.31E+00	1.51E+00	1.62E+00	1.55E+00	1.46E+00	1.40E+00	1.25E+00	1.22E+00	1.02E+00
2	X/Q (SRC 2)	1.30E+00	1.10E+00	9.88E-01	9.11E-01	8.53E-01	1.22E+00	1.34E+00	1.47E+00	1.63E+00	1.81E+00	2.02E+00	2.28E+00	2.64E+00	3.16E+00	3.65E+00
3	X/Q (SRC 3)	9.93E-01	1.05E+00	9.54E-01	7.99E-01	6.68E-01	8.51E-01	9.06E-01	9.72E-01	1.05E+00	1.13E+00	1.23E+00	1.37E+00	1.60E+00	1.81E+00	1.83E+00
4	X/Q (SRC 4)	9.06E-01	8.47E-01	7.18E-01	5.97E-01	5.17E-01	8.73E-01	9.33E-01	1.00E+00	1.08E+00	1.22E+00	1.41E+00	1.57E+00	1.56E+00	1.44E+00	1.41E+00
5	X/Q (SRC 5)	9.31E-01	8.27E-01	7.31E-01	6.63E-01	6.19E-01	1.25E+00	1.35E+00	1.46E+00	1.59E+00	1.72E+00	1.85E+00	1.99E+00	2.11E+00	2.19E+00	2.16E+00
6	X/Q (SRC 6)	7.50E-01	7.64E-01	6.98E-01	5.95E-01	5.05E-01	8.37E-01	8.95E-01	9.49E-01	9.95E-01	1.04E+00	1.08E+00	1.10E+00	1.12E+00	1.14E+00	1.14E+00
7	X/Q (SRC 7)	1.29E+00	1.29E+00	1.12E+00	9.21E-01	7.78E-01	9.15E-01	9.79E-01	1.05E+00	1.13E+00	1.23E+00	1.34E+00	1.46E+00	1.64E+00	1.90E+00	2.20E+00
8	X/Q (SRC 8)	5.62E-01	5.29E-01	4.86E-01	4.45E-01	4.12E-01	2.23E-01	2.39E-01	2.60E-01	2.87E-01	3.15E-01	3.46E-01	3.83E-01	4.29E-01	4.86E-01	5.44E-01
9	X/Q (SRC 9)	6.26E-01	5.90E-01	5.55E-01	5.20E-01	4.84E-01	8.14E-01	8.86E-01	9.76E-01	1.07E+00	1.14E+00	1.18E+00	1.17E+00	1.12E+00	1.06E+00	1.00E+00
10	X/Q (SRC 10)	4.80E-01	4.80E-01	4.73E-01	4.59E-01	4.35E-01	7.14E-01	7.48E-01	7.75E-01	7.95E-01	7.98E-01	7.80E-01	7.49E-01	7.15E-01	6.80E-01	6.36E-01
11	X/Q (SRC 11)	8.68E-01	8.88E-01	8.44E-01	7.53E-01	6.57E-01	7.95E-01	8.44E-01	9.06E-01	9.83E-01	1.08E+00	1.19E+00	1.31E+00	1.40E+00	1.47E+00	1.50E+00
12	X/Q (SRC 12)	8.15E-01	7.17E-01	6.25E-01	5.56E-01	5.14E-01	1.01E+00	1.10E+00	1.21E+00	1.34E+00	1.46E+00	1.57E+00	1.65E+00	1.67E+00	1.63E+00	1.53E+00
13	X/Q (SRC 13)	9.44E-01	8.33E-01	7.40E-01	6.76E-01	6.35E-01	1.29E+00	1.40E+00	1.53E+00	1.67E+00	1.83E+00	1.98E+00	2.11E+00	2.21E+00	2.25E+00	2.21E+00
14	X/Q (SRC 14)	8.01E-01	7.45E-01	6.84E-01	6.27E-01	5.82E-01	9.94E-01	1.07E+00	1.16E+00	1.26E+00	1.36E+00	1.45E+00	1.53E+00	1.58E+00	1.60E+00	1.57E+00
15	X/Q (SRC 15)	4.27E-01	3.87E-01	3.45E-01	3.10E-01	2.85E-01	7.18E-01	6.87E-01	6.77E-01	6.49E-01	6.01E-01	5.73E-01	5.60E-01	5.02E-01	4.21E-01	3.86E-01
16	X/Q (SRC 16)	1.97E+00	1.63E+00	1.40E+00	1.24E+00	1.14E+00	1.10E+00	1.20E+00	1.31E+00	1.46E+00	1.61E+00	1.79E+00	2.00E+00	2.26E+00	2.62E+00	3.06E+00
17	X/Q (SRC 17)	5.79E-01	5.50E-01	5.26E-01	5.01E-01	4.78E-01	1.46E+00	1.67E+00	1.92E+00	2.06E+00	2.02E+00	1.90E+00	1.72E+00	1.60E+00	1.37E+00	1.14E+00
18	X/Q (SRC 18)	7.95E-01	7.39E-01	6.78E-01	6.23E-01	5.78E-01	1.00E+00	1.08E+00	1.18E+00	1.28E+00	1.37E+00	1.46E+00	1.53E+00	1.58E+00	1.59E+00	1.56E+00
19	X/Q (SRC 19)	7.98E-01	7.37E-01	6.73E-01	6.15E-01	5.67E-01	1.02E+00	1.10E+00	1.20E+00	1.30E+00	1.40E+00	1.49E+00	1.56E+00	1.61E+00	1.62E+00	1.58E+00
20	X/Q (SRC 20)	1.26E+01	8.95E+00	6.56E+00	5.02E+00	4.01E+00	1.12E+00	1.21E+00	1.33E+00	1.46E+00	1.63E+00	1.82E+00	2.07E+00	2.38E+00	2.78E+00	3.31E+00
21	X/Q (SRC 21)	5.79E-01	5.23E-01	4.84E-01	4.59E-01	4.43E-01	1.16E+00	1.30E+00	1.45E+00	1.54E+00	1.53E+00	1.47E+00	1.39E+00	1.28E+00	1.20E+00	1.04E+00
22	X/Q (SRC 22)	8.61E-01	8.12E-01	7.08E-01	6.08E-01	5.40E-01	8.73E-01	9.33E-01	1.01E+00	1.10E+00	1.22E+00	1.37E+00	1.49E+00	1.52E+00	1.45E+00	1.39E+00
23	X/Q (SRC 23)	9.38E-01	8.46E-01	7.57E-01	6.89E-01	6.43E-01	1.23E+00	1.33E+00	1.44E+00	1.57E+00	1.70E+00	1.83E+00	1.96E+00	2.08E+00	2.16E+00	2.14E+00
24	X/Q (SRC 24)	7.32E-01	7.31E-01	6.74E-01	5.90E-01	5.18E-01	8.29E-01	8.84E-01	9.38E-01	9.86E-01	1.03E+00	1.07E+00	1.09E+00	1.11E+00	1.13E+00	1.12E+00
25	X/Q (SRC 25)	1.26E+00	1.23E+00	1.10E+00	9.33E-01	8.10E-01	9.03E-01	9.68E-01	1.04E+00	1.13E+00	1.23E+00	1.34E+00	1.46E+00	1.64E+00	1.88E+00	2.12E+00
26	X/Q (SRC 26)	6.19E-01	5.87E-01	5.54E-01	5.20E-01	4.86E-01	8.14E-01	8.80E-01	9.62E-01	1.05E+00	1.11E+00	1.15E+00	1.15E+00	1.11E+00	1.07E+00	1.01E+00
27	X/Q (SRC 27)	4.74E-01	4.73E-01	4.65E-01	4.49E-01	4.27E-01	7.03E-01	7.36E-01	7.63E-01	7.82E-01	7.85E-01	7.72E-01	7.48E-01	7.18E-01	6.85E-01	6.42E-01
28	X/Q (SRC 28)	8.58E-01	8.64E-01	8.19E-01	7.41E-01	6.61E-01	7.91E-01	8.42E-01	9.09E-01	9.87E-01	1.08E+00	1.18E+00	1.28E+00	1.38E+00	1.44E+00	1.48E+00
29	X/Q (SRC 29)	8.02E-01	7.20E-01	6.38E-01	5.74E-01	5.33E-01	1.01E+00	1.10E+00	1.20E+00	1.32E+00	1.43E+00	1.54E+00	1.62E+00	1.65E+00	1.61E+00	1.52E+00
30	X/Q (SRC 30)	9.53E-01	8.55E-01	7.66E-01	7.01E-01	6.58E-01	1.27E+00	1.39E+00	1.52E+00	1.65E+00	1.80E+00	1.96E+00	2.08E+00	2.18E+00	2.21E+00	2.18E+00
31	X/Q (SRC 31)	6.03E-01	5.69E-01	5.44E-01	5.18E-01	4.96E-01	1.46E+00	1.64E+00	1.84E+00	1.99E+00	1.99E+00	1.87E+00	1.70E+00	1.57E+00	1.40E+00	1.20E+00
32	X/Q (SRC 32)	2.41E-01	2.29E-01	2.17E-01	2.06E-01	1.99E-01	4.61E-01	4.36E-01	4.34E-01	4.35E-01	4.27E-01	4.20E-01	4.17E-01	4.15E-01	4.08E-01	3.96E-01
33	X/Q (SRC 33)	5.73E-01	5.44E-01	5.28E-01	5.09E-01	4.83E-01	1.28E+00	1.38E+00	1.64E+00	2.03E+00	2.16E+00	1.90E+00	1.84E+00	1.63E+00	1.57E+00	1.29E+00
34	X/Q (SRC 34)	4.60E-01	3.96E-01	3.36E-01	2.93E-01	2.67E-01	7.74E-01	6.99E-01	7.26E-01	7.20E-01	6.19E-01	5.70E-01	6.32E-01	5.53E-01	3.81E-01	3.80E-01
35	X/Q (SRC 35)	1.40E+00	1.30E+00	1.03E+00	8.06E-01	6.87E-01	9.66E-01	1.02E+00	1.09E+00	1.17E+00	1.27E+00	1.40E+00	1.52E+00	1.68E+00	2.06E+00	2.49E+00
36	X/Q (SRC 36)	4.99E-01	4.62E-01	4.11E-01	3.60E-01	3.20E-01	8.39E-01	8.12E-01	7.72E-01	7.47E-01	7.18E-01	6.74E-01	6.35E-01	6.08E-01	5.61E-01	4.88E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
1	X/Q (SRC 1)	8.31E-01	8.93E-01	1.03E+00	1.05E+00	1.05E+00	1.15E+00	1.15E+00	1.00E+00	8.24E-01	6.87E-01	6.11E-01	5.75E-01	5.48E-01	5.23E-01	4.99E-01
2	X/Q (SRC 2)	3.69E+00	3.39E+00	3.09E+00	2.58E+00	2.43E+00	2.67E+00	2.79E+00	2.73E+00	2.36E+00	1.86E+00	1.56E+00	1.41E+00	1.28E+00	1.16E+00	1.07E+00
3	X/Q (SRC 3)	1.70E+00	1.64E+00	1.48E+00	1.41E+00	1.20E+00	9.75E-01	1.07E+00	1.20E+00	1.20E+00	1.24E+00	1.32E+00	1.24E+00	1.03E+00	8.41E-01	7.29E-01
4	X/Q (SRC 4)	1.28E+00	1.18E+00	1.13E+00	8.55E-01	8.19E-01	9.47E-01	1.03E+00	9.95E-01	1.05E+00	1.12E+00	1.06E+00	9.05E-01	7.41E-01	6.34E-01	5.79E-01
5	X/Q (SRC 5)	2.14E+00	2.19E+00	2.16E+00	2.10E+00	2.01E+00	1.85E+00	1.71E+00	1.58E+00	1.44E+00	1.29E+00	1.13E+00	9.93E-01	8.90E-01	8.15E-01	7.55E-01
6	X/Q (SRC 6)	1.07E+00	9.89E-01	9.31E-01	8.75E-01	8.31E-01	7.95E-01	8.00E-01	8.50E-01	8.86E-01	9.10E-01	9.34E-01	8.76E-01	7.39E-01	6.14E-01	5.35E-01
7	X/Q (SRC 7)	2.36E+00	2.29E+00	2.16E+00	1.97E+00	1.78E+00	1.44E+00	1.39E+00	1.58E+00	1.64E+00	1.70E+00	1.72E+00	1.52E+00	1.23E+00	1.02E+00	9.12E-01
8	X/Q (SRC 8)	6.01E-01	6.52E-01	7.07E-01	7.44E-01	7.75E-01	7.89E-01	8.00E-01	7.85E-01	7.68E-01	7.23E-01	6.75E-01	6.28E-01	5.69E-01	5.16E-01	4.71E-01
9	X/Q (SRC 9)	9.29E-01	8.23E-01	7.25E-01	7.20E-01	7.44E-01	7.59E-01	7.91E-01	8.11E-01	8.01E-01	7.63E-01	7.15E-01	6.69E-01	6.26E-01	5.80E-01	5.32E-01
10	X/Q (SRC 10)	5.88E-01	5.45E-01	5.20E-01	5.04E-01	4.86E-01	4.78E-01	4.95E-01	5.21E-01	5.47E-01	5.58E-01	5.57E-01	5.49E-01	5.32E-01	5.03E-01	4.62E-01
11	X/Q (SRC 11)	1.48E+00	1.40E+00	1.31E+00	1.19E+00	1.05E+00	9.18E-01	9.37E-01	1.02E+00	1.07E+00	1.09E+00	1.12E+00	1.07E+00	9.54E-01	8.22E-01	7.14E-01
12	X/Q (SRC 12)	1.41E+00	1.22E+00	1.10E+00	1.10E+00	1.14E+00	1.21E+00	1.22E+00	1.20E+00	1.15E+00	1.04E+00	9.06E-01	7.93E-01	7.03E-01	6.41E-01	5.98E-01
13	X/Q (SRC 13)	2.17E+00	2.19E+00	2.20E+00	2.12E+00	2.02E+00	1.92E+00	1.79E+00	1.66E+00	1.50E+00	1.31E+00	1.14E+00	1.01E+00	9.12E-01	8.36E-01	7.76E-01
14	X/Q (SRC 14)	1.53E+00	1.47E+00	1.42E+00	1.37E+00	1.31E+00	1.25E+00	1.22E+00	1.19E+00	1.13E+00	1.05E+00	9.63E-01	8.84E-01	8.05E-01	7.34E-01	6.75E-01
15	X/Q (SRC 15)	4.01E-01	4.41E-01	4.78E-01	4.84E-01	4.76E-01	4.82E-01	5.12E-01	5.34E-01	5.29E-01	4.93E-01	4.43E-01	3.95E-01	3.53E-01	3.22E-01	3.03E-01
16	X/Q (SRC 16)	3.63E+00	4.21E+00	4.40E+00	4.17E+00	3.65E+00	3.15E+00	3.19E+00	3.46E+00	3.40E+00	3.02E+00	2.48E+00	2.07E+00	1.83E+00	1.65E+00	1.49E+00
17	X/Q (SRC 17)	1.30E+00	1.44E+00	1.42E+00	1.52E+00	1.50E+00	1.27E+00	1.04E+00	8.86E-01	7.97E-01	7.42E-01	6.98E-01	6.57E-01	6.22E-01	5.88E-01	5.59E-01
18	X/Q (SRC 18)	1.51E+00	1.46E+00	1.42E+00	1.36E+00	1.31E+00	1.24E+00	1.22E+00	1.18E+00	1.12E+00	1.04E+00	9.54E-01	8.77E-01	7.99E-01	7.29E-01	6.71E-01
19	X/Q (SRC 19)	1.53E+00	1.48E+00	1.43E+00	1.37E+00	1.31E+00	1.25E+00	1.23E+00	1.19E+00	1.13E+00	1.05E+00	9.53E-01	8.68E-01	7.87E-01	7.15E-01	6.55E-01
20	X/Q (SRC 20)	4.02E+00	4.98E+00	6.56E+00	8.97E+00	1.33E+01	2.35E+01	5.68E+01	7.65E+01	3.63E+01	2.03E+01	1.33E+01	9.52E+00	7.06E+00	5.45E+00	4.34E+00
21	X/Q (SRC 21)	8.82E-01	9.18E-01	1.03E+00	1.05E+00	1.06E+00	1.12E+00	1.09E+00	9.72E-01	8.32E-01	7.14E-01	6.40E-01	5.99E-01	5.66E-01	5.38E-01	5.15E-01
22	X/Q (SRC 22)	1.29E+00	1.19E+00	1.11E+00	9.08E-01	8.54E-01	9.59E-01	1.02E+00	1.01E+00	1.05E+00	1.07E+00	1.01E+00	8.93E-01	7.59E-01	6.63E-01	6.06E-01
23	X/Q (SRC 23)	2.13E+00	2.16E+00	2.14E+00	2.08E+00	1.98E+00	1.83E+00	1.71E+00	1.58E+00	1.45E+00	1.30E+00	1.16E+00	1.03E+00	9.24E-01	8.43E-01	7.79E-01
24	X/Q (SRC 24)	1.07E+00	9.94E-01	9.40E-01	8.87E-01	8.44E-01	8.13E-01	8.15E-01	8.51E-01	8.82E-01	8.94E-01	8.96E-01	8.44E-01	7.34E-01	6.31E-01	5.60E-01
25	X/Q (SRC 25)	2.27E+00	2.26E+00	2.14E+00	1.97E+00	1.78E+00	1.49E+00	1.44E+00	1.58E+00	1.64E+00	1.67E+00	1.65E+00	1.48E+00	1.25E+00	1.07E+00	9.53E-01
26	X/Q (SRC 26)	9.33E-01	8.38E-01	7.51E-01	7.38E-01	7.56E-01	7.68E-01	7.92E-01	8.04E-01	7.92E-01	7.56E-01	7.12E-01	6.70E-01	6.28E-01	5.83E-01	5.39E-01
27	X/Q (SRC 27)	5.97E-01	5.57E-01	5.32E-01	5.14E-01	4.98E-01	4.91E-01	5.05E-01	5.25E-01	5.45E-01	5.51E-01	5.48E-01	5.41E-01	5.22E-01	4.94E-01	4.59E-01
28	X/Q (SRC 28)	1.46E+00	1.40E+00	1.31E+00	1.20E+00	1.07E+00	9.54E-01	9.62E-01	1.03E+00	1.07E+00	1.08E+00	1.09E+00	1.04E+00	9.41E-01	8.28E-01	7.33E-01
29	X/Q (SRC 29)	1.40E+00	1.23E+00	1.13E+00	1.12E+00	1.15E+00	1.20E+00	1.21E+00	1.18E+00	1.13E+00	1.02E+00	9.09E-01	8.12E-01	7.27E-01	6.65E-01	6.20E-01
30	X/Q (SRC 30)	2.15E+00	2.15E+00	2.17E+00	2.09E+00	2.00E+00	1.90E+00	1.77E+00	1.64E+00	1.50E+00	1.32E+00	1.16E+00	1.05E+00	9.45E-01	8.64E-01	8.00E-01
31	X/Q (SRC 31)	1.32E+00	1.43E+00	1.43E+00	1.49E+00	1.43E+00	1.25E+00	1.06E+00	9.26E-01	8.34E-01	7.71E-01	7.23E-01	6.82E-01	6.46E-01	6.12E-01	5.80E-01
32	X/Q (SRC 32)	3.86E-01	3.76E-01	3.69E-01	3.60E-01	3.49E-01	3.36E-01	3.21E-01	3.05E-01	2.91E-01	2.74E-01	2.59E-01	2.47E-01	2.34E-01	2.24E-01	2.15E-01
33	X/Q (SRC 33)	1.04E+00	1.20E+00	1.37E+00	1.33E+00	1.48E+00	1.56E+00	1.32E+00	1.01E+00	8.22E-01	7.37E-01	7.00E-01	6.70E-01	6.29E-01	5.84E-01	5.48E-01
34	X/Q (SRC 34)	3.96E-01	4.56E-01	5.10E-01	5.15E-01	4.88E-01	4.94E-01	5.77E-01	6.26E-01	6.01E-01	5.35E-01	4.54E-01	3.83E-01	3.32E-01	3.02E-01	2.87E-01
35	X/Q (SRC 35)	2.44E+00	2.21E+00	2.10E+00	1.85E+00	1.65E+00	1.23E+00	1.45E+00	1.64E+00	1.61E+00	1.84E+00	1.76E+00	1.38E+00	1.06E+00	9.05E-01	8.43E-01
36	X/Q (SRC 36)	4.28E-01	4.25E-01	4.62E-01	5.00E-01	5.18E-01	5.16E-01	5.28E-01	5.58E-01	5.87E-01	5.79E-01	5.36E-01	4.76E-01	4.14E-01	3.64E-01	3.31E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
1	X/Q (SRC 1)	1.30E+00	1.43E+00	1.65E+00	1.92E+00	2.06E+00	1.98E+00	1.89E+00	1.73E+00	1.60E+00	1.40E+00	1.12E+00	1.23E+00	1.39E+00	1.37E+00	1.46E+00
2	X/Q (SRC 2)	1.37E+00	1.52E+00	1.69E+00	1.89E+00	2.12E+00	2.42E+00	2.79E+00	3.24E+00	3.84E+00	4.74E+00	5.70E+00	5.80E+00	5.27E+00	4.34E+00	4.20E+00
3	X/Q (SRC 3)	9.50E-01	1.02E+00	1.10E+00	1.19E+00	1.29E+00	1.41E+00	1.55E+00	1.75E+00	2.05E+00	2.37E+00	2.41E+00	2.26E+00	2.12E+00	1.89E+00	1.69E+00
4	X/Q (SRC 4)	9.73E-01	1.05E+00	1.14E+00	1.23E+00	1.34E+00	1.52E+00	1.77E+00	2.01E+00	1.98E+00	1.86E+00	1.79E+00	1.58E+00	1.52E+00	1.15E+00	1.10E+00
5	X/Q (SRC 5)	1.44E+00	1.58E+00	1.73E+00	1.90E+00	2.09E+00	2.33E+00	2.60E+00	2.87E+00	3.13E+00	3.23E+00	3.27E+00	3.50E+00	3.56E+00	3.41E+00	3.10E+00
6	X/Q (SRC 6)	9.15E-01	9.94E-01	1.07E+00	1.14E+00	1.20E+00	1.27E+00	1.32E+00	1.35E+00	1.39E+00	1.42E+00	1.39E+00	1.33E+00	1.25E+00	1.17E+00	1.11E+00
7	X/Q (SRC 7)	1.01E+00	1.09E+00	1.18E+00	1.29E+00	1.41E+00	1.55E+00	1.71E+00	1.90E+00	2.18E+00	2.54E+00	3.00E+00	3.27E+00	3.18E+00	2.94E+00	2.62E+00
8	X/Q (SRC 8)	2.31E-01	2.49E-01	2.69E-01	2.93E-01	3.23E-01	3.61E-01	4.08E-01	4.61E-01	5.35E-01	6.13E-01	6.93E-01	7.91E-01	8.75E-01	9.24E-01	9.82E-01
9	X/Q (SRC 9)	9.06E-01	9.83E-01	1.07E+00	1.18E+00	1.29E+00	1.40E+00	1.47E+00	1.46E+00	1.41E+00	1.32E+00	1.21E+00	1.07E+00	9.51E-01	9.56E-01	9.79E-01
10	X/Q (SRC 10)	7.80E-01	8.31E-01	8.71E-01	9.05E-01	9.25E-01	9.30E-01	9.13E-01	8.77E-01	8.33E-01	7.76E-01	7.17E-01	6.67E-01	6.33E-01	6.13E-01	5.91E-01
11	X/Q (SRC 11)	8.86E-01	9.49E-01	1.02E+00	1.10E+00	1.19E+00	1.32E+00	1.48E+00	1.65E+00	1.79E+00	1.89E+00	1.94E+00	1.91E+00	1.81E+00	1.63E+00	1.44E+00
12	X/Q (SRC 12)	1.13E+00	1.24E+00	1.37E+00	1.52E+00	1.69E+00	1.87E+00	2.05E+00	2.18E+00	2.22E+00	2.16E+00	2.01E+00	1.76E+00	1.59E+00	1.56E+00	1.62E+00
13	X/Q (SRC 13)	1.46E+00	1.63E+00	1.81E+00	2.01E+00	2.23E+00	2.51E+00	2.80E+00	3.04E+00	3.20E+00	3.27E+00	3.36E+00	3.51E+00	3.58E+00	3.38E+00	3.19E+00
14	X/Q (SRC 14)	1.13E+00	1.23E+00	1.34E+00	1.46E+00	1.59E+00	1.77E+00	1.93E+00	2.06E+00	2.17E+00	2.18E+00	2.16E+00	2.16E+00	2.12E+00	2.03E+00	1.91E+00
15	X/Q (SRC 15)	8.79E-01	8.41E-01	8.09E-01	7.82E-01	7.15E-01	6.82E-01	6.66E-01	6.07E-01	5.09E-01	4.60E-01	4.80E-01	5.35E-01	5.70E-01	5.67E-01	5.64E-01
16	X/Q (SRC 16)	1.27E+00	1.39E+00	1.50E+00	1.65E+00	1.83E+00	2.07E+00	2.37E+00	2.71E+00	3.21E+00	3.80E+00	4.53E+00	5.69E+00	6.85E+00	7.37E+00	6.57E+00
17	X/Q (SRC 17)	1.71E+00	1.92E+00	2.20E+00	2.54E+00	2.74E+00	2.72E+00	2.53E+00	2.25E+00	2.01E+00	1.63E+00	1.89E+00	2.00E+00	2.07E+00	2.11E+00	1.76E+00
18	X/Q (SRC 18)	1.14E+00	1.24E+00	1.36E+00	1.48E+00	1.61E+00	1.78E+00	1.94E+00	2.06E+00	2.16E+00	2.16E+00	2.15E+00	2.15E+00	2.11E+00	2.02E+00	1.90E+00
19	X/Q (SRC 19)	1.15E+00	1.26E+00	1.38E+00	1.51E+00	1.65E+00	1.82E+00	1.98E+00	2.11E+00	2.21E+00	2.21E+00	2.20E+00	2.20E+00	2.16E+00	2.07E+00	1.93E+00
20	X/Q (SRC 20)	1.07E+00	1.16E+00	1.27E+00	1.40E+00	1.55E+00	1.75E+00	1.99E+00	2.29E+00	2.66E+00	3.17E+00	3.87E+00	4.81E+00	6.26E+00	8.41E+00	1.29E+01
21	X/Q (SRC 21)	1.30E+00	1.45E+00	1.63E+00	1.84E+00	1.97E+00	1.96E+00	1.88E+00	1.74E+00	1.60E+00	1.41E+00	1.19E+00	1.25E+00	1.38E+00	1.38E+00	1.44E+00
22	X/Q (SRC 22)	9.69E-01	1.05E+00	1.13E+00	1.23E+00	1.35E+00	1.52E+00	1.73E+00	1.91E+00	1.93E+00	1.86E+00	1.76E+00	1.61E+00	1.48E+00	1.21E+00	1.15E+00
23	X/Q (SRC 23)	1.43E+00	1.57E+00	1.71E+00	1.87E+00	2.05E+00	2.30E+00	2.56E+00	2.81E+00	3.06E+00	3.17E+00	3.22E+00	3.41E+00	3.46E+00	3.32E+00	3.05E+00
24	X/Q (SRC 24)	9.09E-01	9.83E-01	1.06E+00	1.13E+00	1.19E+00	1.25E+00	1.31E+00	1.35E+00	1.38E+00	1.40E+00	1.38E+00	1.32E+00	1.26E+00	1.18E+00	1.12E+00
25	X/Q (SRC 25)	1.00E+00	1.08E+00	1.17E+00	1.27E+00	1.39E+00	1.53E+00	1.70E+00	1.89E+00	2.18E+00	2.51E+00	2.89E+00	3.15E+00	3.13E+00	2.92E+00	2.60E+00
26	X/Q (SRC 26)	9.08E-01	9.84E-01	1.07E+00	1.16E+00	1.26E+00	1.37E+00	1.43E+00	1.43E+00	1.40E+00	1.32E+00	1.21E+00	1.09E+00	9.80E-01	9.75E-01	9.89E-01
27	X/Q (SRC 27)	7.73E-01	8.20E-01	8.60E-01	8.91E-01	9.08E-01	9.16E-01	9.04E-01	8.74E-01	8.37E-01	7.83E-01	7.26E-01	6.81E-01	6.47E-01	6.23E-01	6.04E-01
28	X/Q (SRC 28)	8.82E-01	9.45E-01	1.01E+00	1.10E+00	1.19E+00	1.32E+00	1.47E+00	1.61E+00	1.76E+00	1.85E+00	1.90E+00	1.89E+00	1.80E+00	1.64E+00	1.46E+00
29	X/Q (SRC 29)	1.13E+00	1.23E+00	1.36E+00	1.51E+00	1.67E+00	1.84E+00	2.01E+00	2.13E+00	2.17E+00	2.13E+00	2.00E+00	1.77E+00	1.61E+00	1.57E+00	1.62E+00
30	X/Q (SRC 30)	1.45E+00	1.61E+00	1.79E+00	1.98E+00	2.20E+00	2.46E+00	2.74E+00	2.98E+00	3.12E+00	3.20E+00	3.30E+00	3.42E+00	3.47E+00	3.29E+00	3.13E+00
31	X/Q (SRC 31)	1.71E+00	1.92E+00	2.16E+00	2.45E+00	2.63E+00	2.65E+00	2.48E+00	2.22E+00	2.02E+00	1.71E+00	1.88E+00	2.00E+00	2.04E+00	2.02E+00	1.73E+00
32	X/Q (SRC 32)	5.64E-01	5.37E-01	5.35E-01	5.28E-01	5.16E-01	5.13E-01	5.06E-01	4.91E-01	4.76E-01	4.59E-01	4.46E-01	4.33E-01	4.22E-01	4.07E-01	3.93E-01
33	X/Q (SRC 33)	1.50E+00	1.67E+00	1.82E+00	2.11E+00	2.65E+00	2.86E+00	2.56E+00	2.44E+00	2.15E+00	1.90E+00	1.45E+00	1.74E+00	1.89E+00	1.96E+00	2.15E+00
34	X/Q (SRC 34)	1.03E+00	8.99E-01	8.36E-01	8.71E-01	7.88E-01	6.87E-01	7.25E-01	6.93E-01	4.70E-01	4.55E-01	4.79E-01	5.67E-01	6.14E-01	6.03E-01	5.76E-01
35	X/Q (SRC 35)	1.08E+00	1.17E+00	1.26E+00	1.37E+00	1.47E+00	1.61E+00	1.80E+00	2.01E+00	2.27E+00	2.76E+00	3.42E+00	3.36E+00	3.13E+00	2.73E+00	2.49E+00
36	X/Q (SRC 36)	9.59E-01	9.82E-01	9.53E-01	9.08E-01	8.63E-01	8.25E-01	7.78E-01	7.35E-01	6.80E-01	5.96E-01	5.20E-01	5.17E-01	5.63E-01	6.05E-01	6.18E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
1	X/Q (SRC 1)	1.52E+00	1.33E+00	1.07E+00	8.87E-01	7.89E-01	7.32E-01	6.92E-01	6.55E-01	6.16E-01	5.83E-01	1.50E+00	1.66E+00	1.85E+00	2.13E+00	2.53E+00
2	X/Q (SRC 2)	4.56E+00	4.54E+00	3.87E+00	3.03E+00	2.49E+00	2.15E+00	1.91E+00	1.71E+00	1.53E+00	1.37E+00	1.57E+00	1.75E+00	1.96E+00	2.20E+00	2.52E+00
3	X/Q (SRC 3)	1.35E+00	1.51E+00	1.65E+00	1.66E+00	1.77E+00	1.67E+00	1.37E+00	1.11E+00	9.62E-01	8.82E-01	1.05E+00	1.14E+00	1.24E+00	1.35E+00	1.49E+00
4	X/Q (SRC 4)	1.30E+00	1.35E+00	1.34E+00	1.47E+00	1.41E+00	1.16E+00	9.44E-01	8.12E-01	7.41E-01	6.98E-01	1.09E+00	1.19E+00	1.30E+00	1.41E+00	1.56E+00
5	X/Q (SRC 5)	2.74E+00	2.45E+00	2.24E+00	1.99E+00	1.72E+00	1.45E+00	1.27E+00	1.13E+00	1.02E+00	9.26E-01	1.67E+00	1.86E+00	2.07E+00	2.30E+00	2.61E+00
6	X/Q (SRC 6)	1.05E+00	1.06E+00	1.13E+00	1.17E+00	1.20E+00	1.13E+00	9.46E-01	7.78E-01	6.74E-01	6.21E-01	1.00E+00	1.10E+00	1.20E+00	1.30E+00	1.41E+00
7	X/Q (SRC 7)	2.14E+00	2.06E+00	2.34E+00	2.41E+00	2.47E+00	2.16E+00	1.73E+00	1.44E+00	1.27E+00	1.16E+00	1.12E+00	1.22E+00	1.33E+00	1.45E+00	1.61E+00
8	X/Q (SRC 8)	1.00E+00	1.03E+00	1.01E+00	9.83E-01	9.12E-01	8.23E-01	7.45E-01	6.74E-01	6.04E-01	5.47E-01	2.34E-01	2.55E-01	2.76E-01	2.99E-01	3.33E-01
9	X/Q (SRC 9)	9.96E-01	1.02E+00	1.01E+00	9.61E-01	9.00E-01	8.32E-01	7.73E-01	7.15E-01	6.53E-01	5.93E-01	1.01E+00	1.10E+00	1.20E+00	1.31E+00	1.47E+00
10	X/Q (SRC 10)	5.79E-01	6.04E-01	6.39E-01	6.63E-01	6.64E-01	6.47E-01	6.25E-01	5.93E-01	5.45E-01	4.90E-01	8.47E-01	9.17E-01	9.79E-01	1.03E+00	1.08E+00
11	X/Q (SRC 11)	1.27E+00	1.29E+00	1.40E+00	1.47E+00	1.49E+00	1.41E+00	1.25E+00	1.08E+00	9.28E-01	8.21E-01	9.85E-01	1.06E+00	1.15E+00	1.24E+00	1.36E+00
12	X/Q (SRC 12)	1.68E+00	1.65E+00	1.57E+00	1.42E+00	1.22E+00	1.04E+00	9.22E-01	8.38E-01	7.70E-01	7.18E-01	1.28E+00	1.41E+00	1.56E+00	1.74E+00	1.98E+00
13	X/Q (SRC 13)	2.91E+00	2.63E+00	2.36E+00	2.05E+00	1.73E+00	1.47E+00	1.30E+00	1.17E+00	1.05E+00	9.54E-01	1.68E+00	1.90E+00	2.15E+00	2.43E+00	2.78E+00
14	X/Q (SRC 14)	1.78E+00	1.70E+00	1.63E+00	1.50E+00	1.35E+00	1.20E+00	1.08E+00	9.74E-01	8.79E-01	7.98E-01	1.28E+00	1.41E+00	1.56E+00	1.71E+00	1.92E+00
15	X/Q (SRC 15)	5.88E-01	6.23E-01	6.24E-01	5.84E-01	5.20E-01	4.56E-01	4.06E-01	3.71E-01	3.48E-01	3.34E-01	1.05E+00	1.04E+00	9.95E-01	9.44E-01	8.98E-01
16	X/Q (SRC 16)	5.53E+00	5.69E+00	5.96E+00	5.23E+00	4.26E+00	3.51E+00	3.00E+00	2.58E+00	2.26E+00	1.96E+00	1.45E+00	1.59E+00	1.74E+00	1.91E+00	2.17E+00
17	X/Q (SRC 17)	1.41E+00	1.19E+00	1.08E+00	9.87E-01	9.23E-01	8.56E-01	7.99E-01	7.49E-01	7.03E-01	6.61E-01	2.02E+00	2.28E+00	2.60E+00	3.00E+00	3.57E+00
18	X/Q (SRC 18)	1.77E+00	1.69E+00	1.61E+00	1.48E+00	1.33E+00	1.19E+00	1.07E+00	9.66E-01	8.72E-01	7.93E-01	1.29E+00	1.43E+00	1.58E+00	1.73E+00	1.95E+00
19	X/Q (SRC 19)	1.79E+00	1.70E+00	1.63E+00	1.49E+00	1.33E+00	1.18E+00	1.06E+00	9.49E-01	8.54E-01	7.74E-01	1.30E+00	1.44E+00	1.60E+00	1.77E+00	2.00E+00
20	X/Q (SRC 20)	2.27E+01	5.73E+01	7.86E+01	3.73E+01	2.11E+01	1.36E+01	9.74E+00	7.34E+00	5.70E+00	4.56E+00	1.01E+00	1.10E+00	1.20E+00	1.32E+00	1.47E+00
21	X/Q (SRC 21)	1.45E+00	1.29E+00	1.08E+00	9.27E-01	8.26E-01	7.60E-01	7.15E-01	6.78E-01	6.40E-01	6.07E-01	1.49E+00	1.65E+00	1.86E+00	2.12E+00	2.44E+00
22	X/Q (SRC 22)	1.30E+00	1.35E+00	1.35E+00	1.42E+00	1.34E+00	1.15E+00	9.70E-01	8.51E-01	7.73E-01	7.22E-01	1.08E+00	1.18E+00	1.29E+00	1.41E+00	1.55E+00
23	X/Q (SRC 23)	2.71E+00	2.45E+00	2.25E+00	2.00E+00	1.74E+00	1.49E+00	1.31E+00	1.17E+00	1.05E+00	9.50E-01	1.66E+00	1.85E+00	2.06E+00	2.26E+00	2.57E+00
24	X/Q (SRC 24)	1.07E+00	1.08E+00	1.13E+00	1.16E+00	1.16E+00	1.08E+00	9.38E-01	8.03E-01	7.06E-01	6.47E-01	1.00E+00	1.09E+00	1.19E+00	1.29E+00	1.39E+00
25	X/Q (SRC 25)	2.18E+00	2.11E+00	2.33E+00	2.39E+00	2.38E+00	2.10E+00	1.76E+00	1.49E+00	1.32E+00	1.20E+00	1.12E+00	1.22E+00	1.32E+00	1.43E+00	1.59E+00
26	X/Q (SRC 26)	1.00E+00	1.01E+00	1.00E+00	9.54E-01	8.99E-01	8.35E-01	7.78E-01	7.22E-01	6.63E-01	6.08E-01	1.01E+00	1.10E+00	1.20E+00	1.30E+00	1.45E+00
27	X/Q (SRC 27)	5.95E-01	6.12E-01	6.40E-01	6.57E-01	6.55E-01	6.37E-01	6.16E-01	5.85E-01	5.42E-01	4.94E-01	8.44E-01	9.09E-01	9.68E-01	1.01E+00	1.06E+00
28	X/Q (SRC 28)	1.31E+00	1.31E+00	1.41E+00	1.46E+00	1.46E+00	1.37E+00	1.24E+00	1.09E+00	9.52E-01	8.51E-01	9.79E-01	1.06E+00	1.14E+00	1.23E+00	1.35E+00
29	X/Q (SRC 29)	1.66E+00	1.63E+00	1.54E+00	1.40E+00	1.23E+00	1.07E+00	9.53E-01	8.69E-01	7.99E-01	7.43E-01	1.27E+00	1.40E+00	1.55E+00	1.73E+00	1.95E+00
30	X/Q (SRC 30)	2.88E+00	2.61E+00	2.35E+00	2.06E+00	1.76E+00	1.51E+00	1.34E+00	1.20E+00	1.08E+00	9.78E-01	1.67E+00	1.88E+00	2.14E+00	2.41E+00	2.75E+00
31	X/Q (SRC 31)	1.44E+00	1.24E+00	1.12E+00	1.03E+00	9.59E-01	8.90E-01	8.30E-01	7.76E-01	7.25E-01	6.79E-01	2.00E+00	2.26E+00	2.57E+00	2.92E+00	3.43E+00
32	X/Q (SRC 32)	3.76E-01	3.57E-01	3.38E-01	3.19E-01	3.00E-01	2.82E-01	2.67E-01	2.55E-01	2.45E-01	2.36E-01	7.00E-01	6.72E-01	6.77E-01	6.59E-01	6.51E-01
33	X/Q (SRC 33)	1.81E+00	1.36E+00	1.11E+00	9.99E-01	9.40E-01	8.69E-01	7.97E-01	7.40E-01	6.99E-01	6.66E-01	1.78E+00	1.96E+00	2.21E+00	2.45E+00	2.89E+00
34	X/Q (SRC 34)	6.48E-01	7.35E-01	7.19E-01	6.38E-01	5.33E-01	4.40E-01	3.80E-01	3.48E-01	3.33E-01	3.27E-01	1.26E+00	1.22E+00	1.06E+00	1.02E+00	1.03E+00
35	X/Q (SRC 35)	1.81E+00	2.19E+00	2.36E+00	2.53E+00	2.56E+00	1.94E+00	1.47E+00	1.28E+00	1.18E+00	1.08E+00	1.16E+00	1.28E+00	1.41E+00	1.56E+00	1.74E+00
36	X/Q (SRC 36)	6.23E-01	6.52E-01	6.87E-01	6.89E-01	6.39E-01	5.60E-01	4.83E-01	4.23E-01	3.84E-01	3.61E-01	1.05E+00	1.14E+00	1.17E+00	1.14E+00	1.09E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
1	X/Q (SRC 1)	2.79E+00	2.68E+00	2.53E+00	2.26E+00	2.02E+00	1.59E+00	1.78E+00	1.93E+00	1.95E+00	2.09E+00	1.84E+00	1.46E+00	1.20E+00	1.07E+00	9.84E-01
2	X/Q (SRC 2)	2.93E+00	3.44E+00	4.11E+00	5.00E+00	6.24E+00	8.17E+00	1.04E+01	1.05E+01	8.85E+00	8.81E+00	9.02E+00	7.68E+00	5.78E+00	4.56E+00	3.77E+00
3	X/Q (SRC 3)	1.64E+00	1.83E+00	2.04E+00	2.32E+00	2.76E+00	3.28E+00	3.36E+00	3.13E+00	2.77E+00	2.53E+00	2.00E+00	2.28E+00	2.41E+00	2.51E+00	2.42E+00
4	X/Q (SRC 4)	1.72E+00	1.95E+00	2.32E+00	2.66E+00	2.65E+00	2.50E+00	2.29E+00	2.09E+00	1.64E+00	1.56E+00	1.84E+00	1.86E+00	1.98E+00	1.96E+00	1.60E+00
5	X/Q (SRC 5)	3.01E+00	3.48E+00	4.08E+00	4.81E+00	5.44E+00	5.94E+00	6.59E+00	6.84E+00	6.40E+00	5.69E+00	4.85E+00	4.03E+00	3.54E+00	2.97E+00	2.37E+00
6	X/Q (SRC 6)	1.50E+00	1.60E+00	1.67E+00	1.73E+00	1.80E+00	1.81E+00	1.80E+00	1.76E+00	1.65E+00	1.56E+00	1.47E+00	1.50E+00	1.58E+00	1.62E+00	1.55E+00
7	X/Q (SRC 7)	1.80E+00	2.02E+00	2.29E+00	2.63E+00	3.05E+00	3.64E+00	4.43E+00	4.97E+00	4.81E+00	4.29E+00	3.56E+00	3.39E+00	3.78E+00	3.88E+00	3.42E+00
8	X/Q (SRC 8)	3.77E-01	4.28E-01	4.91E-01	5.79E-01	6.78E-01	8.00E-01	9.35E-01	1.06E+00	1.16E+00	1.27E+00	1.31E+00	1.32E+00	1.32E+00	1.25E+00	1.14E+00
9	X/Q (SRC 9)	1.65E+00	1.81E+00	1.92E+00	1.93E+00	1.85E+00	1.70E+00	1.49E+00	1.34E+00	1.34E+00	1.37E+00	1.37E+00	1.33E+00	1.26E+00	1.18E+00	1.09E+00
10	X/Q (SRC 10)	1.11E+00	1.11E+00	1.09E+00	1.05E+00	9.75E-01	9.01E-01	8.38E-01	7.94E-01	7.63E-01	7.38E-01	7.28E-01	7.55E-01	7.94E-01	8.07E-01	7.88E-01
11	X/Q (SRC 11)	1.50E+00	1.69E+00	1.92E+00	2.17E+00	2.39E+00	2.55E+00	2.65E+00	2.63E+00	2.42E+00	2.15E+00	1.91E+00	1.90E+00	2.07E+00	2.13E+00	2.00E+00
12	X/Q (SRC 12)	2.25E+00	2.54E+00	2.84E+00	3.09E+00	3.18E+00	3.06E+00	2.74E+00	2.48E+00	2.42E+00	2.47E+00	2.44E+00	2.31E+00	2.07E+00	1.76E+00	1.48E+00
13	X/Q (SRC 13)	3.22E+00	3.77E+00	4.42E+00	4.99E+00	5.37E+00	5.84E+00	6.41E+00	6.48E+00	6.23E+00	5.99E+00	5.23E+00	4.52E+00	3.81E+00	3.05E+00	2.46E+00
14	X/Q (SRC 14)	2.18E+00	2.47E+00	2.78E+00	3.09E+00	3.28E+00	3.43E+00	3.52E+00	3.54E+00	3.40E+00	3.20E+00	2.93E+00	2.62E+00	2.40E+00	2.10E+00	1.81E+00
15	X/Q (SRC 15)	8.43E-01	8.07E-01	7.49E-01	6.27E-01	5.62E-01	5.94E-01	6.61E-01	6.90E-01	6.81E-01	6.96E-01	7.38E-01	7.46E-01	7.02E-01	6.22E-01	5.40E-01
16	X/Q (SRC 16)	2.49E+00	2.87E+00	3.35E+00	4.06E+00	4.92E+00	6.12E+00	7.86E+00	1.07E+01	1.41E+01	1.46E+01	1.34E+01	1.27E+01	1.17E+01	9.13E+00	7.20E+00
17	X/Q (SRC 17)	4.04E+00	3.99E+00	3.60E+00	3.19E+00	2.58E+00	3.03E+00	3.11E+00	3.19E+00	2.70E+00	2.09E+00	1.75E+00	1.54E+00	1.40E+00	1.28E+00	1.17E+00
18	X/Q (SRC 18)	2.21E+00	2.49E+00	2.79E+00	3.08E+00	3.25E+00	3.40E+00	3.49E+00	3.51E+00	3.37E+00	3.16E+00	2.89E+00	2.59E+00	2.37E+00	2.07E+00	1.79E+00
19	X/Q (SRC 19)	2.27E+00	2.56E+00	2.88E+00	3.20E+00	3.38E+00	3.55E+00	3.66E+00	3.69E+00	3.54E+00	3.29E+00	2.98E+00	2.65E+00	2.41E+00	2.09E+00	1.78E+00
20	X/Q (SRC 20)	1.65E+00	1.88E+00	2.15E+00	2.50E+00	2.97E+00	3.60E+00	4.51E+00	5.78E+00	7.83E+00	1.22E+01	2.14E+01	5.76E+01	8.11E+01	3.62E+01	2.07E+01
21	X/Q (SRC 21)	2.67E+00	2.65E+00	2.49E+00	2.27E+00	2.00E+00	1.67E+00	1.80E+00	1.92E+00	1.94E+00	2.00E+00	1.79E+00	1.48E+00	1.26E+00	1.11E+00	1.02E+00
22	X/Q (SRC 22)	1.73E+00	1.96E+00	2.26E+00	2.52E+00	2.58E+00	2.47E+00	2.28E+00	2.05E+00	1.69E+00	1.62E+00	1.82E+00	1.87E+00	1.93E+00	1.86E+00	1.58E+00
23	X/Q (SRC 23)	2.97E+00	3.42E+00	3.98E+00	4.65E+00	5.22E+00	5.69E+00	6.26E+00	6.47E+00	6.09E+00	5.51E+00	4.76E+00	4.00E+00	3.52E+00	2.97E+00	2.42E+00
24	X/Q (SRC 24)	1.49E+00	1.58E+00	1.65E+00	1.72E+00	1.77E+00	1.79E+00	1.78E+00	1.74E+00	1.64E+00	1.57E+00	1.49E+00	1.50E+00	1.56E+00	1.57E+00	1.49E+00
25	X/Q (SRC 25)	1.78E+00	2.00E+00	2.26E+00	2.60E+00	3.03E+00	3.59E+00	4.26E+00	4.77E+00	4.68E+00	4.21E+00	3.58E+00	3.41E+00	3.72E+00	3.75E+00	3.32E+00
26	X/Q (SRC 26)	1.61E+00	1.76E+00	1.86E+00	1.90E+00	1.83E+00	1.69E+00	1.50E+00	1.37E+00	1.35E+00	1.37E+00	1.37E+00	1.32E+00	1.25E+00	1.18E+00	1.09E+00
27	X/Q (SRC 27)	1.09E+00	1.10E+00	1.08E+00	1.04E+00	9.81E-01	9.12E-01	8.51E-01	8.09E-01	7.74E-01	7.52E-01	7.45E-01	7.61E-01	7.90E-01	7.97E-01	7.78E-01
28	X/Q (SRC 28)	1.50E+00	1.68E+00	1.89E+00	2.13E+00	2.34E+00	2.50E+00	2.59E+00	2.58E+00	2.39E+00	2.15E+00	1.95E+00	1.92E+00	2.06E+00	2.08E+00	1.95E+00
29	X/Q (SRC 29)	2.22E+00	2.50E+00	2.78E+00	3.00E+00	3.09E+00	2.99E+00	2.72E+00	2.47E+00	2.40E+00	2.44E+00	2.40E+00	2.28E+00	2.05E+00	1.77E+00	1.52E+00
30	X/Q (SRC 30)	3.17E+00	3.69E+00	4.30E+00	4.80E+00	5.15E+00	5.59E+00	6.10E+00	6.14E+00	5.91E+00	5.73E+00	5.05E+00	4.42E+00	3.77E+00	3.07E+00	2.50E+00
31	X/Q (SRC 31)	3.86E+00	3.87E+00	3.50E+00	3.15E+00	2.68E+00	2.98E+00	3.07E+00	3.06E+00	2.66E+00	2.13E+00	1.82E+00	1.60E+00	1.45E+00	1.33E+00	1.21E+00
32	X/Q (SRC 32)	6.42E-01	6.17E-01	5.89E-01	5.64E-01	5.41E-01	5.22E-01	5.05E-01	4.87E-01	4.67E-01	4.47E-01	4.23E-01	4.00E-01	3.76E-01	3.53E-01	3.30E-01
33	X/Q (SRC 33)	3.74E+00	4.09E+00	3.73E+00	3.33E+00	2.99E+00	2.24E+00	2.75E+00	2.87E+00	3.18E+00	2.71E+00	1.97E+00	1.59E+00	1.44E+00	1.32E+00	1.18E+00
34	X/Q (SRC 34)	8.81E-01	8.50E-01	8.76E-01	5.97E-01	5.56E-01	6.00E-01	7.16E-01	7.50E-01	7.14E-01	7.44E-01	8.69E-01	8.78E-01	7.77E-01	6.37E-01	5.19E-01
35	X/Q (SRC 35)	1.94E+00	2.16E+00	2.43E+00	2.81E+00	3.26E+00	3.97E+00	5.10E+00	5.10E+00	4.64E+00	4.04E+00	3.01E+00	3.64E+00	3.84E+00	4.06E+00	3.03E+00
36	X/Q (SRC 36)	1.04E+00	9.75E-01	9.18E-01	8.42E-01	7.44E-01	6.54E-01	6.45E-01	7.02E-01	7.45E-01	7.61E-01	7.85E-01	8.19E-01	8.31E-01	7.77E-01	6.77E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
1	X/Q (SRC 1)	9.05E-01	8.41E-01	7.92E-01	7.42E-01	7.01E-01	1.75E+00	1.96E+00	2.21E+00	2.50E+00	2.94E+00	3.59E+00	4.02E+00	3.86E+00	3.52E+00	3.09E+00
2	X/Q (SRC 2)	3.13E+00	2.65E+00	2.29E+00	1.96E+00	1.70E+00	1.83E+00	2.06E+00	2.33E+00	2.66E+00	3.09E+00	3.64E+00	4.36E+00	5.34E+00	6.74E+00	8.70E+00
3	X/Q (SRC 3)	1.93E+00	1.54E+00	1.35E+00	1.22E+00	1.12E+00	1.16E+00	1.27E+00	1.40E+00	1.54E+00	1.72E+00	1.93E+00	2.17E+00	2.47E+00	2.83E+00	3.27E+00
4	X/Q (SRC 4)	1.26E+00	1.08E+00	9.95E-01	9.22E-01	8.60E-01	1.23E+00	1.35E+00	1.49E+00	1.64E+00	1.83E+00	2.05E+00	2.31E+00	2.66E+00	3.19E+00	3.73E+00
5	X/Q (SRC 5)	1.96E+00	1.68E+00	1.46E+00	1.28E+00	1.13E+00	1.94E+00	2.21E+00	2.52E+00	2.87E+00	3.36E+00	3.99E+00	4.84E+00	6.08E+00	8.19E+00	1.13E+01
6	X/Q (SRC 6)	1.27E+00	1.02E+00	8.97E-01	8.19E-01	7.66E-01	1.12E+00	1.22E+00	1.35E+00	1.49E+00	1.65E+00	1.80E+00	1.94E+00	2.08E+00	2.20E+00	2.31E+00
7	X/Q (SRC 7)	2.65E+00	2.17E+00	1.91E+00	1.70E+00	1.53E+00	1.26E+00	1.37E+00	1.51E+00	1.66E+00	1.86E+00	2.10E+00	2.39E+00	2.75E+00	3.23E+00	3.84E+00
8	X/Q (SRC 8)	1.00E+00	8.91E-01	8.08E-01	7.20E-01	6.51E-01	2.38E-01	2.59E-01	2.81E-01	3.06E-01	3.43E-01	3.88E-01	4.43E-01	5.12E-01	6.12E-01	7.25E-01
9	X/Q (SRC 9)	9.92E-01	9.11E-01	8.32E-01	7.49E-01	6.78E-01	1.14E+00	1.25E+00	1.37E+00	1.50E+00	1.70E+00	1.93E+00	2.19E+00	2.45E+00	2.67E+00	2.74E+00
10	X/Q (SRC 10)	7.50E-01	7.09E-01	6.58E-01	5.90E-01	5.26E-01	9.28E-01	1.01E+00	1.10E+00	1.18E+00	1.25E+00	1.32E+00	1.35E+00	1.36E+00	1.34E+00	1.26E+00
11	X/Q (SRC 11)	1.74E+00	1.48E+00	1.28E+00	1.11E+00	1.00E+00	1.10E+00	1.19E+00	1.30E+00	1.42E+00	1.57E+00	1.75E+00	1.96E+00	2.23E+00	2.60E+00	3.01E+00
12	X/Q (SRC 12)	1.28E+00	1.14E+00	1.04E+00	9.51E-01	8.78E-01	1.46E+00	1.62E+00	1.81E+00	2.04E+00	2.34E+00	2.72E+00	3.19E+00	3.72E+00	4.33E+00	4.84E+00
13	X/Q (SRC 13)	2.02E+00	1.73E+00	1.51E+00	1.31E+00	1.16E+00	1.96E+00	2.24E+00	2.59E+00	3.01E+00	3.55E+00	4.26E+00	5.24E+00	6.74E+00	9.09E+00	1.13E+01
14	X/Q (SRC 14)	1.55E+00	1.36E+00	1.20E+00	1.07E+00	9.57E-01	1.46E+00	1.63E+00	1.83E+00	2.04E+00	2.36E+00	2.74E+00	3.22E+00	3.88E+00	4.86E+00	5.82E+00
15	X/Q (SRC 15)	4.74E-01	4.32E-01	4.08E-01	3.90E-01	3.78E-01	1.22E+00	1.28E+00	1.26E+00	1.19E+00	1.15E+00	1.07E+00	1.00E+00	9.41E-01	7.93E-01	7.01E-01
16	X/Q (SRC 16)	5.65E+00	4.52E+00	3.68E+00	3.02E+00	2.51E+00	1.60E+00	1.77E+00	1.98E+00	2.21E+00	2.54E+00	2.95E+00	3.46E+00	4.13E+00	5.15E+00	6.55E+00
17	X/Q (SRC 17)	1.07E+00	9.81E-01	9.05E-01	8.34E-01	7.70E-01	2.41E+00	2.76E+00	3.20E+00	3.72E+00	4.58E+00	5.66E+00	6.58E+00	6.49E+00	5.80E+00	4.87E+00
18	X/Q (SRC 18)	1.53E+00	1.34E+00	1.19E+00	1.06E+00	9.50E-01	1.48E+00	1.65E+00	1.85E+00	2.07E+00	2.40E+00	2.79E+00	3.28E+00	3.91E+00	4.84E+00	5.74E+00
19	X/Q (SRC 19)	1.52E+00	1.32E+00	1.17E+00	1.04E+00	9.28E-01	1.50E+00	1.67E+00	1.89E+00	2.13E+00	2.46E+00	2.87E+00	3.39E+00	4.08E+00	5.16E+00	6.38E+00
20	X/Q (SRC 20)	1.35E+01	9.68E+00	7.39E+00	5.76E+00	4.64E+00	9.35E-01	1.02E+00	1.11E+00	1.22E+00	1.36E+00	1.52E+00	1.72E+00	1.97E+00	2.29E+00	2.68E+00
21	X/Q (SRC 21)	9.37E-01	8.74E-01	8.24E-01	7.70E-01	7.23E-01	1.73E+00	1.94E+00	2.20E+00	2.49E+00	2.92E+00	3.46E+00	3.84E+00	3.79E+00	3.49E+00	3.03E+00
22	X/Q (SRC 22)	1.29E+00	1.12E+00	1.03E+00	9.53E-01	8.91E-01	1.21E+00	1.33E+00	1.47E+00	1.63E+00	1.81E+00	2.03E+00	2.30E+00	2.66E+00	3.11E+00	3.52E+00
23	X/Q (SRC 23)	2.00E+00	1.71E+00	1.50E+00	1.30E+00	1.15E+00	1.91E+00	2.17E+00	2.47E+00	2.80E+00	3.29E+00	3.90E+00	4.71E+00	5.87E+00	7.76E+00	1.03E+01
24	X/Q (SRC 24)	1.26E+00	1.06E+00	9.37E-01	8.51E-01	7.93E-01	1.12E+00	1.22E+00	1.34E+00	1.48E+00	1.63E+00	1.77E+00	1.92E+00	2.05E+00	2.17E+00	2.27E+00
25	X/Q (SRC 25)	2.68E+00	2.25E+00	1.98E+00	1.77E+00	1.59E+00	1.27E+00	1.39E+00	1.52E+00	1.65E+00	1.85E+00	2.10E+00	2.38E+00	2.73E+00	3.19E+00	3.78E+00
26	X/Q (SRC 26)	1.00E+00	9.20E-01	8.45E-01	7.67E-01	7.00E-01	1.14E+00	1.24E+00	1.36E+00	1.49E+00	1.68E+00	1.90E+00	2.14E+00	2.37E+00	2.60E+00	2.68E+00
27	X/Q (SRC 27)	7.41E-01	7.01E-01	6.55E-01	5.94E-01	5.38E-01	9.28E-01	1.01E+00	1.09E+00	1.16E+00	1.24E+00	1.30E+00	1.33E+00	1.34E+00	1.32E+00	1.26E+00
28	X/Q (SRC 28)	1.71E+00	1.49E+00	1.31E+00	1.15E+00	1.04E+00	1.10E+00	1.19E+00	1.29E+00	1.41E+00	1.56E+00	1.74E+00	1.95E+00	2.22E+00	2.56E+00	2.93E+00
29	X/Q (SRC 29)	1.32E+00	1.18E+00	1.08E+00	9.82E-01	9.04E-01	1.46E+00	1.62E+00	1.81E+00	2.03E+00	2.32E+00	2.69E+00	3.12E+00	3.63E+00	4.19E+00	4.64E+00
30	X/Q (SRC 30)	2.07E+00	1.76E+00	1.54E+00	1.34E+00	1.18E+00	1.93E+00	2.21E+00	2.55E+00	2.95E+00	3.48E+00	4.16E+00	5.09E+00	6.47E+00	8.44E+00	1.01E+01
31	X/Q (SRC 31)	1.10E+00	1.01E+00	9.27E-01	8.51E-01	7.84E-01	2.39E+00	2.73E+00	3.16E+00	3.65E+00	4.45E+00	5.42E+00	6.22E+00	6.19E+00	5.62E+00	4.92E+00
32	X/Q (SRC 32)	3.09E-01	2.93E-01	2.82E-01	2.70E-01	2.61E-01	9.03E-01	8.74E-01	8.87E-01	8.64E-01	8.46E-01	8.09E-01	7.60E-01	7.16E-01	6.84E-01	6.49E-01
33	X/Q (SRC 33)	1.08E+00	9.98E-01	9.34E-01	8.69E-01	8.08E-01	2.11E+00	2.39E+00	2.71E+00	3.08E+00	3.63E+00	4.38E+00	5.73E+00	6.46E+00	5.97E+00	5.22E+00
34	X/Q (SRC 34)	4.45E-01	4.09E-01	3.96E-01	3.89E-01	3.83E-01	1.36E+00	1.54E+00	1.48E+00	1.29E+00	1.30E+00	1.20E+00	1.05E+00	1.11E+00	7.88E-01	7.00E-01
35	X/Q (SRC 35)	2.25E+00	1.94E+00	1.74E+00	1.54E+00	1.39E+00	1.28E+00	1.40E+00	1.55E+00	1.72E+00	1.96E+00	2.25E+00	2.59E+00	3.00E+00	3.54E+00	4.21E+00
36	X/Q (SRC 36)	5.74E-01	5.00E-01	4.55E-01	4.28E-01	4.12E-01	1.12E+00	1.26E+00	1.39E+00	1.43E+00	1.40E+00	1.34E+00	1.25E+00	1.18E+00	1.08E+00	9.50E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
1	X/Q (SRC 1)	2.45E+00	2.80E+00	2.90E+00	3.04E+00	2.74E+00	2.12E+00	1.74E+00	1.55E+00	1.40E+00	1.26E+00	1.15E+00	1.06E+00	9.81E-01	9.06E-01	8.39E-01
2	X/Q (SRC 2)	1.21E+01	1.84E+01	2.56E+01	2.62E+01	2.55E+01	2.18E+01	1.55E+01	1.09E+01	7.88E+00	5.87E+00	4.53E+00	3.59E+00	2.93E+00	2.42E+00	2.04E+00
3	X/Q (SRC 3)	3.98E+00	4.92E+00	5.00E+00	4.57E+00	4.04E+00	3.24E+00	3.78E+00	3.94E+00	3.85E+00	3.03E+00	2.37E+00	2.03E+00	1.82E+00	1.63E+00	1.47E+00
4	X/Q (SRC 4)	3.75E+00	3.54E+00	3.09E+00	2.52E+00	2.36E+00	2.75E+00	2.87E+00	2.94E+00	2.37E+00	1.83E+00	1.56E+00	1.40E+00	1.28E+00	1.17E+00	1.08E+00
5	X/Q (SRC 5)	1.55E+01	1.90E+01	1.91E+01	1.72E+01	1.46E+01	1.14E+01	8.24E+00	6.56E+00	4.80E+00	3.60E+00	2.81E+00	2.26E+00	1.87E+00	1.57E+00	1.35E+00
6	X/Q (SRC 6)	2.39E+00	2.46E+00	2.53E+00	2.52E+00	2.36E+00	2.24E+00	2.28E+00	2.38E+00	2.32E+00	1.89E+00	1.48E+00	1.27E+00	1.16E+00	1.05E+00	9.68E-01
7	X/Q (SRC 7)	4.65E+00	5.79E+00	7.41E+00	8.62E+00	8.36E+00	7.04E+00	6.51E+00	7.09E+00	6.35E+00	4.80E+00	3.81E+00	3.20E+00	2.75E+00	2.37E+00	2.05E+00
8	X/Q (SRC 8)	8.79E-01	1.08E+00	1.26E+00	1.45E+00	1.57E+00	1.63E+00	1.68E+00	1.70E+00	1.59E+00	1.42E+00	1.26E+00	1.11E+00	9.96E-01	8.87E-01	7.97E-01
9	X/Q (SRC 9)	2.61E+00	2.27E+00	2.06E+00	2.05E+00	2.08E+00	1.96E+00	1.75E+00	1.63E+00	1.50E+00	1.36E+00	1.23E+00	1.10E+00	9.83E-01	8.77E-01	7.95E-01
10	X/Q (SRC 10)	1.17E+00	1.09E+00	1.03E+00	9.78E-01	9.50E-01	9.43E-01	9.63E-01	9.95E-01	9.86E-01	9.39E-01	8.83E-01	8.14E-01	7.31E-01	6.47E-01	5.83E-01
11	X/Q (SRC 11)	3.39E+00	3.71E+00	3.93E+00	3.92E+00	3.59E+00	3.22E+00	3.13E+00	3.37E+00	3.18E+00	2.70E+00	2.26E+00	1.89E+00	1.63E+00	1.43E+00	1.28E+00
12	X/Q (SRC 12)	5.12E+00	4.87E+00	4.52E+00	4.30E+00	4.08E+00	3.85E+00	3.43E+00	2.84E+00	2.32E+00	1.95E+00	1.68E+00	1.48E+00	1.32E+00	1.18E+00	1.07E+00
13	X/Q (SRC 13)	1.41E+01	1.63E+01	1.62E+01	1.59E+01	1.54E+01	1.38E+01	1.16E+01	7.81E+00	5.18E+00	3.74E+00	2.88E+00	2.31E+00	1.91E+00	1.61E+00	1.39E+00
14	X/Q (SRC 14)	6.78E+00	7.37E+00	7.43E+00	7.28E+00	6.98E+00	6.32E+00	5.06E+00	4.12E+00	3.23E+00	2.56E+00	2.09E+00	1.75E+00	1.50E+00	1.31E+00	1.15E+00
15	X/Q (SRC 15)	7.51E-01	8.36E-01	8.50E-01	8.47E-01	8.90E-01	9.17E-01	8.61E-01	7.60E-01	6.55E-01	5.73E-01	5.20E-01	4.88E-01	4.67E-01	4.49E-01	4.32E-01
16	X/Q (SRC 16)	8.54E+00	1.17E+01	1.75E+01	2.92E+01	4.71E+01	5.63E+01	4.19E+01	3.10E+01	2.04E+01	1.33E+01	9.11E+00	6.57E+00	4.96E+00	3.87E+00	3.11E+00
17	X/Q (SRC 17)	5.58E+00	5.50E+00	4.68E+00	3.58E+00	2.92E+00	2.50E+00	2.09E+00	1.87E+00	1.68E+00	1.49E+00	1.33E+00	1.19E+00	1.07E+00	9.64E-01	8.75E-01
18	X/Q (SRC 18)	6.67E+00	7.25E+00	7.31E+00	7.16E+00	6.86E+00	6.21E+00	4.97E+00	4.04E+00	3.18E+00	2.52E+00	2.07E+00	1.73E+00	1.49E+00	1.29E+00	1.14E+00
19	X/Q (SRC 19)	7.59E+00	8.25E+00	8.34E+00	8.16E+00	7.84E+00	7.08E+00	5.45E+00	4.21E+00	3.22E+00	2.52E+00	2.05E+00	1.71E+00	1.46E+00	1.27E+00	1.12E+00
20	X/Q (SRC 20)	3.25E+00	4.08E+00	5.20E+00	7.08E+00	1.07E+01	1.93E+01	5.87E+01	8.22E+01	3.46E+01	1.98E+01	1.32E+01	9.47E+00	7.22E+00	5.67E+00	4.59E+00
21	X/Q (SRC 21)	2.54E+00	2.77E+00	2.87E+00	2.92E+00	2.64E+00	2.16E+00	1.82E+00	1.61E+00	1.45E+00	1.31E+00	1.20E+00	1.10E+00	1.01E+00	9.27E-01	8.55E-01
22	X/Q (SRC 22)	3.65E+00	3.45E+00	3.04E+00	2.54E+00	2.40E+00	2.70E+00	2.84E+00	2.79E+00	2.33E+00	1.88E+00	1.62E+00	1.45E+00	1.33E+00	1.22E+00	1.12E+00
23	X/Q (SRC 23)	1.35E+01	1.64E+01	1.66E+01	1.52E+01	1.33E+01	1.07E+01	7.90E+00	6.37E+00	4.80E+00	3.62E+00	2.84E+00	2.29E+00	1.90E+00	1.60E+00	1.37E+00
24	X/Q (SRC 24)	2.36E+00	2.43E+00	2.48E+00	2.46E+00	2.33E+00	2.22E+00	2.26E+00	2.32E+00	2.22E+00	1.86E+00	1.53E+00	1.32E+00	1.20E+00	1.09E+00	1.00E+00
25	X/Q (SRC 25)	4.57E+00	5.66E+00	7.07E+00	8.14E+00	7.98E+00	6.87E+00	6.37E+00	6.79E+00	6.13E+00	4.82E+00	3.91E+00	3.29E+00	2.83E+00	2.43E+00	2.10E+00
26	X/Q (SRC 26)	2.56E+00	2.27E+00	2.07E+00	2.05E+00	2.05E+00	1.95E+00	1.73E+00	1.63E+00	1.52E+00	1.37E+00	1.24E+00	1.12E+00	1.01E+00	9.04E-01	8.22E-01
27	X/Q (SRC 27)	1.17E+00	1.10E+00	1.04E+00	9.91E-01	9.63E-01	9.56E-01	9.63E-01	9.85E-01	9.75E-01	9.29E-01	8.75E-01	8.09E-01	7.36E-01	6.62E-01	6.02E-01
28	X/Q (SRC 28)	3.30E+00	3.62E+00	3.81E+00	3.79E+00	3.52E+00	3.19E+00	3.11E+00	3.28E+00	3.10E+00	2.67E+00	2.27E+00	1.93E+00	1.68E+00	1.48E+00	1.33E+00
29	X/Q (SRC 29)	4.89E+00	4.70E+00	4.37E+00	4.17E+00	3.98E+00	3.76E+00	3.38E+00	2.85E+00	2.36E+00	2.00E+00	1.73E+00	1.52E+00	1.36E+00	1.21E+00	1.10E+00
30	X/Q (SRC 30)	1.23E+01	1.42E+01	1.42E+01	1.40E+01	1.35E+01	1.21E+01	1.04E+01	7.47E+00	5.14E+00	3.76E+00	2.91E+00	2.34E+00	1.94E+00	1.64E+00	1.41E+00
31	X/Q (SRC 31)	5.41E+00	5.28E+00	4.57E+00	3.65E+00	3.02E+00	2.59E+00	2.12E+00	1.93E+00	1.73E+00	1.53E+00	1.36E+00	1.21E+00	1.09E+00	9.80E-01	8.90E-01
32	X/Q (SRC 32)	6.22E-01	5.99E-01	5.71E-01	5.42E-01	5.12E-01	4.81E-01	4.52E-01	4.23E-01	3.93E-01	3.66E-01	3.45E-01	3.27E-01	3.14E-01	3.01E-01	2.90E-01
33	X/Q (SRC 33)	4.02E+00	4.83E+00	5.19E+00	4.60E+00	3.22E+00	2.61E+00	2.22E+00	1.96E+00	1.76E+00	1.58E+00	1.42E+00	1.28E+00	1.15E+00	1.04E+00	9.43E-01
34	X/Q (SRC 34)	7.77E-01	9.21E-01	9.27E-01	8.96E-01	1.04E+00	1.10E+00	9.69E-01	7.83E-01	6.28E-01	5.39E-01	4.99E-01	4.83E-01	4.72E-01	4.56E-01	4.33E-01
35	X/Q (SRC 35)	5.11E+00	6.45E+00	8.69E+00	8.96E+00	7.81E+00	6.04E+00	6.92E+00	7.37E+00	5.52E+00	4.02E+00	3.34E+00	2.83E+00	2.45E+00	2.14E+00	1.87E+00
36	X/Q (SRC 36)	8.45E-01	8.32E-01	8.97E-01	9.45E-01	9.75E-01	1.01E+00	1.02E+00	9.66E-01	8.42E-01	7.08E-01	6.12E-01	5.54E-01	5.22E-01	4.99E-01	4.78E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
1	X/Q (SRC 1)	2.05E+00	2.33E+00	2.67E+00	3.10E+00	3.64E+00	4.39E+00	5.54E+00	6.45E+00	6.10E+00	2.15E+00	1.88E+00	1.67E+00	1.49E+00	1.33E+00	1.19E+00
2	X/Q (SRC 2)	2.05E+00	2.32E+00	2.66E+00	3.10E+00	3.65E+00	4.40E+00	5.42E+00	6.90E+00	9.03E+00	2.10E+01	1.26E+01	8.50E+00	6.15E+00	4.64E+00	3.64E+00
3	X/Q (SRC 3)	1.32E+00	1.44E+00	1.59E+00	1.78E+00	1.99E+00	2.26E+00	2.59E+00	3.00E+00	3.50E+00	7.20E+00	5.50E+00	4.18E+00	3.49E+00	2.98E+00	2.57E+00
4	X/Q (SRC 4)	1.38E+00	1.53E+00	1.70E+00	1.91E+00	2.16E+00	2.46E+00	2.83E+00	3.29E+00	3.83E+00	3.91E+00	2.92E+00	2.46E+00	2.17E+00	1.92E+00	1.71E+00
5	X/Q (SRC 5)	2.18E+00	2.51E+00	2.93E+00	3.44E+00	4.12E+00	5.05E+00	6.45E+00	8.84E+00	1.42E+01	1.87E+01	9.09E+00	5.61E+00	3.93E+00	2.95E+00	2.33E+00
6	X/Q (SRC 6)	1.27E+00	1.39E+00	1.53E+00	1.71E+00	1.93E+00	2.16E+00	2.39E+00	2.63E+00	2.83E+00	4.05E+00	3.24E+00	2.45E+00	2.06E+00	1.79E+00	1.57E+00
7	X/Q (SRC 7)	1.44E+00	1.59E+00	1.76E+00	1.96E+00	2.21E+00	2.51E+00	2.90E+00	3.39E+00	4.08E+00	1.64E+01	1.15E+01	8.34E+00	6.37E+00	4.96E+00	3.95E+00
8	X/Q (SRC 8)	2.42E-01	2.62E-01	2.87E-01	3.15E-01	3.50E-01	3.94E-01	4.53E-01	5.28E-01	6.34E-01	2.11E+00	1.94E+00	1.79E+00	1.63E+00	1.45E+00	1.28E+00
9	X/Q (SRC 9)	1.30E+00	1.43E+00	1.58E+00	1.77E+00	2.00E+00	2.30E+00	2.68E+00	3.13E+00	3.70E+00	2.26E+00	2.00E+00	1.76E+00	1.55E+00	1.35E+00	1.18E+00
10	X/Q (SRC 10)	1.03E+00	1.12E+00	1.24E+00	1.36E+00	1.47E+00	1.57E+00	1.65E+00	1.70E+00	1.72E+00	1.27E+00	1.22E+00	1.14E+00	1.05E+00	9.38E-01	8.24E-01
11	X/Q (SRC 11)	1.23E+00	1.35E+00	1.49E+00	1.64E+00	1.83E+00	2.06E+00	2.34E+00	2.69E+00	3.17E+00	6.43E+00	5.09E+00	4.02E+00	3.22E+00	2.63E+00	2.21E+00
12	X/Q (SRC 12)	1.70E+00	1.90E+00	2.15E+00	2.45E+00	2.84E+00	3.36E+00	4.05E+00	4.98E+00	6.14E+00	4.27E+00	3.33E+00	2.71E+00	2.27E+00	1.93E+00	1.66E+00
13	X/Q (SRC 13)	2.24E+00	2.58E+00	3.01E+00	3.59E+00	4.37E+00	5.44E+00	7.07E+00	9.99E+00	1.64E+01	1.95E+01	8.95E+00	5.59E+00	3.96E+00	2.99E+00	2.37E+00
14	X/Q (SRC 14)	1.64E+00	1.85E+00	2.11E+00	2.43E+00	2.83E+00	3.38E+00	4.15E+00	5.36E+00	8.01E+00	8.96E+00	5.21E+00	3.68E+00	2.83E+00	2.27E+00	1.88E+00
15	X/Q (SRC 15)	1.35E+00	1.51E+00	1.60E+00	1.57E+00	1.50E+00	1.41E+00	1.30E+00	1.22E+00	1.04E+00	8.20E-01	7.11E-01	6.44E-01	6.03E-01	5.72E-01	5.46E-01
16	X/Q (SRC 16)	1.65E+00	1.84E+00	2.07E+00	2.35E+00	2.70E+00	3.15E+00	3.74E+00	4.53E+00	5.72E+00	1.05E+02	4.17E+01	2.15E+01	1.32E+01	8.85E+00	6.37E+00
17	X/Q (SRC 17)	2.90E+00	3.40E+00	4.05E+00	4.91E+00	6.09E+00	7.89E+00	1.05E+01	1.34E+01	1.47E+01	2.52E+00	2.16E+00	1.84E+00	1.60E+00	1.39E+00	1.23E+00
18	X/Q (SRC 18)	1.67E+00	1.88E+00	2.15E+00	2.48E+00	2.90E+00	3.47E+00	4.26E+00	5.49E+00	8.03E+00	8.68E+00	5.09E+00	3.62E+00	2.79E+00	2.24E+00	1.86E+00
19	X/Q (SRC 19)	1.70E+00	1.92E+00	2.20E+00	2.55E+00	3.00E+00	3.60E+00	4.48E+00	5.86E+00	9.05E+00	9.46E+00	5.23E+00	3.65E+00	2.78E+00	2.22E+00	1.83E+00
20	X/Q (SRC 20)	8.52E-01	9.22E-01	1.00E+00	1.10E+00	1.22E+00	1.36E+00	1.53E+00	1.74E+00	2.00E+00	7.20E+01	3.03E+01	1.79E+01	1.21E+01	8.86E+00	6.80E+00
21	X/Q (SRC 21)	2.03E+00	2.30E+00	2.64E+00	3.06E+00	3.60E+00	4.34E+00	5.34E+00	6.13E+00	5.89E+00	2.23E+00	1.94E+00	1.72E+00	1.53E+00	1.36E+00	1.21E+00
22	X/Q (SRC 22)	1.39E+00	1.53E+00	1.69E+00	1.89E+00	2.13E+00	2.43E+00	2.79E+00	3.25E+00	3.78E+00	3.83E+00	3.00E+00	2.54E+00	2.24E+00	1.98E+00	1.76E+00
23	X/Q (SRC 23)	2.12E+00	2.44E+00	2.83E+00	3.32E+00	3.95E+00	4.82E+00	6.10E+00	8.22E+00	1.27E+01	1.66E+01	8.77E+00	5.55E+00	3.93E+00	2.96E+00	2.34E+00
24	X/Q (SRC 24)	1.27E+00	1.39E+00	1.53E+00	1.71E+00	1.91E+00	2.13E+00	2.36E+00	2.59E+00	2.78E+00	3.84E+00	3.16E+00	2.50E+00	2.12E+00	1.84E+00	1.61E+00
25	X/Q (SRC 25)	1.43E+00	1.58E+00	1.75E+00	1.95E+00	2.20E+00	2.50E+00	2.89E+00	3.37E+00	4.04E+00	1.54E+01	1.13E+01	8.36E+00	6.43E+00	5.03E+00	4.01E+00
26	X/Q (SRC 26)	1.30E+00	1.42E+00	1.58E+00	1.76E+00	1.98E+00	2.26E+00	2.62E+00	3.04E+00	3.59E+00	2.27E+00	2.02E+00	1.78E+00	1.57E+00	1.38E+00	1.21E+00
27	X/Q (SRC 27)	1.03E+00	1.12E+00	1.23E+00	1.34E+00	1.45E+00	1.55E+00	1.63E+00	1.68E+00	1.70E+00	1.26E+00	1.20E+00	1.13E+00	1.04E+00	9.43E-01	8.42E-01
28	X/Q (SRC 28)	1.23E+00	1.35E+00	1.48E+00	1.64E+00	1.82E+00	2.04E+00	2.32E+00	2.67E+00	3.13E+00	6.14E+00	4.98E+00	4.00E+00	3.26E+00	2.69E+00	2.27E+00
29	X/Q (SRC 29)	1.68E+00	1.88E+00	2.13E+00	2.43E+00	2.82E+00	3.32E+00	3.98E+00	4.86E+00	5.90E+00	4.30E+00	3.38E+00	2.76E+00	2.31E+00	1.97E+00	1.70E+00
30	X/Q (SRC 30)	2.18E+00	2.50E+00	2.92E+00	3.47E+00	4.20E+00	5.20E+00	6.70E+00	9.29E+00	1.43E+01	1.74E+01	8.64E+00	5.51E+00	3.94E+00	3.00E+00	2.38E+00
31	X/Q (SRC 31)	2.88E+00	3.37E+00	4.00E+00	4.83E+00	5.92E+00	7.57E+00	9.91E+00	1.24E+01	1.35E+01	2.57E+00	2.20E+00	1.88E+00	1.62E+00	1.42E+00	1.25E+00
32	X/Q (SRC 32)	1.23E+00	1.20E+00	1.22E+00	1.20E+00	1.12E+00	1.04E+00	9.68E-01	9.05E-01	8.51E-01	4.79E-01	4.42E-01	4.12E-01	3.89E-01	3.70E-01	3.53E-01
33	X/Q (SRC 33)	2.42E+00	2.82E+00	3.32E+00	3.96E+00	4.77E+00	5.88E+00	7.49E+00	1.04E+01	1.28E+01	2.86E+00	2.43E+00	2.07E+00	1.78E+00	1.54E+00	1.35E+00
34	X/Q (SRC 34)	1.36E+00	1.67E+00	1.94E+00	1.85E+00	1.65E+00	1.65E+00	1.40E+00	1.41E+00	1.08E+00	7.86E-01	6.77E-01	6.32E-01	6.10E-01	5.83E-01	5.48E-01
35	X/Q (SRC 35)	1.51E+00	1.66E+00	1.84E+00	2.05E+00	2.31E+00	2.64E+00	3.07E+00	3.63E+00	4.44E+00	1.37E+01	9.32E+00	7.02E+00	5.47E+00	4.34E+00	3.49E+00
36	X/Q (SRC 36)	1.24E+00	1.38E+00	1.57E+00	1.74E+00	1.81E+00	1.78E+00	1.68E+00	1.57E+00	1.44E+00	1.08E+00	9.02E-01	7.74E-01	7.01E-01	6.55E-01	6.20E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
1	X/Q (SRC 1)	1.08E+00	9.75E-01	2.43E+00	2.79E+00	3.27E+00	3.88E+00	4.69E+00	5.82E+00	7.45E+00	1.00E+01	1.23E+01	3.08E+00	2.56E+00	2.18E+00	1.87E+00
2	X/Q (SRC 2)	2.94E+00	2.43E+00	2.03E+00	2.30E+00	2.63E+00	3.06E+00	3.59E+00	4.31E+00	5.29E+00	6.67E+00	8.62E+00	3.22E+01	1.79E+01	1.16E+01	8.05E+00
3	X/Q (SRC 3)	2.23E+00	1.95E+00	1.52E+00	1.67E+00	1.86E+00	2.09E+00	2.37E+00	2.72E+00	3.16E+00	3.73E+00	4.44E+00	1.40E+01	9.57E+00	7.37E+00	5.77E+00
4	X/Q (SRC 4)	1.54E+00	1.39E+00	1.59E+00	1.76E+00	1.97E+00	2.23E+00	2.55E+00	2.95E+00	3.48E+00	4.16E+00	4.99E+00	5.72E+00	4.54E+00	3.82E+00	3.23E+00
5	X/Q (SRC 5)	1.90E+00	1.60E+00	2.28E+00	2.63E+00	3.08E+00	3.64E+00	4.39E+00	5.39E+00	6.83E+00	9.27E+00	1.53E+01	3.64E+01	1.40E+01	7.86E+00	5.18E+00
6	X/Q (SRC 6)	1.39E+00	1.24E+00	1.45E+00	1.59E+00	1.77E+00	1.99E+00	2.27E+00	2.60E+00	2.98E+00	3.38E+00	3.77E+00	8.46E+00	5.55E+00	4.19E+00	3.28E+00
7	X/Q (SRC 7)	3.21E+00	2.65E+00	1.61E+00	1.79E+00	2.00E+00	2.26E+00	2.59E+00	2.99E+00	3.51E+00	4.18E+00	5.16E+00	5.69E+01	2.72E+01	1.60E+01	1.05E+01
8	X/Q (SRC 8)	1.13E+00	1.01E+00	2.43E-01	2.63E-01	2.89E-01	3.18E-01	3.58E-01	4.04E-01	4.60E-01	5.36E-01	6.47E-01	2.48E+00	2.51E+00	2.53E+00	2.36E+00
9	X/Q (SRC 9)	1.05E+00	9.52E-01	1.49E+00	1.66E+00	1.86E+00	2.10E+00	2.42E+00	2.83E+00	3.36E+00	4.08E+00	5.18E+00	3.26E+00	2.76E+00	2.34E+00	1.98E+00
10	X/Q (SRC 10)	7.36E-01	6.75E-01	1.17E+00	1.27E+00	1.40E+00	1.56E+00	1.73E+00	1.90E+00	2.05E+00	2.16E+00	2.24E+00	1.66E+00	1.55E+00	1.42E+00	1.27E+00
11	X/Q (SRC 11)	1.91E+00	1.67E+00	1.39E+00	1.53E+00	1.70E+00	1.90E+00	2.15E+00	2.45E+00	2.82E+00	3.31E+00	3.97E+00	1.76E+01	9.94E+00	6.75E+00	4.94E+00
12	X/Q (SRC 12)	1.46E+00	1.29E+00	1.95E+00	2.20E+00	2.52E+00	2.93E+00	3.45E+00	4.16E+00	5.18E+00	6.67E+00	8.87E+00	7.05E+00	4.97E+00	3.82E+00	3.05E+00
13	X/Q (SRC 13)	1.95E+00	1.64E+00	2.37E+00	2.72E+00	3.20E+00	3.82E+00	4.66E+00	5.86E+00	7.71E+00	1.10E+01	1.87E+01	2.70E+01	1.22E+01	7.44E+00	5.10E+00
14	X/Q (SRC 14)	1.60E+00	1.38E+00	1.80E+00	2.03E+00	2.33E+00	2.70E+00	3.20E+00	3.86E+00	4.79E+00	6.27E+00	9.72E+00	1.39E+01	7.62E+00	5.11E+00	3.76E+00
15	X/Q (SRC 15)	5.22E-01	5.00E-01	1.50E+00	1.70E+00	1.93E+00	2.06E+00	2.03E+00	1.93E+00	1.77E+00	1.63E+00	1.41E+00	9.23E-01	8.31E-01	7.75E-01	7.31E-01
16	X/Q (SRC 16)	4.81E+00	3.75E+00	1.56E+00	1.74E+00	1.94E+00	2.18E+00	2.49E+00	2.86E+00	3.33E+00	3.93E+00	4.80E+00	9.98E+01	4.84E+01	2.62E+01	1.59E+01
17	X/Q (SRC 17)	1.09E+00	9.82E-01	3.54E+00	4.26E+00	5.19E+00	6.52E+00	8.57E+00	1.18E+01	1.75E+01	2.85E+01	6.22E+01	3.24E+00	2.67E+00	2.23E+00	1.88E+00
18	X/Q (SRC 18)	1.58E+00	1.37E+00	1.83E+00	2.08E+00	2.39E+00	2.78E+00	3.32E+00	4.03E+00	5.05E+00	6.70E+00	1.05E+01	1.35E+01	7.43E+00	5.01E+00	3.69E+00
19	X/Q (SRC 19)	1.56E+00	1.35E+00	1.88E+00	2.14E+00	2.46E+00	2.87E+00	3.44E+00	4.20E+00	5.32E+00	7.21E+00	1.22E+01	1.46E+01	7.69E+00	5.09E+00	3.71E+00
20	X/Q (SRC 20)	5.41E+00	4.43E+00	7.63E-01	8.20E-01	8.91E-01	9.73E-01	1.07E+00	1.18E+00	1.32E+00	1.49E+00	1.69E+00	3.53E+01	2.15E+01	1.45E+01	1.05E+01
21	X/Q (SRC 21)	1.09E+00	9.90E-01	2.43E+00	2.77E+00	3.24E+00	3.83E+00	4.60E+00	5.69E+00	7.27E+00	9.58E+00	1.14E+01	3.15E+00	2.61E+00	2.22E+00	1.91E+00
22	X/Q (SRC 22)	1.58E+00	1.42E+00	1.60E+00	1.76E+00	1.98E+00	2.24E+00	2.54E+00	2.93E+00	3.44E+00	4.10E+00	4.86E+00	5.82E+00	4.63E+00	3.90E+00	3.30E+00
23	X/Q (SRC 23)	1.92E+00	1.62E+00	2.23E+00	2.56E+00	2.98E+00	3.52E+00	4.23E+00	5.18E+00	6.54E+00	8.77E+00	1.39E+01	3.18E+01	1.32E+01	7.58E+00	5.06E+00
24	X/Q (SRC 24)	1.43E+00	1.28E+00	1.44E+00	1.58E+00	1.76E+00	1.98E+00	2.24E+00	2.57E+00	2.93E+00	3.33E+00	3.69E+00	7.83E+00	5.47E+00	4.21E+00	3.33E+00
25	X/Q (SRC 25)	3.26E+00	2.70E+00	1.56E+00	1.74E+00	1.94E+00	2.19E+00	2.51E+00	2.90E+00	3.40E+00	4.05E+00	4.99E+00	5.04E+01	2.60E+01	1.58E+01	1.04E+01
26	X/Q (SRC 26)	1.08E+00	9.82E-01	1.48E+00	1.65E+00	1.84E+00	2.08E+00	2.39E+00	2.79E+00	3.30E+00	3.96E+00	5.01E+00	3.28E+00	2.78E+00	2.36E+00	2.01E+00
27	X/Q (SRC 27)	7.61E-01	7.02E-01	1.16E+00	1.27E+00	1.39E+00	1.54E+00	1.71E+00	1.88E+00	2.02E+00	2.13E+00	2.21E+00	1.65E+00	1.54E+00	1.42E+00	1.28E+00
28	X/Q (SRC 28)	1.96E+00	1.71E+00	1.38E+00	1.52E+00	1.69E+00	1.89E+00	2.13E+00	2.42E+00	2.79E+00	3.25E+00	3.89E+00	1.59E+01	9.61E+00	6.72E+00	5.00E+00
29	X/Q (SRC 29)	1.49E+00	1.32E+00	1.91E+00	2.15E+00	2.47E+00	2.87E+00	3.37E+00	4.05E+00	5.02E+00	6.42E+00	8.37E+00	7.02E+00	4.99E+00	3.86E+00	3.09E+00
30	X/Q (SRC 30)	1.97E+00	1.66E+00	2.30E+00	2.63E+00	3.09E+00	3.69E+00	4.47E+00	5.61E+00	7.33E+00	1.03E+01	1.64E+01	2.41E+01	1.16E+01	7.20E+00	4.99E+00
31	X/Q (SRC 31)	1.11E+00	9.99E-01	3.47E+00	4.16E+00	5.06E+00	6.34E+00	8.27E+00	1.13E+01	1.64E+01	2.55E+01	4.94E+01	3.28E+00	2.71E+00	2.26E+00	1.91E+00
32	X/Q (SRC 32)	3.38E-01	3.24E-01	1.83E+00	1.79E+00	1.83E+00	1.71E+00	1.55E+00	1.41E+00	1.29E+00	1.19E+00	1.10E+00	5.50E-01	5.06E-01	4.74E-01	4.48E-01
33	X/Q (SRC 33)	1.19E+00	1.06E+00	2.97E+00	3.47E+00	4.12E+00	5.01E+00	6.31E+00	8.21E+00	1.12E+01	1.62E+01	2.75E+01	3.89E+00	3.13E+00	2.56E+00	2.14E+00
34	X/Q (SRC 34)	5.13E-01	4.85E-01	1.55E+00	1.73E+00	2.14E+00	2.54E+00	2.41E+00	2.23E+00	2.06E+00	1.86E+00	1.57E+00	8.99E-01	8.38E-01	7.93E-01	7.38E-01
35	X/Q (SRC 35)	2.86E+00	2.37E+00	1.75E+00	1.95E+00	2.19E+00	2.48E+00	2.85E+00	3.32E+00	3.91E+00	4.70E+00	5.84E+00	3.74E+01	2.05E+01	1.27E+01	8.59E+00
36	X/Q (SRC 36)	5.88E-01	5.58E-01	1.41E+00	1.56E+00	1.77E+00	2.03E+00	2.28E+00	2.39E+00	2.36E+00	2.19E+00	2.03E+00	1.21E+00	1.03E+00	9.27E-01	8.60E-01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
1	X/Q (SRC 1)	1.62E+00	1.41E+00	1.24E+00	1.11E+00	2.95E+00	3.44E+00	4.10E+00	5.00E+00	6.23E+00	8.01E+00	1.09E+01	1.58E+01	2.39E+01	4.20E+00	3.32E+00
2	X/Q (SRC 2)	5.88E+00	4.48E+00	3.54E+00	2.88E+00	1.80E+00	1.99E+00	2.23E+00	2.53E+00	2.88E+00	3.31E+00	3.87E+00	4.61E+00	5.53E+00	3.23E+01	1.96E+01
3	X/Q (SRC 3)	4.53E+00	3.61E+00	2.95E+00	2.46E+00	1.70E+00	1.90E+00	2.14E+00	2.43E+00	2.80E+00	3.25E+00	3.87E+00	4.68E+00	5.68E+00	3.78E+01	2.05E+01
4	X/Q (SRC 4)	2.71E+00	2.29E+00	1.97E+00	1.71E+00	1.86E+00	2.07E+00	2.35E+00	2.70E+00	3.12E+00	3.66E+00	4.40E+00	5.40E+00	6.59E+00	1.10E+01	7.84E+00
5	X/Q (SRC 5)	3.74E+00	2.86E+00	2.29E+00	1.89E+00	2.26E+00	2.60E+00	3.02E+00	3.57E+00	4.33E+00	5.39E+00	6.96E+00	9.82E+00	1.63E+01	2.11E+01	1.29E+01
6	X/Q (SRC 6)	2.62E+00	2.15E+00	1.82E+00	1.57E+00	1.65E+00	1.83E+00	2.05E+00	2.33E+00	2.68E+00	3.12E+00	3.70E+00	4.38E+00	5.04E+00	3.48E+01	1.25E+01
7	X/Q (SRC 7)	7.33E+00	5.41E+00	4.17E+00	3.31E+00	1.66E+00	1.85E+00	2.08E+00	2.36E+00	2.71E+00	3.16E+00	3.73E+00	4.50E+00	5.56E+00	1.51E+02	5.18E+01
8	X/Q (SRC 8)	2.03E+00	1.72E+00	1.47E+00	1.28E+00	2.42E-01	2.64E-01	2.90E-01	3.19E-01	3.58E-01	4.07E-01	4.66E-01	5.45E-01	6.45E-01	3.62E+00	3.85E+00
9	X/Q (SRC 9)	1.68E+00	1.45E+00	1.29E+00	1.15E+00	1.69E+00	1.90E+00	2.16E+00	2.47E+00	2.89E+00	3.45E+00	4.21E+00	5.34E+00	7.19E+00	4.85E+00	3.88E+00
10	X/Q (SRC 10)	1.11E+00	9.72E-01	8.82E-01	8.18E-01	1.32E+00	1.46E+00	1.61E+00	1.80E+00	2.04E+00	2.31E+00	2.58E+00	2.82E+00	2.99E+00	2.28E+00	2.07E+00
11	X/Q (SRC 11)	3.81E+00	3.05E+00	2.52E+00	2.13E+00	1.55E+00	1.72E+00	1.92E+00	2.17E+00	2.47E+00	2.86E+00	3.35E+00	4.00E+00	4.85E+00	4.55E+01	1.90E+01
12	X/Q (SRC 12)	2.49E+00	2.07E+00	1.77E+00	1.53E+00	2.13E+00	2.42E+00	2.80E+00	3.28E+00	3.91E+00	4.74E+00	5.97E+00	7.80E+00	1.04E+01	1.09E+01	7.13E+00
13	X/Q (SRC 13)	3.74E+00	2.89E+00	2.33E+00	1.93E+00	2.35E+00	2.68E+00	3.13E+00	3.73E+00	4.54E+00	5.69E+00	7.57E+00	1.08E+01	1.67E+01	1.94E+01	1.19E+01
14	X/Q (SRC 14)	2.91E+00	2.34E+00	1.94E+00	1.65E+00	1.89E+00	2.14E+00	2.46E+00	2.86E+00	3.39E+00	4.13E+00	5.16E+00	6.82E+00	9.79E+00	1.70E+01	9.63E+00
15	X/Q (SRC 15)	6.88E-01	6.49E-01	6.16E-01	5.86E-01	1.72E+00	1.94E+00	2.24E+00	2.58E+00	2.80E+00	2.76E+00	2.57E+00	2.33E+00	2.01E+00	1.13E+00	1.04E+00
16	X/Q (SRC 16)	1.07E+01	7.62E+00	5.69E+00	4.39E+00	1.37E+00	1.50E+00	1.65E+00	1.81E+00	2.02E+00	2.26E+00	2.54E+00	2.91E+00	3.43E+00	5.07E+01	3.53E+01
17	X/Q (SRC 17)	1.62E+00	1.41E+00	1.24E+00	1.10E+00	4.01E+00	4.90E+00	6.12E+00	7.85E+00	1.06E+01	1.55E+01	2.46E+01	4.80E+01	1.57E+02	4.05E+00	3.25E+00
18	X/Q (SRC 18)	2.86E+00	2.30E+00	1.92E+00	1.64E+00	1.94E+00	2.20E+00	2.54E+00	2.96E+00	3.55E+00	4.37E+00	5.57E+00	7.63E+00	1.19E+01	1.64E+01	9.38E+00
19	X/Q (SRC 19)	2.86E+00	2.30E+00	1.91E+00	1.62E+00	1.98E+00	2.26E+00	2.61E+00	3.05E+00	3.67E+00	4.55E+00	5.87E+00	8.27E+00	1.43E+01	1.76E+01	9.72E+00
20	X/Q (SRC 20)	7.88E+00	6.17E+00	5.00E+00	4.14E+00	6.78E-01	7.25E-01	7.82E-01	8.49E-01	9.24E-01	1.01E+00	1.12E+00	1.26E+00	1.40E+00	1.29E+01	1.22E+01
21	X/Q (SRC 21)	1.64E+00	1.43E+00	1.26E+00	1.13E+00	2.91E+00	3.39E+00	4.04E+00	4.92E+00	6.12E+00	7.80E+00	1.05E+01	1.50E+01	2.18E+01	4.26E+00	3.36E+00
22	X/Q (SRC 22)	2.76E+00	2.33E+00	2.00E+00	1.73E+00	1.83E+00	2.04E+00	2.31E+00	2.66E+00	3.08E+00	3.61E+00	4.34E+00	5.31E+00	6.42E+00	1.10E+01	7.84E+00
23	X/Q (SRC 23)	3.68E+00	2.83E+00	2.27E+00	1.88E+00	2.22E+00	2.55E+00	2.96E+00	3.50E+00	4.22E+00	5.24E+00	6.71E+00	9.30E+00	1.47E+01	1.99E+01	1.23E+01
24	X/Q (SRC 24)	2.67E+00	2.19E+00	1.85E+00	1.60E+00	1.63E+00	1.80E+00	2.02E+00	2.30E+00	2.64E+00	3.05E+00	3.61E+00	4.26E+00	4.86E+00	2.87E+01	1.19E+01
25	X/Q (SRC 25)	7.35E+00	5.44E+00	4.20E+00	3.35E+00	1.59E+00	1.78E+00	2.00E+00	2.26E+00	2.59E+00	3.01E+00	3.55E+00	4.26E+00	5.24E+00	1.30E+02	4.85E+01
26	X/Q (SRC 26)	1.72E+00	1.49E+00	1.32E+00	1.19E+00	1.66E+00	1.87E+00	2.12E+00	2.43E+00	2.83E+00	3.37E+00	4.09E+00	5.15E+00	6.83E+00	4.84E+00	3.88E+00
27	X/Q (SRC 27)	1.13E+00	1.01E+00	9.17E-01	8.50E-01	1.31E+00	1.45E+00	1.60E+00	1.79E+00	2.02E+00	2.28E+00	2.53E+00	2.77E+00	2.92E+00	2.27E+00	2.06E+00
28	X/Q (SRC 28)	3.87E+00	3.11E+00	2.57E+00	2.17E+00	1.52E+00	1.69E+00	1.89E+00	2.13E+00	2.43E+00	2.80E+00	3.28E+00	3.90E+00	4.70E+00	3.99E+01	1.81E+01
29	X/Q (SRC 29)	2.52E+00	2.10E+00	1.80E+00	1.56E+00	2.08E+00	2.36E+00	2.72E+00	3.19E+00	3.78E+00	4.57E+00	5.74E+00	7.45E+00	9.79E+00	1.07E+01	7.04E+00
30	X/Q (SRC 30)	3.68E+00	2.85E+00	2.31E+00	1.92E+00	2.29E+00	2.61E+00	3.05E+00	3.64E+00	4.41E+00	5.50E+00	7.27E+00	1.02E+01	1.51E+01	1.82E+01	1.13E+01
31	X/Q (SRC 31)	1.64E+00	1.43E+00	1.26E+00	1.11E+00	3.84E+00	4.69E+00	5.83E+00	7.45E+00	1.00E+01	1.45E+01	2.26E+01	4.23E+01	1.16E+02	4.06E+00	3.26E+00
32	X/Q (SRC 32)	4.23E-01	4.00E-01	3.80E-01	3.62E-01	3.53E+00	3.46E+00	3.15E+00	2.69E+00	2.31E+00	2.01E+00	1.79E+00	1.61E+00	1.44E+00	6.43E-01	5.91E-01
33	X/Q (SRC 33)	1.82E+00	1.56E+00	1.36E+00	1.20E+00	3.57E+00	4.28E+00	5.22E+00	6.53E+00	8.51E+00	1.17E+01	1.72E+01	2.85E+01	6.05E+01	5.14E+00	3.98E+00
34	X/Q (SRC 34)	6.81E-01	6.36E-01	6.06E-01	5.82E-01	1.84E+00	2.07E+00	2.33E+00	2.86E+00	3.51E+00	3.34E+00	3.15E+00	2.72E+00	2.39E+00	1.17E+00	1.06E+00
35	X/Q (SRC 35)	6.18E+00	4.65E+00	3.64E+00	2.93E+00	1.81E+00	2.03E+00	2.29E+00	2.61E+00	3.02E+00	3.55E+00	4.23E+00	5.16E+00	6.48E+00	8.78E+01	3.72E+01
36	X/Q (SRC 36)	8.01E-01	7.48E-01	7.04E-01	6.65E-01	1.64E+00	1.83E+00	2.06E+00	2.36E+00	2.76E+00	3.15E+00	3.35E+00	3.29E+00	3.03E+00	1.46E+00	1.29E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285
1	X/Q (SRC 1)	2.71E+00	2.27E+00	1.92E+00	1.64E+00	1.43E+00	1.26E+00	3.39E+00	4.03E+00	4.91E+00	6.15E+00	7.98E+00	1.08E+01	1.57E+01	2.53E+01	4.76E+01
2	X/Q (SRC 2)	1.31E+01	9.27E+00	6.85E+00	5.23E+00	4.13E+00	3.34E+00	1.45E+00	1.57E+00	1.71E+00	1.88E+00	2.08E+00	2.33E+00	2.69E+00	3.20E+00	3.96E+00
3	X/Q (SRC 3)	1.29E+01	8.92E+00	6.41E+00	4.81E+00	3.77E+00	3.03E+00	1.75E+00	1.95E+00	2.20E+00	2.52E+00	2.91E+00	3.39E+00	4.04E+00	4.91E+00	6.06E+00
4	X/Q (SRC 4)	5.90E+00	4.61E+00	3.64E+00	2.93E+00	2.43E+00	2.04E+00	2.05E+00	2.33E+00	2.66E+00	3.10E+00	3.65E+00	4.36E+00	5.36E+00	6.78E+00	8.75E+00
5	X/Q (SRC 5)	8.33E+00	5.76E+00	4.25E+00	3.28E+00	2.63E+00	2.16E+00	2.20E+00	2.52E+00	2.95E+00	3.52E+00	4.34E+00	5.55E+00	7.44E+00	1.08E+01	1.79E+01
6	X/Q (SRC 6)	7.27E+00	5.00E+00	3.69E+00	2.86E+00	2.32E+00	1.93E+00	1.84E+00	2.06E+00	2.34E+00	2.69E+00	3.12E+00	3.66E+00	4.42E+00	5.43E+00	6.61E+00
7	X/Q (SRC 7)	2.57E+01	1.52E+01	1.00E+01	7.07E+00	5.26E+00	4.07E+00	1.56E+00	1.72E+00	1.92E+00	2.15E+00	2.44E+00	2.79E+00	3.23E+00	3.79E+00	4.51E+00
8	X/Q (SRC 8)	3.73E+00	3.41E+00	2.80E+00	2.28E+00	1.89E+00	1.58E+00	2.43E-01	2.64E-01	2.88E-01	3.20E-01	3.58E-01	4.03E-01	4.63E-01	5.41E-01	6.39E-01
9	X/Q (SRC 9)	3.12E+00	2.53E+00	2.13E+00	1.83E+00	1.59E+00	1.40E+00	1.86E+00	2.10E+00	2.40E+00	2.77E+00	3.26E+00	3.92E+00	4.84E+00	6.19E+00	8.33E+00
10	X/Q (SRC 10)	1.83E+00	1.58E+00	1.37E+00	1.22E+00	1.11E+00	1.02E+00	1.51E+00	1.68E+00	1.88E+00	2.13E+00	2.44E+00	2.83E+00	3.28E+00	3.75E+00	4.14E+00
11	X/Q (SRC 11)	1.11E+01	7.46E+00	5.41E+00	4.14E+00	3.28E+00	2.67E+00	1.66E+00	1.85E+00	2.08E+00	2.36E+00	2.71E+00	3.15E+00	3.72E+00	4.49E+00	5.52E+00
12	X/Q (SRC 12)	5.16E+00	3.97E+00	3.14E+00	2.55E+00	2.13E+00	1.80E+00	2.20E+00	2.50E+00	2.88E+00	3.37E+00	4.01E+00	4.84E+00	6.07E+00	7.91E+00	1.08E+01
13	X/Q (SRC 13)	7.94E+00	5.69E+00	4.25E+00	3.30E+00	2.66E+00	2.19E+00	2.24E+00	2.56E+00	2.99E+00	3.58E+00	4.41E+00	5.62E+00	7.67E+00	1.13E+01	1.87E+01
14	X/Q (SRC 14)	6.43E+00	4.67E+00	3.56E+00	2.83E+00	2.32E+00	1.94E+00	1.93E+00	2.19E+00	2.51E+00	2.94E+00	3.51E+00	4.29E+00	5.48E+00	7.39E+00	1.07E+01
15	X/Q (SRC 15)	9.63E-01	9.01E-01	8.40E-01	7.84E-01	7.34E-01	6.87E-01	2.03E+00	2.30E+00	2.64E+00	3.10E+00	3.68E+00	4.06E+00	3.96E+00	3.60E+00	3.09E+00
16	X/Q (SRC 16)	2.32E+01	1.55E+01	1.09E+01	8.06E+00	6.10E+00	4.77E+00	1.14E+00	1.22E+00	1.32E+00	1.43E+00	1.56E+00	1.72E+00	1.93E+00	2.20E+00	2.59E+00
17	X/Q (SRC 17)	2.65E+00	2.20E+00	1.86E+00	1.61E+00	1.40E+00	1.23E+00	3.83E+00	4.62E+00	5.71E+00	7.27E+00	9.73E+00	1.41E+01	2.33E+01	4.98E+01	1.99E+02
18	X/Q (SRC 18)	6.29E+00	4.59E+00	3.51E+00	2.79E+00	2.29E+00	1.92E+00	1.97E+00	2.25E+00	2.59E+00	3.04E+00	3.65E+00	4.52E+00	5.87E+00	8.24E+00	1.34E+01
19	X/Q (SRC 19)	6.43E+00	4.63E+00	3.53E+00	2.80E+00	2.29E+00	1.92E+00	2.02E+00	2.30E+00	2.65E+00	3.12E+00	3.76E+00	4.68E+00	6.17E+00	8.91E+00	1.63E+01
20	X/Q (SRC 20)	1.01E+01	8.15E+00	6.55E+00	5.34E+00	4.45E+00	3.76E+00	6.03E-01	6.44E-01	6.90E-01	7.44E-01	8.07E-01	8.80E-01	9.70E-01	1.08E+00	1.20E+00
21	X/Q (SRC 21)	2.75E+00	2.30E+00	1.95E+00	1.67E+00	1.45E+00	1.27E+00	3.23E+00	3.84E+00	4.65E+00	5.82E+00	7.51E+00	1.00E+01	1.44E+01	2.28E+01	4.10E+01
22	X/Q (SRC 22)	5.93E+00	4.66E+00	3.68E+00	2.97E+00	2.46E+00	2.07E+00	1.97E+00	2.22E+00	2.54E+00	2.95E+00	3.48E+00	4.14E+00	5.07E+00	6.38E+00	8.18E+00
23	X/Q (SRC 23)	7.99E+00	5.58E+00	4.12E+00	3.19E+00	2.56E+00	2.11E+00	2.17E+00	2.49E+00	2.90E+00	3.46E+00	4.25E+00	5.38E+00	7.13E+00	1.01E+01	1.60E+01
24	X/Q (SRC 24)	7.18E+00	5.01E+00	3.71E+00	2.89E+00	2.34E+00	1.95E+00	1.81E+00	2.03E+00	2.29E+00	2.63E+00	3.05E+00	3.57E+00	4.29E+00	5.23E+00	6.31E+00
25	X/Q (SRC 25)	2.47E+01	1.48E+01	9.86E+00	7.00E+00	5.23E+00	4.06E+00	1.50E+00	1.66E+00	1.85E+00	2.08E+00	2.35E+00	2.69E+00	3.12E+00	3.66E+00	4.35E+00
26	X/Q (SRC 26)	3.15E+00	2.58E+00	2.18E+00	1.87E+00	1.63E+00	1.44E+00	1.83E+00	2.06E+00	2.35E+00	2.71E+00	3.18E+00	3.82E+00	4.69E+00	5.98E+00	7.93E+00
27	X/Q (SRC 27)	1.84E+00	1.62E+00	1.42E+00	1.27E+00	1.16E+00	1.06E+00	1.51E+00	1.67E+00	1.87E+00	2.11E+00	2.41E+00	2.78E+00	3.22E+00	3.66E+00	4.02E+00
28	X/Q (SRC 28)	1.09E+01	7.45E+00	5.44E+00	4.16E+00	3.31E+00	2.70E+00	1.62E+00	1.80E+00	2.02E+00	2.29E+00	2.63E+00	3.05E+00	3.60E+00	4.33E+00	5.30E+00
29	X/Q (SRC 29)	5.14E+00	3.98E+00	3.15E+00	2.57E+00	2.14E+00	1.82E+00	2.14E+00	2.43E+00	2.79E+00	3.27E+00	3.88E+00	4.67E+00	5.83E+00	7.56E+00	1.02E+01
30	X/Q (SRC 30)	7.63E+00	5.51E+00	4.13E+00	3.22E+00	2.60E+00	2.15E+00	2.20E+00	2.52E+00	2.93E+00	3.50E+00	4.30E+00	5.44E+00	7.32E+00	1.06E+01	1.65E+01
31	X/Q (SRC 31)	2.67E+00	2.21E+00	1.88E+00	1.62E+00	1.41E+00	1.24E+00	3.66E+00	4.41E+00	5.45E+00	6.92E+00	9.22E+00	1.33E+01	2.15E+01	4.36E+01	1.37E+02
32	X/Q (SRC 32)	5.51E-01	5.18E-01	4.85E-01	4.55E-01	4.28E-01	4.04E-01	1.75E+01	1.51E+01	7.07E+00	4.69E+00	3.60E+00	2.95E+00	2.54E+00	2.22E+00	1.95E+00
33	X/Q (SRC 33)	3.17E+00	2.58E+00	2.15E+00	1.83E+00	1.57E+00	1.37E+00	3.40E+00	4.04E+00	4.88E+00	6.02E+00	7.65E+00	1.01E+01	1.42E+01	2.20E+01	4.28E+01
34	X/Q (SRC 34)	9.67E-01	8.96E-01	8.40E-01	7.91E-01	7.44E-01	6.98E-01	2.22E+00	2.51E+00	2.88E+00	3.35E+00	4.14E+00	5.23E+00	5.07E+00	4.57E+00	3.92E+00
35	X/Q (SRC 35)	2.01E+01	1.25E+01	8.49E+00	6.14E+00	4.64E+00	3.63E+00	1.65E+00	1.83E+00	2.04E+00	2.30E+00	2.61E+00	3.00E+00	3.47E+00	4.05E+00	4.78E+00
36	X/Q (SRC 36)	1.18E+00	1.09E+00	1.00E+00	9.27E-01	8.61E-01	8.01E-01	1.92E+00	2.17E+00	2.48E+00	2.85E+00	3.36E+00	4.03E+00	4.71E+00	5.10E+00	4.94E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
1	X/Q (SRC 1)	5.48E+00	4.21E+00	3.33E+00	2.71E+00	2.26E+00	1.90E+00	1.63E+00	1.42E+00	3.25E+00	3.84E+00	4.61E+00	5.68E+00	7.18E+00	9.38E+00	1.32E+01
2	X/Q (SRC 2)	2.38E+01	1.72E+01	1.24E+01	9.14E+00	6.95E+00	5.42E+00	4.34E+00	3.56E+00	1.13E+00	1.21E+00	1.31E+00	1.44E+00	1.61E+00	1.83E+00	2.15E+00
3	X/Q (SRC 3)	8.47E+01	3.66E+01	1.99E+01	1.25E+01	8.55E+00	6.19E+00	4.68E+00	3.68E+00	1.62E+00	1.79E+00	1.99E+00	2.24E+00	2.54E+00	2.90E+00	3.37E+00
4	X/Q (SRC 4)	2.02E+01	1.26E+01	8.49E+00	6.14E+00	4.67E+00	3.65E+00	2.93E+00	2.42E+00	2.02E+00	2.28E+00	2.61E+00	3.02E+00	3.53E+00	4.19E+00	5.13E+00
5	X/Q (SRC 5)	1.25E+01	9.66E+00	7.30E+00	5.55E+00	4.29E+00	3.40E+00	2.76E+00	2.29E+00	2.14E+00	2.48E+00	2.92E+00	3.53E+00	4.43E+00	5.81E+00	8.13E+00
6	X/Q (SRC 6)	4.28E+01	1.91E+01	1.06E+01	6.81E+00	4.84E+00	3.64E+00	2.85E+00	2.31E+00	2.01E+00	2.27E+00	2.60E+00	3.01E+00	3.54E+00	4.22E+00	5.22E+00
7	X/Q (SRC 7)	1.23E+02	5.60E+01	3.01E+01	1.82E+01	1.20E+01	8.50E+00	6.29E+00	4.83E+00	1.35E+00	1.46E+00	1.60E+00	1.75E+00	1.93E+00	2.14E+00	2.40E+00
8	X/Q (SRC 8)	4.57E+00	5.29E+00	4.84E+00	4.10E+00	3.41E+00	2.74E+00	2.22E+00	1.84E+00	2.42E-01	2.62E-01	2.86E-01	3.16E-01	3.52E-01	3.97E-01	4.58E-01
9	X/Q (SRC 9)	7.25E+00	5.43E+00	4.21E+00	3.35E+00	2.75E+00	2.32E+00	1.97E+00	1.70E+00	1.96E+00	2.22E+00	2.53E+00	2.93E+00	3.46E+00	4.15E+00	5.13E+00
10	X/Q (SRC 10)	3.39E+00	2.96E+00	2.49E+00	2.10E+00	1.83E+00	1.62E+00	1.44E+00	1.29E+00	1.75E+00	1.96E+00	2.23E+00	2.55E+00	2.97E+00	3.50E+00	4.25E+00
11	X/Q (SRC 11)	6.27E+01	2.81E+01	1.59E+01	1.03E+01	7.20E+00	5.33E+00	4.10E+00	3.26E+00	1.67E+00	1.86E+00	2.08E+00	2.36E+00	2.70E+00	3.14E+00	3.71E+00
12	X/Q (SRC 12)	1.39E+01	9.20E+00	6.53E+00	4.89E+00	3.82E+00	3.06E+00	2.50E+00	2.10E+00	2.12E+00	2.40E+00	2.75E+00	3.20E+00	3.79E+00	4.59E+00	5.80E+00
13	X/Q (SRC 13)	1.29E+01	9.74E+00	7.29E+00	5.56E+00	4.35E+00	3.46E+00	2.82E+00	2.35E+00	2.10E+00	2.42E+00	2.85E+00	3.44E+00	4.29E+00	5.60E+00	7.93E+00
14	X/Q (SRC 14)	1.87E+01	1.11E+01	7.50E+00	5.44E+00	4.16E+00	3.28E+00	2.67E+00	2.22E+00	1.91E+00	2.18E+00	2.51E+00	2.94E+00	3.53E+00	4.36E+00	5.69E+00
15	X/Q (SRC 15)	1.48E+00	1.35E+00	1.23E+00	1.12E+00	1.03E+00	9.39E-01	8.61E-01	7.92E-01	2.42E+00	2.79E+00	3.24E+00	3.84E+00	4.64E+00	5.71E+00	6.56E+00
16	X/Q (SRC 16)	2.69E+01	2.20E+01	1.71E+01	1.30E+01	9.87E+00	7.65E+00	6.01E+00	4.79E+00	9.26E-01	9.87E-01	1.06E+00	1.14E+00	1.25E+00	1.39E+00	1.57E+00
17	X/Q (SRC 17)	4.93E+00	3.87E+00	3.13E+00	2.58E+00	2.15E+00	1.84E+00	1.59E+00	1.39E+00	3.03E+00	3.54E+00	4.22E+00	5.18E+00	6.69E+00	9.33E+00	1.47E+01
18	X/Q (SRC 18)	1.82E+01	1.09E+01	7.35E+00	5.34E+00	4.09E+00	3.23E+00	2.63E+00	2.19E+00	1.94E+00	2.21E+00	2.55E+00	3.00E+00	3.62E+00	4.50E+00	5.93E+00
19	X/Q (SRC 19)	1.94E+01	1.12E+01	7.50E+00	5.43E+00	4.14E+00	3.27E+00	2.65E+00	2.21E+00	1.98E+00	2.26E+00	2.61E+00	3.07E+00	3.71E+00	4.64E+00	6.19E+00
20	X/Q (SRC 20)	6.73E+00	7.32E+00	6.84E+00	6.01E+00	5.19E+00	4.45E+00	3.82E+00	3.31E+00	5.43E-01	5.78E-01	6.18E-01	6.65E-01	7.20E-01	7.85E-01	8.65E-01
21	X/Q (SRC 21)	5.49E+00	4.23E+00	3.35E+00	2.73E+00	2.27E+00	1.92E+00	1.65E+00	1.43E+00	3.10E+00	3.64E+00	4.37E+00	5.37E+00	6.76E+00	8.81E+00	1.24E+01
22	X/Q (SRC 22)	1.98E+01	1.24E+01	8.47E+00	6.14E+00	4.68E+00	3.67E+00	2.95E+00	2.44E+00	1.93E+00	2.18E+00	2.48E+00	2.87E+00	3.34E+00	3.95E+00	4.83E+00
23	X/Q (SRC 23)	1.21E+01	9.40E+00	7.07E+00	5.38E+00	4.17E+00	3.31E+00	2.69E+00	2.24E+00	2.11E+00	2.44E+00	2.88E+00	3.47E+00	4.33E+00	5.61E+00	7.75E+00
24	X/Q (SRC 24)	3.81E+01	1.81E+01	1.02E+01	6.68E+00	4.79E+00	3.62E+00	2.85E+00	2.32E+00	1.96E+00	2.21E+00	2.53E+00	2.93E+00	3.43E+00	4.09E+00	5.04E+00
25	X/Q (SRC 25)	1.11E+02	5.26E+01	2.86E+01	1.75E+01	1.16E+01	8.22E+00	6.10E+00	4.70E+00	1.32E+00	1.43E+00	1.57E+00	1.73E+00	1.91E+00	2.13E+00	2.40E+00
26	X/Q (SRC 26)	7.15E+00	5.41E+00	4.23E+00	3.40E+00	2.79E+00	2.35E+00	2.00E+00	1.73E+00	1.92E+00	2.17E+00	2.48E+00	2.87E+00	3.38E+00	4.05E+00	4.99E+00
27	X/Q (SRC 27)	3.37E+00	2.97E+00	2.53E+00	2.16E+00	1.89E+00	1.67E+00	1.48E+00	1.32E+00	1.75E+00	1.96E+00	2.22E+00	2.54E+00	2.94E+00	3.45E+00	4.16E+00
28	X/Q (SRC 28)	5.57E+01	2.68E+01	1.55E+01	1.01E+01	7.13E+00	5.29E+00	4.08E+00	3.25E+00	1.61E+00	1.79E+00	2.01E+00	2.28E+00	2.61E+00	3.02E+00	3.57E+00
29	X/Q (SRC 29)	1.34E+01	8.97E+00	6.40E+00	4.81E+00	3.77E+00	3.03E+00	2.48E+00	2.08E+00	2.06E+00	2.33E+00	2.67E+00	3.11E+00	3.68E+00	4.43E+00	5.59E+00
30	X/Q (SRC 30)	1.24E+01	9.43E+00	7.06E+00	5.39E+00	4.22E+00	3.37E+00	2.74E+00	2.29E+00	2.07E+00	2.38E+00	2.79E+00	3.36E+00	4.17E+00	5.38E+00	7.52E+00
31	X/Q (SRC 31)	4.84E+00	3.81E+00	3.09E+00	2.55E+00	2.13E+00	1.83E+00	1.58E+00	1.38E+00	2.97E+00	3.48E+00	4.16E+00	5.11E+00	6.61E+00	9.17E+00	1.42E+01
32	X/Q (SRC 32)	7.66E-01	7.04E-01	6.47E-01	5.98E-01	5.55E-01	5.14E-01	4.78E-01	4.46E-01	3.00E+01	3.23E+01	1.31E+01	7.67E+00	5.50E+00	4.38E+00	3.72E+00
33	X/Q (SRC 33)	6.74E+00	5.07E+00	3.94E+00	3.15E+00	2.58E+00	2.15E+00	1.83E+00	1.57E+00	2.64E+00	2.98E+00	3.41E+00	3.96E+00	4.74E+00	5.96E+00	8.19E+00
34	X/Q (SRC 34)	1.53E+00	1.38E+00	1.26E+00	1.15E+00	1.06E+00	9.64E-01	8.82E-01	8.10E-01	2.67E+00	3.11E+00	3.64E+00	4.34E+00	5.26E+00	6.69E+00	8.96E+00
35	X/Q (SRC 35)	8.19E+01	4.23E+01	2.44E+01	1.56E+01	1.07E+01	7.71E+00	5.80E+00	4.50E+00	1.40E+00	1.52E+00	1.65E+00	1.79E+00	1.95E+00	2.14E+00	2.38E+00
36	X/Q (SRC 36)	1.96E+00	1.75E+00	1.56E+00	1.41E+00	1.27E+00	1.15E+00	1.04E+00	9.44E-01	2.26E+00	2.60E+00	3.01E+00	3.55E+00	4.25E+00	5.20E+00	6.61E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315
1	X/Q (SRC 1)	1.99E+01	3.74E+01	6.87E+00	5.19E+00	4.03E+00	3.23E+00	2.65E+00	2.21E+00	1.87E+00	1.61E+00	2.59E+00	2.94E+00	3.37E+00	3.94E+00	4.70E+00
2	X/Q (SRC 2)	2.61E+00	3.35E+00	1.60E+01	1.28E+01	1.03E+01	8.22E+00	6.55E+00	5.24E+00	4.26E+00	3.53E+00	9.24E-01	9.97E-01	1.09E+00	1.21E+00	1.36E+00
3	X/Q (SRC 3)	3.93E+00	4.69E+00	7.82E+01	4.12E+01	2.36E+01	1.50E+01	1.03E+01	7.43E+00	5.59E+00	4.37E+00	1.38E+00	1.49E+00	1.62E+00	1.77E+00	1.95E+00
4	X/Q (SRC 4)	6.36E+00	8.25E+00	2.91E+01	1.74E+01	1.13E+01	7.90E+00	5.85E+00	4.45E+00	3.52E+00	2.86E+00	1.77E+00	1.96E+00	2.18E+00	2.46E+00	2.78E+00
5	X/Q (SRC 5)	1.21E+01	2.19E+01	8.79E+00	7.39E+00	6.04E+00	4.93E+00	4.04E+00	3.34E+00	2.77E+00	2.33E+00	2.08E+00	2.42E+00	2.89E+00	3.55E+00	4.52E+00
6	X/Q (SRC 6)	6.58E+00	8.73E+00	3.02E+01	1.85E+01	1.17E+01	7.93E+00	5.70E+00	4.27E+00	3.34E+00	2.70E+00	2.08E+00	2.36E+00	2.71E+00	3.18E+00	3.78E+00
7	X/Q (SRC 7)	2.72E+00	3.15E+00	5.63E+01	3.81E+01	2.54E+01	1.73E+01	1.21E+01	8.86E+00	6.70E+00	5.22E+00	1.09E+00	1.17E+00	1.25E+00	1.35E+00	1.46E+00
8	X/Q (SRC 8)	5.32E-01	6.35E-01	4.30E+00	5.13E+00	4.81E+00	4.23E+00	3.63E+00	2.91E+00	2.39E+00	2.00E+00	2.40E-01	2.58E-01	2.81E-01	3.11E-01	3.46E-01
9	X/Q (SRC 9)	6.58E+00	9.00E+00	1.08E+01	7.61E+00	5.74E+00	4.45E+00	3.51E+00	2.90E+00	2.41E+00	2.03E+00	1.98E+00	2.24E+00	2.56E+00	2.96E+00	3.49E+00
10	X/Q (SRC 10)	5.14E+00	6.13E+00	5.72E+00	4.62E+00	3.68E+00	3.02E+00	2.54E+00	2.15E+00	1.84E+00	1.60E+00	2.05E+00	2.33E+00	2.67E+00	3.12E+00	3.71E+00
11	X/Q (SRC 11)	4.46E+00	5.54E+00	6.85E+01	3.34E+01	1.94E+01	1.26E+01	8.72E+00	6.38E+00	4.85E+00	3.82E+00	1.55E+00	1.71E+00	1.90E+00	2.13E+00	2.41E+00
12	X/Q (SRC 12)	7.60E+00	1.08E+01	1.47E+01	1.02E+01	7.39E+00	5.57E+00	4.35E+00	3.47E+00	2.83E+00	2.37E+00	1.90E+00	2.14E+00	2.43E+00	2.82E+00	3.32E+00
13	X/Q (SRC 13)	1.23E+01	2.62E+01	9.51E+00	7.83E+00	6.31E+00	5.10E+00	4.17E+00	3.42E+00	2.85E+00	2.40E+00	1.93E+00	2.22E+00	2.61E+00	3.18E+00	3.99E+00
14	X/Q (SRC 14)	7.88E+00	1.29E+01	1.94E+01	1.21E+01	8.23E+00	6.03E+00	4.62E+00	3.65E+00	2.96E+00	2.46E+00	1.84E+00	2.09E+00	2.41E+00	2.84E+00	3.41E+00
15	X/Q (SRC 15)	6.23E+00	5.44E+00	1.99E+00	1.76E+00	1.55E+00	1.38E+00	1.23E+00	1.10E+00	9.88E-01	8.97E-01	2.95E+00	3.44E+00	4.07E+00	4.93E+00	6.12E+00
16	X/Q (SRC 16)	1.83E+00	2.20E+00	1.59E+01	1.41E+01	1.21E+01	9.94E+00	8.06E+00	6.75E+00	5.54E+00	4.55E+00	7.76E-01	8.30E-01	8.95E-01	9.74E-01	1.08E+00
17	X/Q (SRC 17)	2.84E+01	7.68E+01	5.55E+00	4.35E+00	3.53E+00	2.91E+00	2.42E+00	2.07E+00	1.78E+00	1.55E+00	2.21E+00	2.55E+00	3.02E+00	3.71E+00	4.85E+00
18	X/Q (SRC 18)	8.38E+00	1.44E+01	1.89E+01	1.18E+01	8.07E+00	5.92E+00	4.55E+00	3.60E+00	2.92E+00	2.43E+00	1.86E+00	2.11E+00	2.44E+00	2.87E+00	3.47E+00
19	X/Q (SRC 19)	8.97E+00	1.69E+01	2.02E+01	1.21E+01	8.23E+00	6.03E+00	4.61E+00	3.65E+00	2.96E+00	2.46E+00	1.89E+00	2.15E+00	2.48E+00	2.93E+00	3.55E+00
20	X/Q (SRC 20)	9.55E-01	1.07E+00	4.22E+00	4.77E+00	4.79E+00	4.49E+00	4.07E+00	3.62E+00	3.22E+00	2.87E+00	4.96E-01	5.28E-01	5.64E-01	6.07E-01	6.56E-01
21	X/Q (SRC 21)	1.85E+01	3.39E+01	6.70E+00	5.10E+00	3.97E+00	3.19E+00	2.63E+00	2.19E+00	1.86E+00	1.61E+00	2.53E+00	2.88E+00	3.32E+00	3.91E+00	4.68E+00
22	X/Q (SRC 22)	5.96E+00	7.71E+00	2.75E+01	1.68E+01	1.09E+01	7.70E+00	5.74E+00	4.39E+00	3.48E+00	2.84E+00	1.72E+00	1.90E+00	2.12E+00	2.39E+00	2.71E+00
23	X/Q (SRC 23)	1.12E+01	1.92E+01	8.60E+00	7.26E+00	5.92E+00	4.82E+00	3.94E+00	3.25E+00	2.70E+00	2.28E+00	2.05E+00	2.38E+00	2.83E+00	3.47E+00	4.39E+00
24	X/Q (SRC 24)	6.31E+00	8.29E+00	2.83E+01	1.78E+01	1.13E+01	7.72E+00	5.59E+00	4.20E+00	3.29E+00	2.66E+00	2.01E+00	2.28E+00	2.61E+00	3.05E+00	3.62E+00
25	X/Q (SRC 25)	2.73E+00	3.17E+00	5.33E+01	3.66E+01	2.44E+01	1.66E+01	1.16E+01	8.53E+00	6.45E+00	5.04E+00	1.09E+00	1.17E+00	1.26E+00	1.37E+00	1.49E+00
26	X/Q (SRC 26)	6.36E+00	8.62E+00	1.05E+01	7.53E+00	5.73E+00	4.46E+00	3.52E+00	2.91E+00	2.42E+00	2.04E+00	1.93E+00	2.19E+00	2.50E+00	2.89E+00	3.40E+00
27	X/Q (SRC 27)	4.98E+00	5.91E+00	5.62E+00	4.65E+00	3.75E+00	3.09E+00	2.60E+00	2.19E+00	1.88E+00	1.63E+00	2.03E+00	2.30E+00	2.64E+00	3.08E+00	3.64E+00
28	X/Q (SRC 28)	4.29E+00	5.31E+00	6.12E+01	3.19E+01	1.87E+01	1.22E+01	8.54E+00	6.25E+00	4.77E+00	3.77E+00	1.50E+00	1.66E+00	1.84E+00	2.07E+00	2.34E+00
29	X/Q (SRC 29)	7.27E+00	1.02E+01	1.41E+01	9.94E+00	7.20E+00	5.44E+00	4.26E+00	3.40E+00	2.78E+00	2.33E+00	1.86E+00	2.08E+00	2.37E+00	2.74E+00	3.23E+00
30	X/Q (SRC 30)	1.13E+01	2.14E+01	9.26E+00	7.65E+00	6.15E+00	4.97E+00	4.06E+00	3.33E+00	2.77E+00	2.35E+00	1.89E+00	2.18E+00	2.56E+00	3.10E+00	3.86E+00
31	X/Q (SRC 31)	2.63E+01	6.42E+01	5.37E+00	4.21E+00	3.43E+00	2.83E+00	2.36E+00	2.02E+00	1.74E+00	1.52E+00	2.24E+00	2.58E+00	3.05E+00	3.75E+00	4.86E+00
32	X/Q (SRC 32)	3.20E+00	2.81E+00	9.22E-01	8.37E-01	7.56E-01	6.88E-01	6.30E-01	5.75E-01	5.29E-01	4.90E-01	3.46E+01	3.70E+01	1.74E+01	1.10E+01	8.16E+00
33	X/Q (SRC 33)	1.30E+01	2.49E+01	7.84E+00	5.96E+00	4.69E+00	3.76E+00	3.06E+00	2.56E+00	2.16E+00	1.85E+00	1.85E+00	2.08E+00	2.39E+00	2.81E+00	3.44E+00
34	X/Q (SRC 34)	8.86E+00	7.63E+00	2.11E+00	1.85E+00	1.62E+00	1.42E+00	1.26E+00	1.12E+00	1.00E+00	9.01E-01	3.17E+00	3.76E+00	4.56E+00	5.68E+00	7.24E+00
35	X/Q (SRC 35)	2.69E+00	3.14E+00	4.47E+01	3.10E+01	2.17E+01	1.51E+01	1.07E+01	8.00E+00	6.17E+00	4.90E+00	1.08E+00	1.14E+00	1.22E+00	1.32E+00	1.44E+00
36	X/Q (SRC 36)	8.06E+00	8.96E+00	2.82E+00	2.42E+00	2.08E+00	1.80E+00	1.57E+00	1.37E+00	1.21E+00	1.08E+00	2.73E+00	3.17E+00	3.75E+00	4.52E+00	5.57E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330
1	X/Q (SRC 1)	5.92E+00	8.05E+00	1.23E+01	2.29E+01	7.76E+00	5.91E+00	4.62E+00	3.71E+00	3.04E+00	2.52E+00	2.13E+00	1.83E+00	1.89E+00	2.10E+00	2.40E+00
2	X/Q (SRC 2)	1.58E+00	1.88E+00	2.32E+00	2.92E+00	1.10E+01	9.39E+00	7.93E+00	6.75E+00	5.73E+00	4.81E+00	4.04E+00	3.41E+00	8.02E-01	8.68E-01	9.53E-01
3	X/Q (SRC 3)	2.17E+00	2.43E+00	2.75E+00	3.21E+00	4.42E+01	3.07E+01	2.10E+01	1.46E+01	1.05E+01	7.73E+00	5.94E+00	4.72E+00	1.10E+00	1.17E+00	1.25E+00
4	X/Q (SRC 4)	3.20E+00	3.73E+00	4.36E+00	5.35E+00	2.93E+01	1.87E+01	1.26E+01	9.02E+00	6.73E+00	5.14E+00	4.07E+00	3.31E+00	1.42E+00	1.53E+00	1.66E+00
5	X/Q (SRC 5)	6.10E+00	8.86E+00	1.42E+01	2.82E+01	6.95E+00	6.02E+00	5.11E+00	4.32E+00	3.66E+00	3.14E+00	2.69E+00	2.31E+00	1.96E+00	2.29E+00	2.76E+00
6	X/Q (SRC 6)	4.66E+00	5.93E+00	7.80E+00	1.14E+01	2.37E+01	1.62E+01	1.13E+01	8.18E+00	6.11E+00	4.66E+00	3.67E+00	2.98E+00	1.97E+00	2.23E+00	2.56E+00
7	X/Q (SRC 7)	1.61E+00	1.80E+00	2.04E+00	2.39E+00	2.79E+01	2.32E+01	1.80E+01	1.38E+01	1.06E+01	8.30E+00	6.49E+00	5.17E+00	8.79E-01	9.36E-01	1.00E+00
8	X/Q (SRC 8)	3.93E-01	4.53E-01	5.25E-01	6.28E-01	3.80E+00	4.27E+00	4.17E+00	3.88E+00	3.39E+00	2.81E+00	2.37E+00	2.02E+00	2.36E-01	2.54E-01	2.77E-01
9	X/Q (SRC 9)	4.20E+00	5.20E+00	6.75E+00	9.24E+00	1.83E+01	1.12E+01	7.81E+00	5.69E+00	4.36E+00	3.51E+00	2.85E+00	2.37E+00	1.89E+00	2.13E+00	2.43E+00
10	X/Q (SRC 10)	4.53E+00	5.69E+00	7.40E+00	9.93E+00	1.24E+01	8.29E+00	5.89E+00	4.44E+00	3.46E+00	2.79E+00	2.30E+00	1.93E+00	2.33E+00	2.67E+00	3.13E+00
11	X/Q (SRC 11)	2.78E+00	3.25E+00	3.86E+00	4.75E+00	6.70E+01	3.39E+01	2.04E+01	1.35E+01	9.56E+00	7.08E+00	5.41E+00	4.27E+00	1.33E+00	1.45E+00	1.59E+00
12	X/Q (SRC 12)	4.06E+00	5.14E+00	6.74E+00	9.75E+00	1.43E+01	1.03E+01	7.71E+00	5.93E+00	4.66E+00	3.73E+00	3.06E+00	2.57E+00	1.61E+00	1.78E+00	2.01E+00
13	X/Q (SRC 13)	5.33E+00	7.68E+00	1.23E+01	2.91E+01	7.68E+00	6.52E+00	5.45E+00	4.58E+00	3.86E+00	3.26E+00	2.78E+00	2.39E+00	1.69E+00	1.94E+00	2.28E+00
14	X/Q (SRC 14)	4.28E+00	5.65E+00	8.02E+00	1.42E+01	2.00E+01	1.25E+01	8.66E+00	6.40E+00	4.92E+00	3.91E+00	3.18E+00	2.64E+00	1.71E+00	1.94E+00	2.23E+00
15	X/Q (SRC 15)	7.95E+00	1.07E+01	1.28E+01	1.19E+01	2.64E+00	2.23E+00	1.91E+00	1.65E+00	1.43E+00	1.26E+00	1.12E+00	1.00E+00	3.61E+00	4.31E+00	5.27E+00
16	X/Q (SRC 16)	1.20E+00	1.38E+00	1.62E+00	1.94E+00	1.01E+01	9.65E+00	8.69E+00	7.43E+00	6.35E+00	5.59E+00	4.81E+00	4.12E+00	6.78E-01	7.30E-01	7.90E-01
17	X/Q (SRC 17)	6.82E+00	1.02E+01	1.66E+01	2.74E+01	5.67E+00	4.52E+00	3.70E+00	3.06E+00	2.58E+00	2.22E+00	1.92E+00	1.68E+00	1.73E+00	2.03E+00	2.44E+00
18	X/Q (SRC 18)	4.37E+00	5.80E+00	8.30E+00	1.48E+01	1.94E+01	1.22E+01	8.48E+00	6.29E+00	4.84E+00	3.85E+00	3.14E+00	2.61E+00	1.72E+00	1.95E+00	2.25E+00
19	X/Q (SRC 19)	4.49E+00	6.01E+00	8.81E+00	1.72E+01	2.08E+01	1.26E+01	8.66E+00	6.40E+00	4.92E+00	3.92E+00	3.19E+00	2.65E+00	1.74E+00	1.98E+00	2.29E+00
20	X/Q (SRC 20)	7.18E-01	7.88E-01	8.65E-01	9.62E-01	2.97E+00	3.36E+00	3.51E+00	3.44E+00	3.23E+00	2.95E+00	2.69E+00	2.45E+00	4.61E-01	4.89E-01	5.23E-01
21	X/Q (SRC 21)	5.91E+00	7.99E+00	1.20E+01	2.15E+01	7.45E+00	5.69E+00	4.45E+00	3.59E+00	2.94E+00	2.45E+00	2.07E+00	1.79E+00	1.92E+00	2.13E+00	2.43E+00
22	X/Q (SRC 22)	3.14E+00	3.68E+00	4.31E+00	5.33E+00	2.77E+01	1.79E+01	1.21E+01	8.65E+00	6.46E+00	4.94E+00	3.92E+00	3.20E+00	1.41E+00	1.52E+00	1.66E+00
23	X/Q (SRC 23)	5.88E+00	8.42E+00	1.30E+01	2.41E+01	6.84E+00	5.93E+00	5.04E+00	4.25E+00	3.59E+00	3.07E+00	2.62E+00	2.26E+00	1.92E+00	2.25E+00	2.69E+00
24	X/Q (SRC 24)	4.45E+00	5.65E+00	7.35E+00	1.05E+01	2.27E+01	1.57E+01	1.09E+01	7.96E+00	5.96E+00	4.55E+00	3.60E+00	2.93E+00	1.91E+00	2.15E+00	2.47E+00
25	X/Q (SRC 25)	1.64E+00	1.83E+00	2.07E+00	2.42E+00	2.71E+01	2.27E+01	1.76E+01	1.34E+01	1.02E+01	7.99E+00	6.26E+00	5.00E+00	8.95E-01	9.53E-01	1.02E+00
26	X/Q (SRC 26)	4.09E+00	5.05E+00	6.52E+00	8.85E+00	1.73E+01	1.10E+01	7.72E+00	5.65E+00	4.33E+00	3.49E+00	2.84E+00	2.36E+00	1.84E+00	2.07E+00	2.36E+00
27	X/Q (SRC 27)	4.44E+00	5.56E+00	7.12E+00	9.44E+00	1.17E+01	8.22E+00	5.92E+00	4.50E+00	3.51E+00	2.83E+00	2.33E+00	1.96E+00	2.25E+00	2.58E+00	3.01E+00
28	X/Q (SRC 28)	2.70E+00	3.16E+00	3.74E+00	4.60E+00	6.03E+01	3.23E+01	1.96E+01	1.31E+01	9.28E+00	6.87E+00	5.27E+00	4.17E+00	1.31E+00	1.43E+00	1.57E+00
29	X/Q (SRC 29)	3.94E+00	4.97E+00	6.46E+00	9.25E+00	1.38E+01	1.00E+01	7.48E+00	5.76E+00	4.55E+00	3.64E+00	2.99E+00	2.51E+00	1.59E+00	1.76E+00	1.98E+00
30	X/Q (SRC 30)	5.12E+00	7.28E+00	1.13E+01	2.35E+01	7.51E+00	6.39E+00	5.34E+00	4.48E+00	3.77E+00	3.18E+00	2.71E+00	2.33E+00	1.67E+00	1.91E+00	2.24E+00
31	X/Q (SRC 31)	6.73E+00	9.94E+00	1.59E+01	2.61E+01	5.48E+00	4.37E+00	3.58E+00	2.96E+00	2.49E+00	2.15E+00	1.86E+00	1.63E+00	1.76E+00	2.06E+00	2.48E+00
32	X/Q (SRC 32)	6.76E+00	5.81E+00	5.00E+00	4.43E+00	1.12E+00	9.88E-01	8.76E-01	7.85E-01	7.08E-01	6.38E-01	5.82E-01	5.35E-01	3.86E+01	4.04E+01	2.23E+01
33	X/Q (SRC 33)	4.48E+00	6.43E+00	9.76E+00	1.50E+01	7.71E+00	5.98E+00	4.79E+00	3.91E+00	3.26E+00	2.77E+00	2.37E+00	2.05E+00	1.47E+00	1.67E+00	1.92E+00
34	X/Q (SRC 34)	9.69E+00	1.37E+01	2.01E+01	2.12E+01	2.79E+00	2.32E+00	1.96E+00	1.68E+00	1.45E+00	1.27E+00	1.12E+00	1.01E+00	4.04E+00	4.87E+00	6.03E+00
35	X/Q (SRC 35)	1.60E+00	1.80E+00	2.07E+00	2.45E+00	2.47E+01	1.97E+01	1.56E+01	1.24E+01	9.69E+00	7.62E+00	5.98E+00	4.78E+00	8.59E-01	9.22E-01	9.97E-01
36	X/Q (SRC 36)	7.14E+00	9.57E+00	1.34E+01	1.87E+01	4.01E+00	3.23E+00	2.65E+00	2.21E+00	1.87E+00	1.61E+00	1.40E+00	1.23E+00	3.23E+00	3.83E+00	4.63E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345
1	X/Q (SRC 1)	2.81E+00	3.43E+00	4.44E+00	6.26E+00	9.33E+00	1.42E+01	7.70E+00	5.97E+00	4.76E+00	3.88E+00	3.22E+00	2.70E+00	2.30E+00	1.99E+00	1.48E+00
2	X/Q (SRC 2)	1.06E+00	1.21E+00	1.42E+00	1.71E+00	2.06E+00	2.45E+00	7.93E+00	7.04E+00	6.12E+00	5.35E+00	4.72E+00	4.16E+00	3.65E+00	3.18E+00	7.15E-01
3	X/Q (SRC 3)	1.35E+00	1.47E+00	1.62E+00	1.83E+00	2.11E+00	2.51E+00	2.46E+01	1.98E+01	1.55E+01	1.22E+01	9.49E+00	7.37E+00	5.81E+00	4.66E+00	8.82E-01
4	X/Q (SRC 4)	1.82E+00	2.01E+00	2.26E+00	2.61E+00	3.11E+00	3.92E+00	2.22E+01	1.63E+01	1.19E+01	8.86E+00	6.77E+00	5.30E+00	4.26E+00	3.50E+00	1.10E+00
5	X/Q (SRC 5)	3.43E+00	4.42E+00	6.06E+00	9.19E+00	1.68E+01	4.95E+01	5.90E+00	5.16E+00	4.46E+00	3.84E+00	3.32E+00	2.90E+00	2.54E+00	2.23E+00	1.73E+00
6	X/Q (SRC 6)	2.99E+00	3.56E+00	4.35E+00	5.54E+00	7.43E+00	1.10E+01	1.90E+01	1.39E+01	1.03E+01	7.83E+00	6.09E+00	4.80E+00	3.87E+00	3.16E+00	1.70E+00
7	X/Q (SRC 7)	1.08E+00	1.18E+00	1.31E+00	1.48E+00	1.70E+00	2.01E+00	1.58E+01	1.47E+01	1.24E+01	1.03E+01	8.51E+00	7.11E+00	5.89E+00	4.87E+00	7.42E-01
8	X/Q (SRC 8)	3.06E-01	3.41E-01	3.85E-01	4.43E-01	5.16E-01	6.15E-01	3.11E+00	3.35E+00	3.41E+00	3.22E+00	2.93E+00	2.54E+00	2.22E+00	1.92E+00	2.32E-01
9	X/Q (SRC 9)	2.81E+00	3.31E+00	3.99E+00	4.95E+00	6.40E+00	8.70E+00	3.12E+01	1.59E+01	1.01E+01	7.06E+00	5.24E+00	4.10E+00	3.29E+00	2.70E+00	1.69E+00
10	X/Q (SRC 10)	3.73E+00	4.55E+00	5.73E+00	7.59E+00	1.08E+01	1.75E+01	3.25E+01	1.51E+01	9.17E+00	6.26E+00	4.59E+00	3.53E+00	2.82E+00	2.31E+00	2.36E+00
11	X/Q (SRC 11)	1.76E+00	1.97E+00	2.23E+00	2.56E+00	3.00E+00	3.61E+00	4.70E+01	2.82E+01	1.85E+01	1.30E+01	9.52E+00	7.23E+00	5.64E+00	4.50E+00	1.10E+00
12	X/Q (SRC 12)	2.31E+00	2.69E+00	3.23E+00	4.02E+00	5.22E+00	7.27E+00	1.31E+01	9.75E+00	7.51E+00	5.92E+00	4.76E+00	3.87E+00	3.20E+00	2.69E+00	1.30E+00
13	X/Q (SRC 13)	2.77E+00	3.46E+00	4.57E+00	6.57E+00	1.09E+01	2.71E+01	6.49E+00	5.59E+00	4.78E+00	4.09E+00	3.52E+00	3.05E+00	2.65E+00	2.32E+00	1.42E+00
14	X/Q (SRC 14)	2.63E+00	3.17E+00	3.97E+00	5.26E+00	7.65E+00	1.37E+01	1.99E+01	1.25E+01	8.73E+00	6.50E+00	5.05E+00	4.04E+00	3.31E+00	2.76E+00	1.52E+00
15	X/Q (SRC 15)	6.63E+00	8.61E+00	1.17E+01	1.73E+01	2.79E+01	3.90E+01	3.35E+00	2.74E+00	2.28E+00	1.93E+00	1.66E+00	1.44E+00	1.26E+00	1.12E+00	4.02E+00
16	X/Q (SRC 16)	8.66E-01	9.64E-01	1.09E+00	1.26E+00	1.47E+00	1.71E+00	6.89E+00	6.95E+00	6.42E+00	5.77E+00	5.07E+00	4.54E+00	4.03E+00	3.57E+00	6.12E-01
17	X/Q (SRC 17)	3.07E+00	4.04E+00	5.41E+00	7.32E+00	1.01E+01	1.38E+01	5.41E+00	4.42E+00	3.65E+00	3.07E+00	2.61E+00	2.26E+00	1.97E+00	1.73E+00	1.49E+00
18	X/Q (SRC 18)	2.65E+00	3.21E+00	4.02E+00	5.35E+00	7.81E+00	1.41E+01	1.93E+01	1.22E+01	8.56E+00	6.39E+00	4.98E+00	3.98E+00	3.26E+00	2.72E+00	1.52E+00
19	X/Q (SRC 19)	2.70E+00	3.28E+00	4.14E+00	5.54E+00	8.25E+00	1.63E+01	2.07E+01	1.25E+01	8.74E+00	6.52E+00	5.07E+00	4.06E+00	3.33E+00	2.78E+00	1.54E+00
20	X/Q (SRC 20)	5.63E-01	6.08E-01	6.61E-01	7.21E-01	7.89E-01	8.68E-01	2.22E+00	2.49E+00	2.67E+00	2.70E+00	2.61E+00	2.44E+00	2.27E+00	2.10E+00	4.32E-01
21	X/Q (SRC 21)	2.84E+00	3.45E+00	4.45E+00	6.17E+00	9.03E+00	1.37E+01	7.41E+00	5.77E+00	4.60E+00	3.74E+00	3.10E+00	2.60E+00	2.22E+00	1.91E+00	1.50E+00
22	X/Q (SRC 22)	1.83E+00	2.03E+00	2.29E+00	2.64E+00	3.14E+00	3.94E+00	2.13E+01	1.55E+01	1.14E+01	8.52E+00	6.54E+00	5.11E+00	4.11E+00	3.37E+00	1.12E+00
23	X/Q (SRC 23)	3.33E+00	4.27E+00	5.78E+00	8.61E+00	1.51E+01	3.67E+01	5.80E+00	5.07E+00	4.39E+00	3.79E+00	3.27E+00	2.84E+00	2.49E+00	2.18E+00	1.70E+00
24	X/Q (SRC 24)	2.88E+00	3.42E+00	4.17E+00	5.30E+00	7.06E+00	1.03E+01	1.83E+01	1.34E+01	1.00E+01	7.61E+00	5.92E+00	4.67E+00	3.76E+00	3.08E+00	1.66E+00
25	X/Q (SRC 25)	1.10E+00	1.20E+00	1.33E+00	1.50E+00	1.73E+00	2.05E+00	1.55E+01	1.44E+01	1.23E+01	1.01E+01	8.33E+00	6.89E+00	5.69E+00	4.70E+00	7.55E-01
26	X/Q (SRC 26)	2.73E+00	3.21E+00	3.87E+00	4.79E+00	6.16E+00	8.31E+00	2.86E+01	1.54E+01	9.81E+00	6.92E+00	5.16E+00	4.05E+00	3.25E+00	2.67E+00	1.65E+00
27	X/Q (SRC 27)	3.59E+00	4.36E+00	5.48E+00	7.21E+00	1.01E+01	1.59E+01	2.89E+01	1.46E+01	9.07E+00	6.25E+00	4.61E+00	3.55E+00	2.83E+00	2.33E+00	2.26E+00
28	X/Q (SRC 28)	1.74E+00	1.95E+00	2.20E+00	2.53E+00	2.97E+00	3.58E+00	4.35E+01	2.69E+01	1.79E+01	1.25E+01	9.20E+00	6.98E+00	5.46E+00	4.36E+00	1.10E+00
29	X/Q (SRC 29)	2.28E+00	2.66E+00	3.18E+00	3.95E+00	5.10E+00	7.05E+00	1.27E+01	9.43E+00	7.27E+00	5.73E+00	4.61E+00	3.75E+00	3.11E+00	2.62E+00	1.31E+00
30	X/Q (SRC 30)	2.71E+00	3.37E+00	4.41E+00	6.24E+00	1.00E+01	2.16E+01	6.35E+00	5.47E+00	4.69E+00	4.02E+00	3.45E+00	2.98E+00	2.59E+00	2.26E+00	1.42E+00
31	X/Q (SRC 31)	3.09E+00	4.01E+00	5.32E+00	7.15E+00	9.85E+00	1.36E+01	5.23E+00	4.28E+00	3.54E+00	2.98E+00	2.53E+00	2.19E+00	1.91E+00	1.68E+00	1.51E+00
32	X/Q (SRC 32)	1.60E+01	1.32E+01	1.16E+01	1.05E+01	9.29E+00	8.25E+00	1.33E+00	1.15E+00	1.01E+00	8.86E-01	7.90E-01	7.07E-01	6.40E-01	5.83E-01	4.28E+01
33	X/Q (SRC 33)	2.29E+00	2.88E+00	3.90E+00	5.20E+00	7.00E+00	9.30E+00	7.15E+00	5.75E+00	4.64E+00	3.81E+00	3.18E+00	2.72E+00	2.36E+00	2.07E+00	1.24E+00
34	X/Q (SRC 34)	7.74E+00	1.04E+01	1.49E+01	2.37E+01	4.51E+01	1.14E+02	3.54E+00	2.86E+00	2.36E+00	1.99E+00	1.70E+00	1.47E+00	1.29E+00	1.14E+00	4.34E+00
35	X/Q (SRC 35)	1.09E+00	1.19E+00	1.32E+00	1.50E+00	1.74E+00	2.09E+00	1.50E+01	1.32E+01	1.09E+01	9.21E+00	7.82E+00	6.63E+00	5.55E+00	4.59E+00	7.47E-01
36	X/Q (SRC 36)	5.76E+00	7.41E+00	9.99E+00	1.45E+01	2.38E+01	4.99E+01	5.41E+00	4.15E+00	3.29E+00	2.67E+00	2.22E+00	1.88E+00	1.61E+00	1.40E+00	3.33E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
1	X/Q (SRC 1)	1.67E+00	1.93E+00	2.31E+00	2.88E+00	3.75E+00	5.05E+00	6.75E+00	9.14E+00	7.08E+00	5.70E+00	4.62E+00	3.81E+00	3.18E+00	2.70E+00	2.33E+00
2	X/Q (SRC 2)	7.79E-01	8.60E-01	9.72E-01	1.12E+00	1.31E+00	1.54E+00	1.76E+00	2.04E+00	5.89E+00	5.42E+00	4.85E+00	4.30E+00	3.84E+00	3.47E+00	3.14E+00
3	X/Q (SRC 3)	9.39E-01	1.01E+00	1.09E+00	1.20E+00	1.33E+00	1.53E+00	1.79E+00	2.16E+00	1.49E+01	1.32E+01	1.11E+01	9.22E+00	7.74E+00	6.46E+00	5.37E+00
4	X/Q (SRC 4)	1.18E+00	1.28E+00	1.41E+00	1.57E+00	1.78E+00	2.11E+00	2.58E+00	3.31E+00	1.53E+01	1.23E+01	9.92E+00	7.98E+00	6.38E+00	5.11E+00	4.18E+00
5	X/Q (SRC 5)	2.02E+00	2.40E+00	2.95E+00	3.76E+00	5.05E+00	7.76E+00	1.49E+01	5.56E+01	5.18E+00	4.55E+00	3.97E+00	3.47E+00	3.03E+00	2.67E+00	2.37E+00
6	X/Q (SRC 6)	1.90E+00	2.14E+00	2.46E+00	2.87E+00	3.40E+00	4.33E+00	5.82E+00	8.68E+00	1.50E+01	1.16E+01	9.08E+00	7.18E+00	5.75E+00	4.68E+00	3.86E+00
7	X/Q (SRC 7)	7.93E-01	8.52E-01	9.26E-01	1.02E+00	1.13E+00	1.29E+00	1.51E+00	1.82E+00	9.86E+00	9.82E+00	8.87E+00	7.68E+00	6.60E+00	5.74E+00	4.99E+00
8	X/Q (SRC 8)	2.50E-01	2.72E-01	3.00E-01	3.34E-01	3.74E-01	4.32E-01	5.04E-01	5.93E-01	2.51E+00	2.67E+00	2.69E+00	2.62E+00	2.43E+00	2.19E+00	1.97E+00
9	X/Q (SRC 9)	1.89E+00	2.13E+00	2.45E+00	2.85E+00	3.39E+00	4.17E+00	5.27E+00	7.06E+00	3.39E+01	1.81E+01	1.15E+01	8.00E+00	5.95E+00	4.60E+00	3.67E+00
10	X/Q (SRC 10)	2.73E+00	3.19E+00	3.82E+00	4.68E+00	5.91E+00	8.05E+00	1.21E+01	2.34E+01	4.81E+01	2.15E+01	1.23E+01	8.11E+00	5.77E+00	4.33E+00	3.39E+00
11	X/Q (SRC 11)	1.19E+00	1.28E+00	1.40E+00	1.55E+00	1.72E+00	1.97E+00	2.29E+00	2.76E+00	2.59E+01	1.97E+01	1.47E+01	1.11E+01	8.62E+00	6.80E+00	5.47E+00
12	X/Q (SRC 12)	1.44E+00	1.60E+00	1.82E+00	2.10E+00	2.47E+00	3.06E+00	3.92E+00	5.23E+00	1.11E+01	8.63E+00	6.86E+00	5.57E+00	4.58E+00	3.81E+00	3.21E+00
13	X/Q (SRC 13)	1.63E+00	1.89E+00	2.27E+00	2.79E+00	3.56E+00	5.05E+00	8.17E+00	1.95E+01	5.58E+00	4.86E+00	4.22E+00	3.67E+00	3.20E+00	2.81E+00	2.48E+00
14	X/Q (SRC 14)	1.71E+00	1.96E+00	2.30E+00	2.75E+00	3.38E+00	4.49E+00	6.51E+00	1.18E+01	1.87E+01	1.17E+01	8.35E+00	6.32E+00	4.97E+00	4.02E+00	3.33E+00
15	X/Q (SRC 15)	4.91E+00	6.14E+00	8.04E+00	1.10E+01	1.59E+01	2.74E+01	5.80E+01	1.98E+02	4.15E+00	3.30E+00	2.70E+00	2.25E+00	1.90E+00	1.63E+00	1.42E+00
16	X/Q (SRC 16)	6.60E-01	7.21E-01	7.94E-01	8.92E-01	1.01E+00	1.16E+00	1.32E+00	1.49E+00	4.88E+00	5.09E+00	4.93E+00	4.54E+00	4.14E+00	3.73E+00	3.35E+00
17	X/Q (SRC 17)	1.76E+00	2.15E+00	2.68E+00	3.34E+00	4.18E+00	5.29E+00	6.65E+00	8.38E+00	4.85E+00	4.12E+00	3.50E+00	2.97E+00	2.56E+00	2.22E+00	1.95E+00
18	X/Q (SRC 18)	1.72E+00	1.97E+00	2.31E+00	2.78E+00	3.42E+00	4.55E+00	6.59E+00	1.21E+01	1.82E+01	1.15E+01	8.20E+00	6.22E+00	4.90E+00	3.97E+00	3.29E+00
19	X/Q (SRC 19)	1.74E+00	2.00E+00	2.35E+00	2.83E+00	3.51E+00	4.69E+00	6.92E+00	1.40E+01	1.93E+01	1.18E+01	8.38E+00	6.35E+00	5.00E+00	4.05E+00	3.36E+00
20	X/Q (SRC 20)	4.59E-01	4.89E-01	5.26E-01	5.66E-01	6.09E-01	6.63E-01	7.20E-01	7.81E-01	1.74E+00	1.94E+00	2.10E+00	2.16E+00	2.14E+00	2.05E+00	1.93E+00
21	X/Q (SRC 21)	1.69E+00	1.95E+00	2.33E+00	2.90E+00	3.71E+00	4.94E+00	6.60E+00	8.92E+00	6.81E+00	5.49E+00	4.47E+00	3.70E+00	3.09E+00	2.62E+00	2.26E+00
22	X/Q (SRC 22)	1.20E+00	1.30E+00	1.43E+00	1.59E+00	1.80E+00	2.13E+00	2.61E+00	3.31E+00	1.50E+01	1.20E+01	9.58E+00	7.67E+00	6.13E+00	4.93E+00	4.05E+00
23	X/Q (SRC 23)	1.98E+00	2.35E+00	2.88E+00	3.65E+00	4.84E+00	7.32E+00	1.34E+01	3.90E+01	5.09E+00	4.47E+00	3.91E+00	3.42E+00	2.99E+00	2.63E+00	2.33E+00
24	X/Q (SRC 24)	1.86E+00	2.09E+00	2.41E+00	2.81E+00	3.33E+00	4.22E+00	5.64E+00	8.25E+00	1.45E+01	1.13E+01	8.82E+00	6.98E+00	5.59E+00	4.53E+00	3.75E+00
25	X/Q (SRC 25)	8.04E-01	8.63E-01	9.38E-01	1.03E+00	1.15E+00	1.32E+00	1.53E+00	1.83E+00	9.74E+00	9.67E+00	8.77E+00	7.62E+00	6.55E+00	5.64E+00	4.87E+00
26	X/Q (SRC 26)	1.84E+00	2.08E+00	2.39E+00	2.79E+00	3.30E+00	4.06E+00	5.12E+00	6.80E+00	3.15E+01	1.73E+01	1.11E+01	7.75E+00	5.78E+00	4.48E+00	3.58E+00
27	X/Q (SRC 27)	2.60E+00	3.04E+00	3.63E+00	4.42E+00	5.54E+00	7.52E+00	1.11E+01	2.01E+01	4.30E+01	2.04E+01	1.20E+01	7.93E+00	5.67E+00	4.27E+00	3.35E+00
28	X/Q (SRC 28)	1.19E+00	1.29E+00	1.41E+00	1.56E+00	1.73E+00	1.99E+00	2.32E+00	2.78E+00	2.50E+01	1.91E+01	1.43E+01	1.08E+01	8.35E+00	6.57E+00	5.28E+00
29	X/Q (SRC 29)	1.44E+00	1.60E+00	1.83E+00	2.11E+00	2.48E+00	3.06E+00	3.89E+00	5.15E+00	1.08E+01	8.37E+00	6.65E+00	5.40E+00	4.43E+00	3.68E+00	3.11E+00
30	X/Q (SRC 30)	1.62E+00	1.88E+00	2.24E+00	2.75E+00	3.48E+00	4.87E+00	7.65E+00	1.57E+01	5.46E+00	4.76E+00	4.14E+00	3.60E+00	3.14E+00	2.75E+00	2.43E+00
31	X/Q (SRC 31)	1.79E+00	2.17E+00	2.67E+00	3.31E+00	4.11E+00	5.19E+00	6.60E+00	8.40E+00	4.70E+00	3.99E+00	3.39E+00	2.89E+00	2.50E+00	2.17E+00	1.90E+00
32	X/Q (SRC 32)	5.24E+01	3.75E+01	3.39E+01	3.16E+01	2.95E+01	3.00E+01	2.84E+01	2.29E+01	1.58E+00	1.33E+00	1.14E+00	9.96E-01	8.77E-01	7.79E-01	7.01E-01
33	X/Q (SRC 33)	1.42E+00	1.66E+00	2.05E+00	2.63E+00	3.23E+00	4.02E+00	5.15E+00	6.29E+00	5.97E+00	5.13E+00	4.37E+00	3.68E+00	3.11E+00	2.65E+00	2.28E+00
34	X/Q (SRC 34)	5.31E+00	6.65E+00	8.71E+00	1.19E+01	1.73E+01	2.96E+01	6.44E+01	3.14E+02	4.50E+00	3.53E+00	2.85E+00	2.35E+00	1.98E+00	1.69E+00	1.46E+00
35	X/Q (SRC 35)	7.99E-01	8.58E-01	9.29E-01	1.02E+00	1.14E+00	1.31E+00	1.56E+00	1.95E+00	9.68E+00	9.18E+00	8.08E+00	6.87E+00	6.03E+00	5.35E+00	4.70E+00
36	X/Q (SRC 36)	3.96E+00	4.80E+00	6.00E+00	7.76E+00	1.05E+01	1.57E+01	2.72E+01	6.98E+01	7.00E+00	5.20E+00	4.02E+00	3.20E+00	2.62E+00	2.18E+00	1.85E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375
1	X/Q (SRC 1)	2.03E+00	1.26E+00	1.43E+00	1.68E+00	2.05E+00	2.56E+00	3.16E+00	3.92E+00	4.98E+00	6.25E+00	7.87E+00	9.31E+00	1.15E+01	1.22E+01	1.12E+01
2	X/Q (SRC 2)	2.83E+00	6.54E-01	7.17E-01	8.04E-01	9.20E-01	1.05E+00	1.19E+00	1.33E+00	1.51E+00	1.74E+00	1.97E+00	2.21E+00	2.53E+00	2.85E+00	3.16E+00
3	X/Q (SRC 3)	4.45E+00	7.51E-01	8.01E-01	8.65E-01	9.45E-01	1.04E+00	1.17E+00	1.35E+00	1.61E+00	1.96E+00	2.38E+00	2.84E+00	3.49E+00	4.25E+00	5.19E+00
4	X/Q (SRC 4)	3.47E+00	9.11E-01	9.80E-01	1.07E+00	1.19E+00	1.34E+00	1.54E+00	1.85E+00	2.30E+00	2.91E+00	3.57E+00	4.53E+00	5.69E+00	7.25E+00	8.86E+00
5	X/Q (SRC 5)	2.11E+00	1.43E+00	1.64E+00	1.92E+00	2.31E+00	2.86E+00	3.74E+00	5.39E+00	8.99E+00	2.01E+01	3.94E+01	2.36E+01	1.63E+01	1.18E+01	9.15E+00
6	X/Q (SRC 6)	3.23E+00	1.37E+00	1.50E+00	1.67E+00	1.89E+00	2.17E+00	2.57E+00	3.20E+00	4.25E+00	6.21E+00	1.01E+01	2.02E+01	4.52E+01	3.47E+01	2.51E+01
7	X/Q (SRC 7)	4.33E+00	6.53E-01	6.99E-01	7.54E-01	8.22E-01	9.07E-01	1.02E+00	1.18E+00	1.39E+00	1.64E+00	1.91E+00	2.18E+00	2.62E+00	3.07E+00	3.65E+00
8	X/Q (SRC 8)	1.76E+00	2.28E-01	2.45E-01	2.67E-01	2.95E-01	3.27E-01	3.67E-01	4.20E-01	4.86E-01	5.70E-01	6.71E-01	7.79E-01	9.33E-01	1.09E+00	1.26E+00
9	X/Q (SRC 9)	3.00E+00	1.42E+00	1.57E+00	1.75E+00	1.98E+00	2.27E+00	2.65E+00	3.18E+00	3.91E+00	5.00E+00	6.85E+00	9.84E+00	1.72E+01	2.87E+01	3.84E+01
10	X/Q (SRC 10)	2.73E+00	2.09E+00	2.36E+00	2.70E+00	3.14E+00	3.70E+00	4.50E+00	5.76E+00	8.08E+00	1.39E+01	3.54E+01	5.61E+01	7.22E+01	7.84E+01	8.32E+01
11	X/Q (SRC 11)	4.46E+00	9.05E-01	9.67E-01	1.04E+00	1.14E+00	1.25E+00	1.40E+00	1.61E+00	1.90E+00	2.30E+00	2.85E+00	3.55E+00	4.67E+00	6.18E+00	8.36E+00
12	X/Q (SRC 12)	2.73E+00	1.07E+00	1.17E+00	1.31E+00	1.50E+00	1.73E+00	2.06E+00	2.53E+00	3.17E+00	4.09E+00	5.39E+00	7.21E+00	9.76E+00	1.26E+01	1.44E+01
13	X/Q (SRC 13)	2.21E+00	1.19E+00	1.35E+00	1.56E+00	1.85E+00	2.25E+00	2.83E+00	3.78E+00	5.49E+00	9.71E+00	1.67E+01	1.41E+01	1.24E+01	1.04E+01	8.65E+00
14	X/Q (SRC 14)	2.80E+00	1.30E+00	1.45E+00	1.65E+00	1.90E+00	2.24E+00	2.71E+00	3.44E+00	4.68E+00	7.24E+00	1.32E+01	1.68E+01	2.02E+01	2.18E+01	2.31E+01
15	X/Q (SRC 15)	1.25E+00	3.72E+00	4.44E+00	5.45E+00	6.91E+00	9.03E+00	1.25E+01	1.95E+01	3.81E+01	1.15E+02	3.44E+02	1.78E+02	7.31E+01	3.54E+01	2.03E+01
16	X/Q (SRC 16)	3.02E+00	5.64E-01	6.13E-01	6.72E-01	7.45E-01	8.37E-01	9.42E-01	1.05E+00	1.17E+00	1.29E+00	1.45E+00	1.61E+00	1.82E+00	2.06E+00	2.35E+00
17	X/Q (SRC 17)	1.72E+00	1.34E+00	1.60E+00	1.93E+00	2.28E+00	2.71E+00	3.29E+00	3.92E+00	4.75E+00	5.51E+00	6.46E+00	7.38E+00	8.06E+00	7.66E+00	6.94E+00
18	X/Q (SRC 18)	2.77E+00	1.30E+00	1.46E+00	1.66E+00	1.92E+00	2.26E+00	2.74E+00	3.48E+00	4.72E+00	7.29E+00	1.30E+01	1.66E+01	1.99E+01	2.16E+01	2.29E+01
19	X/Q (SRC 19)	2.83E+00	1.30E+00	1.46E+00	1.66E+00	1.93E+00	2.27E+00	2.76E+00	3.52E+00	4.82E+00	7.67E+00	1.48E+01	1.84E+01	2.21E+01	2.38E+01	2.52E+01
20	X/Q (SRC 20)	1.81E+00	4.08E-01	4.32E-01	4.61E-01	4.94E-01	5.28E-01	5.66E-01	6.09E-01	6.54E-01	7.04E-01	7.58E-01	8.18E-01	8.86E-01	9.59E-01	1.04E+00
21	X/Q (SRC 21)	1.96E+00	1.28E+00	1.45E+00	1.71E+00	2.06E+00	2.53E+00	3.11E+00	3.87E+00	4.86E+00	6.20E+00	7.87E+00	9.41E+00	1.14E+01	1.20E+01	1.11E+01
22	X/Q (SRC 22)	3.37E+00	9.25E-01	9.92E-01	1.08E+00	1.20E+00	1.35E+00	1.56E+00	1.87E+00	2.30E+00	2.86E+00	3.53E+00	4.45E+00	5.59E+00	7.20E+00	8.90E+00
23	X/Q (SRC 23)	2.07E+00	1.43E+00	1.64E+00	1.91E+00	2.29E+00	2.83E+00	3.68E+00	5.23E+00	8.50E+00	1.75E+01	3.30E+01	2.21E+01	1.57E+01	1.15E+01	8.93E+00
24	X/Q (SRC 24)	3.13E+00	1.36E+00	1.50E+00	1.66E+00	1.89E+00	2.16E+00	2.56E+00	3.19E+00	4.21E+00	6.06E+00	9.62E+00	1.83E+01	3.77E+01	3.23E+01	2.41E+01
25	X/Q (SRC 25)	4.20E+00	6.60E-01	7.07E-01	7.64E-01	8.36E-01	9.25E-01	1.04E+00	1.20E+00	1.40E+00	1.63E+00	1.90E+00	2.17E+00	2.58E+00	3.03E+00	3.65E+00
26	X/Q (SRC 26)	2.93E+00	1.40E+00	1.55E+00	1.74E+00	1.97E+00	2.26E+00	2.64E+00	3.17E+00	3.89E+00	4.94E+00	6.73E+00	9.44E+00	1.62E+01	2.65E+01	3.53E+01
27	X/Q (SRC 27)	2.71E+00	2.02E+00	2.28E+00	2.61E+00	3.05E+00	3.60E+00	4.37E+00	5.60E+00	7.82E+00	1.29E+01	2.90E+01	4.69E+01	6.06E+01	6.65E+01	7.09E+01
28	X/Q (SRC 28)	4.32E+00	9.15E-01	9.78E-01	1.06E+00	1.15E+00	1.27E+00	1.42E+00	1.64E+00	1.92E+00	2.31E+00	2.84E+00	3.52E+00	4.59E+00	6.06E+00	8.24E+00
29	X/Q (SRC 29)	2.65E+00	1.09E+00	1.19E+00	1.33E+00	1.51E+00	1.75E+00	2.07E+00	2.52E+00	3.14E+00	4.03E+00	5.28E+00	7.09E+00	9.64E+00	1.24E+01	1.41E+01
30	X/Q (SRC 30)	2.16E+00	1.20E+00	1.36E+00	1.57E+00	1.85E+00	2.23E+00	2.78E+00	3.69E+00	5.28E+00	8.82E+00	1.45E+01	1.35E+01	1.20E+01	1.02E+01	8.47E+00
31	X/Q (SRC 31)	1.68E+00	1.36E+00	1.61E+00	1.91E+00	2.27E+00	2.69E+00	3.23E+00	3.89E+00	4.74E+00	5.57E+00	6.55E+00	7.30E+00	7.93E+00	7.56E+00	6.88E+00
32	X/Q (SRC 32)	6.36E-01	3.17E+01	6.76E+01	7.21E+01	7.26E+01	6.94E+01	6.75E+01	6.81E+01	6.80E+01	6.37E+01	5.25E+01	5.04E+01	3.22E+01	1.13E+01	6.06E+00
33	X/Q (SRC 33)	2.00E+00	1.10E+00	1.27E+00	1.55E+00	1.91E+00	2.23E+00	2.61E+00	3.28E+00	3.77E+00	4.48E+00	5.18E+00	5.79E+00	7.13E+00	7.99E+00	7.83E+00
34	X/Q (SRC 34)	1.28E+00	3.51E+00	4.09E+00	4.84E+00	5.88E+00	7.36E+00	9.92E+00	1.56E+01	3.20E+01	8.55E+01	2.02E+02	1.42E+02	7.34E+01	3.88E+01	2.28E+01
35	X/Q (SRC 35)	4.12E+00	6.54E-01	6.97E-01	7.52E-01	8.25E-01	9.16E-01	1.03E+00	1.22E+00	1.49E+00	1.74E+00	1.97E+00	2.31E+00	2.84E+00	3.15E+00	3.77E+00
36	X/Q (SRC 36)	1.59E+00	2.83E+00	3.26E+00	3.83E+00	4.58E+00	5.60E+00	7.16E+00	9.98E+00	1.61E+01	3.37E+01	9.04E+01	1.24E+02	1.33E+02	9.51E+01	5.07E+01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390
1	X/Q (SRC 1)	9.65E+00	8.15E+00	6.98E+00	5.98E+00	5.09E+00	4.31E+00	3.64E+00	3.09E+00	2.64E+00	2.28E+00	2.00E+00	1.12E+00	1.29E+00	1.54E+00	1.87E+00
2	X/Q (SRC 2)	3.56E+00	4.06E+00	4.45E+00	4.50E+00	4.26E+00	3.92E+00	3.54E+00	3.18E+00	2.89E+00	2.66E+00	2.45E+00	6.13E-01	6.82E-01	7.71E-01	8.71E-01
3	X/Q (SRC 3)	6.26E+00	7.35E+00	8.89E+00	9.70E+00	9.18E+00	8.14E+00	6.99E+00	6.06E+00	5.29E+00	4.63E+00	4.02E+00	6.64E-01	7.11E-01	7.70E-01	8.45E-01
4	X/Q (SRC 4)	1.07E+01	1.24E+01	1.22E+01	1.07E+01	9.05E+00	7.68E+00	6.57E+00	5.59E+00	4.71E+00	3.98E+00	3.36E+00	7.92E-01	8.58E-01	9.42E-01	1.05E+00
5	X/Q (SRC 5)	7.34E+00	6.10E+00	5.22E+00	4.55E+00	4.02E+00	3.57E+00	3.12E+00	2.78E+00	2.47E+00	2.21E+00	1.99E+00	1.18E+00	1.35E+00	1.56E+00	1.86E+00
6	X/Q (SRC 6)	2.02E+01	1.68E+01	1.41E+01	1.16E+01	9.52E+00	7.77E+00	6.36E+00	5.25E+00	4.37E+00	3.70E+00	3.15E+00	1.09E+00	1.19E+00	1.32E+00	1.50E+00
7	X/Q (SRC 7)	4.32E+00	4.94E+00	5.75E+00	6.52E+00	6.82E+00	6.51E+00	5.77E+00	5.18E+00	4.59E+00	4.09E+00	3.67E+00	5.89E-01	6.31E-01	6.83E-01	7.50E-01
8	X/Q (SRC 8)	1.41E+00	1.59E+00	1.82E+00	2.01E+00	2.13E+00	2.17E+00	2.12E+00	2.03E+00	1.86E+00	1.73E+00	1.56E+00	2.24E-01	2.41E-01	2.63E-01	2.90E-01
9	X/Q (SRC 9)	4.35E+01	4.29E+01	3.59E+01	2.37E+01	1.56E+01	1.10E+01	7.91E+00	6.09E+00	4.81E+00	3.87E+00	3.18E+00	1.16E+00	1.27E+00	1.41E+00	1.58E+00
10	X/Q (SRC 10)	8.07E+01	7.63E+01	6.72E+01	3.75E+01	2.12E+01	1.34E+01	9.01E+00	6.57E+00	4.96E+00	3.89E+00	3.13E+00	1.66E+00	1.83E+00	2.03E+00	2.30E+00
11	X/Q (SRC 11)	1.11E+01	1.39E+01	1.55E+01	1.50E+01	1.30E+01	1.08E+01	8.76E+00	7.27E+00	6.00E+00	4.99E+00	4.18E+00	7.64E-01	8.18E-01	8.85E-01	9.70E-01
12	X/Q (SRC 12)	1.43E+01	1.26E+01	1.06E+01	8.76E+00	7.21E+00	5.97E+00	4.98E+00	4.21E+00	3.58E+00	3.08E+00	2.66E+00	9.17E-01	1.01E+00	1.14E+00	1.31E+00
13	X/Q (SRC 13)	7.24E+00	6.19E+00	5.41E+00	4.77E+00	4.22E+00	3.72E+00	3.28E+00	2.90E+00	2.57E+00	2.30E+00	2.07E+00	1.03E+00	1.16E+00	1.34E+00	1.58E+00
14	X/Q (SRC 14)	2.26E+01	2.16E+01	1.97E+01	1.40E+01	9.92E+00	7.47E+00	5.77E+00	4.70E+00	3.87E+00	3.25E+00	2.76E+00	1.10E+00	1.22E+00	1.37E+00	1.57E+00
15	X/Q (SRC 15)	1.29E+01	8.91E+00	6.52E+00	4.94E+00	3.88E+00	3.14E+00	2.57E+00	2.17E+00	1.84E+00	1.59E+00	1.39E+00	2.86E+00	3.30E+00	3.87E+00	4.70E+00
16	X/Q (SRC 16)	2.65E+00	2.94E+00	3.25E+00	3.59E+00	3.81E+00	3.81E+00	3.57E+00	3.36E+00	3.11E+00	2.80E+00	2.57E+00	5.29E-01	5.78E-01	6.37E-01	7.05E-01
17	X/Q (SRC 17)	6.14E+00	5.35E+00	4.67E+00	4.10E+00	3.61E+00	3.19E+00	2.77E+00	2.45E+00	2.16E+00	1.90E+00	1.69E+00	1.25E+00	1.46E+00	1.67E+00	1.90E+00
18	X/Q (SRC 18)	2.25E+01	2.16E+01	1.97E+01	1.38E+01	9.77E+00	7.36E+00	5.69E+00	4.64E+00	3.82E+00	3.21E+00	2.73E+00	1.10E+00	1.23E+00	1.38E+00	1.58E+00
19	X/Q (SRC 19)	2.48E+01	2.37E+01	2.13E+01	1.43E+01	9.99E+00	7.51E+00	5.81E+00	4.74E+00	3.91E+00	3.28E+00	2.79E+00	1.09E+00	1.22E+00	1.37E+00	1.57E+00
20	X/Q (SRC 20)	1.12E+00	1.20E+00	1.29E+00	1.41E+00	1.56E+00	1.69E+00	1.78E+00	1.78E+00	1.74E+00	1.67E+00	1.58E+00	3.87E-01	4.10E-01	4.36E-01	4.65E-01
21	X/Q (SRC 21)	9.53E+00	8.05E+00	6.85E+00	5.82E+00	4.93E+00	4.16E+00	3.53E+00	3.00E+00	2.57E+00	2.23E+00	1.95E+00	1.14E+00	1.32E+00	1.55E+00	1.85E+00
22	X/Q (SRC 22)	1.07E+01	1.21E+01	1.19E+01	1.06E+01	8.97E+00	7.56E+00	6.41E+00	5.41E+00	4.53E+00	3.84E+00	3.25E+00	8.00E-01	8.67E-01	9.55E-01	1.07E+00
23	X/Q (SRC 23)	7.17E+00	5.97E+00	5.12E+00	4.47E+00	3.95E+00	3.51E+00	3.07E+00	2.74E+00	2.43E+00	2.17E+00	1.95E+00	1.20E+00	1.36E+00	1.57E+00	1.87E+00
24	X/Q (SRC 24)	1.95E+01	1.63E+01	1.37E+01	1.13E+01	9.27E+00	7.57E+00	6.21E+00	5.12E+00	4.25E+00	3.59E+00	3.05E+00	1.10E+00	1.21E+00	1.34E+00	1.52E+00
25	X/Q (SRC 25)	4.35E+00	5.01E+00	5.81E+00	6.48E+00	6.72E+00	6.43E+00	5.73E+00	5.16E+00	4.57E+00	4.05E+00	3.60E+00	5.97E-01	6.42E-01	6.97E-01	7.68E-01
26	X/Q (SRC 26)	3.98E+01	3.92E+01	3.33E+01	2.26E+01	1.50E+01	1.06E+01	7.63E+00	5.89E+00	4.65E+00	3.74E+00	3.09E+00	1.17E+00	1.28E+00	1.42E+00	1.59E+00
27	X/Q (SRC 27)	6.86E+01	6.49E+01	5.79E+01	3.49E+01	2.02E+01	1.28E+01	8.68E+00	6.36E+00	4.80E+00	3.78E+00	3.05E+00	1.65E+00	1.82E+00	2.03E+00	2.31E+00
28	X/Q (SRC 28)	1.09E+01	1.37E+01	1.53E+01	1.47E+01	1.28E+01	1.06E+01	8.57E+00	7.10E+00	5.83E+00	4.85E+00	4.06E+00	7.76E-01	8.31E-01	9.00E-01	9.87E-01
29	X/Q (SRC 29)	1.39E+01	1.23E+01	1.04E+01	8.57E+00	7.05E+00	5.82E+00	4.86E+00	4.10E+00	3.47E+00	2.99E+00	2.58E+00	9.33E-01	1.03E+00	1.16E+00	1.33E+00
30	X/Q (SRC 30)	7.08E+00	6.06E+00	5.31E+00	4.68E+00	4.14E+00	3.65E+00	3.23E+00	2.85E+00	2.52E+00	2.26E+00	2.02E+00	1.04E+00	1.17E+00	1.35E+00	1.58E+00
31	X/Q (SRC 31)	6.10E+00	5.32E+00	4.61E+00	4.01E+00	3.52E+00	3.10E+00	2.69E+00	2.38E+00	2.10E+00	1.86E+00	1.65E+00	1.25E+00	1.45E+00	1.66E+00	1.90E+00
32	X/Q (SRC 32)	3.98E+00	2.91E+00	2.27E+00	1.84E+00	1.52E+00	1.29E+00	1.12E+00	9.74E-01	8.58E-01	7.69E-01	6.93E-01	1.33E+01	2.15E+01	2.69E+01	2.92E+01
33	X/Q (SRC 33)	7.06E+00	6.09E+00	5.31E+00	4.72E+00	4.22E+00	3.78E+00	3.32E+00	2.95E+00	2.58E+00	2.24E+00	1.96E+00	1.02E+00	1.23E+00	1.45E+00	1.63E+00
34	X/Q (SRC 34)	1.47E+01	1.02E+01	7.43E+00	5.60E+00	4.36E+00	3.49E+00	2.84E+00	2.37E+00	2.00E+00	1.71E+00	1.48E+00	2.40E+00	2.72E+00	3.19E+00	3.89E+00
35	X/Q (SRC 35)	4.28E+00	4.86E+00	5.79E+00	6.53E+00	6.60E+00	6.10E+00	5.32E+00	4.70E+00	4.24E+00	3.85E+00	3.48E+00	5.84E-01	6.31E-01	6.88E-01	7.55E-01
36	X/Q (SRC 36)	2.82E+01	1.73E+01	1.16E+01	8.19E+00	6.10E+00	4.71E+00	3.71E+00	3.04E+00	2.51E+00	2.12E+00	1.81E+00	2.11E+00	2.37E+00	2.70E+00	3.16E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405
1	X/Q (SRC 1)	2.19E+00	2.57E+00	3.12E+00	3.74E+00	4.52E+00	5.34E+00	6.18E+00	7.36E+00	8.09E+00	7.92E+00	7.17E+00	6.28E+00	5.47E+00	4.83E+00	4.28E+00
2	X/Q (SRC 2)	9.63E-01	1.05E+00	1.16E+00	1.32E+00	1.49E+00	1.63E+00	1.81E+00	2.04E+00	2.23E+00	2.43E+00	2.71E+00	3.07E+00	3.39E+00	3.51E+00	3.42E+00
3	X/Q (SRC 3)	9.36E-01	1.06E+00	1.25E+00	1.49E+00	1.74E+00	2.00E+00	2.35E+00	2.79E+00	3.23E+00	3.84E+00	4.43E+00	5.04E+00	5.94E+00	6.65E+00	6.63E+00
4	X/Q (SRC 4)	1.19E+00	1.40E+00	1.69E+00	2.05E+00	2.41E+00	2.89E+00	3.51E+00	4.16E+00	5.07E+00	5.87E+00	6.93E+00	8.07E+00	8.36E+00	7.74E+00	6.86E+00
5	X/Q (SRC 5)	2.28E+00	2.93E+00	3.95E+00	5.65E+00	8.41E+00	1.16E+01	1.21E+01	1.05E+01	8.46E+00	7.07E+00	6.03E+00	5.17E+00	4.51E+00	3.99E+00	3.57E+00
6	X/Q (SRC 6)	1.72E+00	2.04E+00	2.57E+00	3.44E+00	4.73E+00	6.72E+00	1.00E+01	1.43E+01	1.62E+01	1.49E+01	1.33E+01	1.18E+01	1.03E+01	8.91E+00	7.64E+00
7	X/Q (SRC 7)	8.37E-01	9.55E-01	1.11E+00	1.27E+00	1.43E+00	1.61E+00	1.87E+00	2.15E+00	2.40E+00	2.78E+00	3.20E+00	3.58E+00	4.06E+00	4.65E+00	5.01E+00
8	X/Q (SRC 8)	3.19E-01	3.57E-01	4.05E-01	4.69E-01	5.40E-01	6.22E-01	7.25E-01	8.36E-01	9.37E-01	1.06E+00	1.20E+00	1.33E+00	1.48E+00	1.61E+00	1.70E+00
9	X/Q (SRC 9)	1.80E+00	2.09E+00	2.48E+00	3.02E+00	3.80E+00	4.96E+00	6.81E+00	9.58E+00	1.29E+01	1.67E+01	1.95E+01	2.02E+01	1.84E+01	1.52E+01	1.18E+01
10	X/Q (SRC 10)	2.65E+00	3.15E+00	4.01E+00	5.56E+00	8.27E+00	1.32E+01	2.03E+01	2.63E+01	2.92E+01	3.19E+01	3.36E+01	3.27E+01	2.92E+01	2.29E+01	1.65E+01
11	X/Q (SRC 11)	1.08E+00	1.22E+00	1.41E+00	1.67E+00	1.99E+00	2.40E+00	2.95E+00	3.63E+00	4.41E+00	5.50E+00	6.86E+00	8.26E+00	9.33E+00	9.62E+00	9.01E+00
12	X/Q (SRC 12)	1.52E+00	1.79E+00	2.15E+00	2.64E+00	3.23E+00	4.00E+00	4.96E+00	6.10E+00	7.40E+00	8.55E+00	9.01E+00	8.59E+00	7.70E+00	6.72E+00	5.80E+00
13	X/Q (SRC 13)	1.89E+00	2.30E+00	2.90E+00	3.82E+00	5.19E+00	6.81E+00	7.58E+00	7.57E+00	7.07E+00	6.34E+00	5.62E+00	4.99E+00	4.48E+00	4.03E+00	3.63E+00
14	X/Q (SRC 14)	1.82E+00	2.16E+00	2.67E+00	3.45E+00	4.62E+00	6.36E+00	8.44E+00	1.01E+01	1.09E+01	1.17E+01	1.23E+01	1.20E+01	1.11E+01	9.52E+00	7.75E+00
15	X/Q (SRC 15)	5.90E+00	8.08E+00	1.28E+01	2.31E+01	4.39E+01	7.52E+01	7.64E+01	5.06E+01	3.09E+01	2.00E+01	1.36E+01	9.64E+00	7.14E+00	5.47E+00	4.32E+00
16	X/Q (SRC 16)	7.84E-01	8.62E-01	9.42E-01	1.02E+00	1.13E+00	1.25E+00	1.38E+00	1.52E+00	1.67E+00	1.86E+00	2.07E+00	2.27E+00	2.50E+00	2.78E+00	2.99E+00
17	X/Q (SRC 17)	2.25E+00	2.61E+00	3.01E+00	3.49E+00	3.90E+00	4.41E+00	5.19E+00	5.73E+00	5.61E+00	5.24E+00	4.79E+00	4.29E+00	3.79E+00	3.42E+00	3.10E+00
18	X/Q (SRC 18)	1.84E+00	2.18E+00	2.69E+00	3.48E+00	4.64E+00	6.35E+00	8.38E+00	1.00E+01	1.08E+01	1.16E+01	1.22E+01	1.19E+01	1.11E+01	9.42E+00	7.66E+00
19	X/Q (SRC 19)	1.83E+00	2.18E+00	2.70E+00	3.50E+00	4.70E+00	6.47E+00	8.58E+00	1.03E+01	1.11E+01	1.19E+01	1.24E+01	1.22E+01	1.12E+01	9.57E+00	7.78E+00
20	X/Q (SRC 20)	4.93E-01	5.24E-01	5.58E-01	5.96E-01	6.37E-01	6.81E-01	7.28E-01	7.79E-01	8.38E-01	9.02E-01	9.63E-01	1.02E+00	1.08E+00	1.17E+00	1.28E+00
21	X/Q (SRC 21)	2.17E+00	2.55E+00	3.05E+00	3.70E+00	4.51E+00	5.40E+00	6.28E+00	7.36E+00	7.97E+00	7.81E+00	7.10E+00	6.24E+00	5.44E+00	4.77E+00	4.20E+00
22	X/Q (SRC 22)	1.22E+00	1.41E+00	1.68E+00	2.03E+00	2.40E+00	2.86E+00	3.43E+00	4.14E+00	5.08E+00	5.96E+00	6.98E+00	7.97E+00	8.20E+00	7.64E+00	6.79E+00
23	X/Q (SRC 23)	2.27E+00	2.88E+00	3.85E+00	5.48E+00	8.14E+00	1.12E+01	1.18E+01	1.02E+01	8.28E+00	6.93E+00	5.92E+00	5.08E+00	4.43E+00	3.92E+00	3.51E+00
24	X/Q (SRC 24)	1.74E+00	2.07E+00	2.58E+00	3.41E+00	4.63E+00	6.52E+00	9.67E+00	1.38E+01	1.57E+01	1.46E+01	1.30E+01	1.15E+01	1.01E+01	8.73E+00	7.47E+00
25	X/Q (SRC 25)	8.55E-01	9.67E-01	1.11E+00	1.26E+00	1.42E+00	1.61E+00	1.84E+00	2.12E+00	2.39E+00	2.79E+00	3.24E+00	3.65E+00	4.12E+00	4.65E+00	4.95E+00
26	X/Q (SRC 26)	1.82E+00	2.10E+00	2.49E+00	3.02E+00	3.77E+00	4.90E+00	6.68E+00	9.39E+00	1.25E+01	1.62E+01	1.89E+01	1.96E+01	1.78E+01	1.48E+01	1.15E+01
27	X/Q (SRC 27)	2.66E+00	3.16E+00	4.00E+00	5.49E+00	8.04E+00	1.26E+01	1.93E+01	2.51E+01	2.79E+01	3.04E+01	3.21E+01	3.12E+01	2.80E+01	2.20E+01	1.60E+01
28	X/Q (SRC 28)	1.09E+00	1.24E+00	1.43E+00	1.68E+00	1.99E+00	2.39E+00	2.91E+00	3.58E+00	4.36E+00	5.48E+00	6.88E+00	8.26E+00	9.27E+00	9.49E+00	8.89E+00
29	X/Q (SRC 29)	1.53E+00	1.79E+00	2.14E+00	2.61E+00	3.19E+00	3.95E+00	4.93E+00	6.11E+00	7.41E+00	8.50E+00	8.88E+00	8.46E+00	7.60E+00	6.62E+00	5.71E+00
30	X/Q (SRC 30)	1.87E+00	2.27E+00	2.84E+00	3.74E+00	5.08E+00	6.68E+00	7.46E+00	7.44E+00	6.97E+00	6.26E+00	5.54E+00	4.92E+00	4.41E+00	3.97E+00	3.57E+00
31	X/Q (SRC 31)	2.21E+00	2.57E+00	3.01E+00	3.51E+00	3.96E+00	4.49E+00	5.20E+00	5.66E+00	5.51E+00	5.19E+00	4.77E+00	4.28E+00	3.79E+00	3.39E+00	3.06E+00
32	X/Q (SRC 32)	2.88E+01	2.81E+01	2.79E+01	2.81E+01	2.62E+01	2.32E+01	2.00E+01	1.56E+01	1.01E+01	6.46E+00	4.45E+00	3.28E+00	2.55E+00	2.05E+00	1.70E+00
33	X/Q (SRC 33)	1.84E+00	2.24E+00	2.60E+00	2.86E+00	3.31E+00	3.68E+00	4.16E+00	4.93E+00	5.53E+00	5.70E+00	5.38E+00	4.86E+00	4.22E+00	3.77E+00	3.47E+00
34	X/Q (SRC 34)	4.99E+00	7.05E+00	1.13E+01	1.91E+01	3.24E+01	4.99E+01	5.61E+01	4.18E+01	2.88E+01	2.03E+01	1.43E+01	1.03E+01	7.69E+00	5.96E+00	4.76E+00
35	X/Q (SRC 35)	8.46E-01	9.92E-01	1.18E+00	1.33E+00	1.46E+00	1.67E+00	2.03E+00	2.23E+00	2.45E+00	2.82E+00	3.16E+00	3.51E+00	4.09E+00	4.69E+00	4.94E+00
36	X/Q (SRC 36)	3.83E+00	4.93E+00	6.99E+00	1.09E+01	1.77E+01	2.92E+01	4.26E+01	4.80E+01	4.17E+01	3.15E+01	2.25E+01	1.58E+01	1.13E+01	8.36E+00	6.38E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
1	X/Q (SRC 1)	3.78E+00	3.33E+00	2.91E+00	2.54E+00	2.22E+00	1.95E+00	1.04E+00	1.21E+00	1.42E+00	1.62E+00	1.84E+00	2.17E+00	2.52E+00	2.88E+00	3.39E+00
2	X/Q (SRC 2)	3.21E+00	2.96E+00	2.69E+00	2.45E+00	2.26E+00	2.11E+00	5.90E-01	6.60E-01	7.31E-01	7.99E-01	8.59E-01	9.30E-01	1.04E+00	1.16E+00	1.27E+00
3	X/Q (SRC 3)	6.12E+00	5.47E+00	4.80E+00	4.27E+00	3.83E+00	3.45E+00	5.99E-01	6.44E-01	7.00E-01	7.76E-01	8.77E-01	1.01E+00	1.17E+00	1.33E+00	1.48E+00
4	X/Q (SRC 4)	5.94E+00	5.21E+00	4.62E+00	4.08E+00	3.58E+00	3.13E+00	7.08E-01	7.72E-01	8.51E-01	9.65E-01	1.12E+00	1.32E+00	1.53E+00	1.74E+00	2.00E+00
5	X/Q (SRC 5)	3.16E+00	2.82E+00	2.53E+00	2.28E+00	2.05E+00	1.85E+00	1.02E+00	1.16E+00	1.35E+00	1.60E+00	1.95E+00	2.39E+00	2.98E+00	3.79E+00	4.90E+00
6	X/Q (SRC 6)	6.49E+00	5.50E+00	4.67E+00	3.99E+00	3.42E+00	2.97E+00	9.13E-01	1.00E+00	1.12E+00	1.27E+00	1.50E+00	1.82E+00	2.27E+00	2.84E+00	3.58E+00
7	X/Q (SRC 7)	4.87E+00	4.53E+00	4.12E+00	3.74E+00	3.36E+00	3.06E+00	5.40E-01	5.82E-01	6.35E-01	7.06E-01	7.97E-01	9.08E-01	1.02E+00	1.13E+00	1.24E+00
8	X/Q (SRC 8)	1.73E+00	1.72E+00	1.67E+00	1.59E+00	1.48E+00	1.37E+00	2.19E-01	2.37E-01	2.57E-01	2.83E-01	3.14E-01	3.50E-01	3.94E-01	4.45E-01	5.06E-01
9	X/Q (SRC 9)	9.03E+00	7.10E+00	5.68E+00	4.65E+00	3.83E+00	3.20E+00	9.67E-01	1.06E+00	1.18E+00	1.32E+00	1.50E+00	1.75E+00	2.07E+00	2.51E+00	3.09E+00
10	X/Q (SRC 10)	1.17E+01	8.68E+00	6.58E+00	5.15E+00	4.10E+00	3.34E+00	1.29E+00	1.41E+00	1.56E+00	1.77E+00	2.07E+00	2.52E+00	3.19E+00	4.19E+00	5.70E+00
11	X/Q (SRC 11)	7.82E+00	6.76E+00	5.83E+00	5.07E+00	4.37E+00	3.77E+00	6.70E-01	7.21E-01	7.84E-01	8.66E-01	9.73E-01	1.11E+00	1.28E+00	1.49E+00	1.74E+00
12	X/Q (SRC 12)	5.00E+00	4.32E+00	3.74E+00	3.26E+00	2.85E+00	2.51E+00	8.22E-01	9.16E-01	1.03E+00	1.19E+00	1.37E+00	1.59E+00	1.86E+00	2.18E+00	2.57E+00
13	X/Q (SRC 13)	3.26E+00	2.92E+00	2.61E+00	2.34E+00	2.11E+00	1.91E+00	9.21E-01	1.04E+00	1.19E+00	1.39E+00	1.63E+00	1.93E+00	2.30E+00	2.78E+00	3.39E+00
14	X/Q (SRC 14)	6.19E+00	5.07E+00	4.22E+00	3.59E+00	3.06E+00	2.64E+00	9.42E-01	1.04E+00	1.17E+00	1.34E+00	1.54E+00	1.82E+00	2.18E+00	2.67E+00	3.34E+00
15	X/Q (SRC 15)	3.46E+00	2.86E+00	2.40E+00	2.05E+00	1.76E+00	1.54E+00	2.12E+00	2.42E+00	2.85E+00	3.54E+00	4.65E+00	6.50E+00	9.41E+00	1.39E+01	2.14E+01
16	X/Q (SRC 16)	3.00E+00	2.92E+00	2.76E+00	2.60E+00	2.41E+00	2.21E+00	5.05E-01	5.53E-01	6.08E-01	6.63E-01	7.18E-01	7.74E-01	8.35E-01	9.13E-01	1.00E+00
17	X/Q (SRC 17)	2.79E+00	2.51E+00	2.26E+00	2.05E+00	1.84E+00	1.65E+00	1.14E+00	1.28E+00	1.42E+00	1.63E+00	1.87E+00	2.07E+00	2.37E+00	2.69E+00	2.96E+00
18	X/Q (SRC 18)	6.11E+00	5.01E+00	4.17E+00	3.55E+00	3.03E+00	2.62E+00	9.49E-01	1.05E+00	1.18E+00	1.35E+00	1.56E+00	1.83E+00	2.20E+00	2.69E+00	3.35E+00
19	X/Q (SRC 19)	6.21E+00	5.09E+00	4.25E+00	3.62E+00	3.09E+00	2.67E+00	9.36E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00	1.83E+00	2.20E+00	2.70E+00	3.36E+00
20	X/Q (SRC 20)	1.40E+00	1.48E+00	1.51E+00	1.49E+00	1.45E+00	1.39E+00	3.68E-01	3.89E-01	4.11E-01	4.36E-01	4.62E-01	4.87E-01	5.14E-01	5.44E-01	5.77E-01
21	X/Q (SRC 21)	3.69E+00	3.23E+00	2.82E+00	2.47E+00	2.16E+00	1.90E+00	1.05E+00	1.21E+00	1.40E+00	1.61E+00	1.84E+00	2.13E+00	2.47E+00	2.88E+00	3.40E+00
22	X/Q (SRC 22)	5.93E+00	5.17E+00	4.53E+00	3.97E+00	3.47E+00	3.03E+00	7.18E-01	7.85E-01	8.70E-01	9.85E-01	1.13E+00	1.31E+00	1.51E+00	1.73E+00	1.99E+00
23	X/Q (SRC 23)	3.11E+00	2.78E+00	2.49E+00	2.24E+00	2.02E+00	1.83E+00	1.04E+00	1.17E+00	1.35E+00	1.60E+00	1.93E+00	2.36E+00	2.93E+00	3.75E+00	4.88E+00
24	X/Q (SRC 24)	6.35E+00	5.38E+00	4.57E+00	3.89E+00	3.34E+00	2.89E+00	9.25E-01	1.02E+00	1.13E+00	1.30E+00	1.52E+00	1.83E+00	2.25E+00	2.79E+00	3.52E+00
25	X/Q (SRC 25)	4.80E+00	4.49E+00	4.10E+00	3.75E+00	3.37E+00	3.04E+00	5.51E-01	5.95E-01	6.50E-01	7.20E-01	8.05E-01	9.05E-01	1.01E+00	1.12E+00	1.25E+00
26	X/Q (SRC 26)	8.77E+00	6.88E+00	5.49E+00	4.50E+00	3.71E+00	3.10E+00	9.83E-01	1.08E+00	1.19E+00	1.34E+00	1.52E+00	1.76E+00	2.08E+00	2.50E+00	3.07E+00
27	X/Q (SRC 27)	1.13E+01	8.36E+00	6.35E+00	4.97E+00	3.96E+00	3.23E+00	1.30E+00	1.43E+00	1.58E+00	1.80E+00	2.10E+00	2.54E+00	3.19E+00	4.15E+00	5.61E+00
28	X/Q (SRC 28)	7.73E+00	6.67E+00	5.74E+00	4.97E+00	4.27E+00	3.68E+00	6.80E-01	7.33E-01	7.98E-01	8.82E-01	9.89E-01	1.12E+00	1.29E+00	1.49E+00	1.74E+00
29	X/Q (SRC 29)	4.91E+00	4.23E+00	3.66E+00	3.18E+00	2.78E+00	2.44E+00	8.34E-01	9.28E-01	1.04E+00	1.19E+00	1.37E+00	1.58E+00	1.84E+00	2.15E+00	2.54E+00
30	X/Q (SRC 30)	3.21E+00	2.87E+00	2.57E+00	2.31E+00	2.08E+00	1.88E+00	9.28E-01	1.05E+00	1.19E+00	1.38E+00	1.61E+00	1.90E+00	2.27E+00	2.75E+00	3.38E+00
31	X/Q (SRC 31)	2.73E+00	2.45E+00	2.20E+00	1.99E+00	1.79E+00	1.61E+00	1.14E+00	1.27E+00	1.43E+00	1.61E+00	1.83E+00	2.06E+00	2.37E+00	2.72E+00	3.02E+00
32	X/Q (SRC 32)	1.43E+00	1.23E+00	1.07E+00	9.43E-01	8.38E-01	7.52E-01	7.33E+00	1.03E+01	1.29E+01	1.46E+01	1.54E+01	1.56E+01	1.56E+01	1.51E+01	1.42E+01
33	X/Q (SRC 33)	3.14E+00	2.86E+00	2.61E+00	2.40E+00	2.15E+00	1.92E+00	1.00E+00	1.15E+00	1.25E+00	1.37E+00	1.62E+00	1.91E+00	2.02E+00	2.31E+00	2.57E+00
34	X/Q (SRC 34)	3.86E+00	3.20E+00	2.69E+00	2.29E+00	1.96E+00	1.70E+00	1.83E+00	2.10E+00	2.49E+00	3.11E+00	4.18E+00	5.90E+00	8.18E+00	1.16E+01	1.62E+01
35	X/Q (SRC 35)	4.68E+00	4.28E+00	3.82E+00	3.42E+00	3.14E+00	2.91E+00	5.43E-01	5.85E-01	6.36E-01	7.14E-01	8.33E-01	9.64E-01	1.06E+00	1.14E+00	1.27E+00
36	X/Q (SRC 36)	4.97E+00	4.00E+00	3.28E+00	2.76E+00	2.33E+00	2.00E+00	1.60E+00	1.80E+00	2.07E+00	2.48E+00	3.09E+00	4.06E+00	5.52E+00	7.67E+00	1.08E+01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435
1	X/Q (SRC 1)	3.85E+00	4.33E+00	5.06E+00	5.70E+00	5.81E+00	5.45E+00	4.95E+00	4.39E+00	3.90E+00	3.53E+00	3.21E+00	2.91E+00	2.63E+00	2.36E+00	2.12E+00
2	X/Q (SRC 2)	1.37E+00	1.51E+00	1.67E+00	1.80E+00	1.93E+00	2.13E+00	2.39E+00	2.63E+00	2.79E+00	2.79E+00	2.67E+00	2.50E+00	2.32E+00	2.12E+00	1.95E+00
3	X/Q (SRC 3)	1.69E+00	1.98E+00	2.23E+00	2.54E+00	2.94E+00	3.27E+00	3.64E+00	4.20E+00	4.76E+00	4.95E+00	4.73E+00	4.35E+00	3.92E+00	3.50E+00	3.17E+00
4	X/Q (SRC 4)	2.38E+00	2.72E+00	3.18E+00	3.71E+00	4.15E+00	4.77E+00	5.53E+00	5.92E+00	5.75E+00	5.31E+00	4.75E+00	4.19E+00	3.76E+00	3.41E+00	3.09E+00
5	X/Q (SRC 5)	6.04E+00	6.88E+00	6.73E+00	6.06E+00	5.39E+00	4.82E+00	4.27E+00	3.82E+00	3.45E+00	3.12E+00	2.83E+00	2.55E+00	2.29E+00	2.09E+00	1.90E+00
6	X/Q (SRC 6)	4.60E+00	6.02E+00	7.57E+00	9.00E+00	9.19E+00	8.80E+00	8.24E+00	7.56E+00	6.84E+00	6.09E+00	5.35E+00	4.67E+00	4.07E+00	3.55E+00	3.11E+00
7	X/Q (SRC 7)	1.41E+00	1.61E+00	1.77E+00	1.96E+00	2.22E+00	2.48E+00	2.71E+00	3.05E+00	3.48E+00	3.77E+00	3.83E+00	3.65E+00	3.37E+00	3.10E+00	2.81E+00
8	X/Q (SRC 8)	5.78E-01	6.54E-01	7.39E-01	8.24E-01	9.11E-01	1.00E+00	1.09E+00	1.19E+00	1.29E+00	1.38E+00	1.42E+00	1.42E+00	1.39E+00	1.34E+00	1.27E+00
9	X/Q (SRC 9)	3.87E+00	4.94E+00	6.25E+00	7.81E+00	9.59E+00	1.13E+01	1.18E+01	1.15E+01	1.03E+01	8.61E+00	7.18E+00	5.96E+00	4.98E+00	4.23E+00	3.58E+00
10	X/Q (SRC 10)	7.89E+00	1.08E+01	1.36E+01	1.57E+01	1.72E+01	1.82E+01	1.81E+01	1.69E+01	1.48E+01	1.20E+01	9.56E+00	7.57E+00	6.04E+00	4.92E+00	4.03E+00
11	X/Q (SRC 11)	2.05E+00	2.42E+00	2.85E+00	3.36E+00	3.96E+00	4.67E+00	5.44E+00	6.17E+00	6.58E+00	6.46E+00	5.95E+00	5.29E+00	4.65E+00	4.17E+00	3.70E+00
12	X/Q (SRC 12)	3.04E+00	3.59E+00	4.20E+00	4.91E+00	5.63E+00	6.09E+00	6.09E+00	5.71E+00	5.18E+00	4.63E+00	4.11E+00	3.65E+00	3.25E+00	2.90E+00	2.59E+00
13	X/Q (SRC 13)	4.05E+00	4.65E+00	4.96E+00	4.96E+00	4.70E+00	4.34E+00	3.98E+00	3.65E+00	3.37E+00	3.10E+00	2.83E+00	2.58E+00	2.34E+00	2.12E+00	1.93E+00
14	X/Q (SRC 14)	4.21E+00	5.21E+00	6.16E+00	6.82E+00	7.32E+00	7.69E+00	7.66E+00	7.34E+00	6.74E+00	5.90E+00	5.07E+00	4.32E+00	3.70E+00	3.22E+00	2.81E+00
15	X/Q (SRC 15)	3.03E+01	3.45E+01	2.92E+01	2.19E+01	1.63E+01	1.22E+01	9.18E+00	7.02E+00	5.51E+00	4.42E+00	3.61E+00	3.00E+00	2.53E+00	2.17E+00	1.88E+00
16	X/Q (SRC 16)	1.09E+00	1.19E+00	1.30E+00	1.43E+00	1.55E+00	1.69E+00	1.84E+00	2.03E+00	2.24E+00	2.38E+00	2.46E+00	2.43E+00	2.32E+00	2.21E+00	2.06E+00
17	X/Q (SRC 17)	3.29E+00	3.81E+00	4.23E+00	4.31E+00	4.14E+00	3.89E+00	3.54E+00	3.19E+00	2.89E+00	2.62E+00	2.42E+00	2.22E+00	2.04E+00	1.88E+00	1.72E+00
18	X/Q (SRC 18)	4.21E+00	5.20E+00	6.14E+00	6.79E+00	7.28E+00	7.64E+00	7.61E+00	7.28E+00	6.68E+00	5.85E+00	5.02E+00	4.28E+00	3.66E+00	3.19E+00	2.78E+00
19	X/Q (SRC 19)	4.21E+00	5.22E+00	6.17E+00	6.83E+00	7.32E+00	7.69E+00	7.67E+00	7.35E+00	6.75E+00	5.90E+00	5.07E+00	4.33E+00	3.71E+00	3.24E+00	2.83E+00
20	X/Q (SRC 20)	6.13E-01	6.50E-01	6.92E-01	7.39E-01	7.89E-01	8.32E-01	8.71E-01	9.16E-01	9.88E-01	1.08E+00	1.17E+00	1.25E+00	1.29E+00	1.29E+00	1.27E+00
21	X/Q (SRC 21)	3.90E+00	4.41E+00	5.10E+00	5.65E+00	5.72E+00	5.39E+00	4.90E+00	4.37E+00	3.90E+00	3.50E+00	3.16E+00	2.85E+00	2.56E+00	2.30E+00	2.05E+00
22	X/Q (SRC 22)	2.32E+00	2.69E+00	3.17E+00	3.74E+00	4.23E+00	4.83E+00	5.50E+00	5.82E+00	5.66E+00	5.25E+00	4.72E+00	4.20E+00	3.75E+00	3.36E+00	3.03E+00
23	X/Q (SRC 23)	6.03E+00	6.79E+00	6.65E+00	5.99E+00	5.32E+00	4.75E+00	4.21E+00	3.76E+00	3.39E+00	3.07E+00	2.78E+00	2.51E+00	2.26E+00	2.06E+00	1.87E+00
24	X/Q (SRC 24)	4.52E+00	5.92E+00	7.51E+00	8.87E+00	9.10E+00	8.70E+00	8.13E+00	7.44E+00	6.72E+00	5.99E+00	5.26E+00	4.59E+00	3.99E+00	3.48E+00	3.05E+00
25	X/Q (SRC 25)	1.40E+00	1.58E+00	1.76E+00	1.97E+00	2.23E+00	2.52E+00	2.77E+00	3.10E+00	3.49E+00	3.74E+00	3.78E+00	3.61E+00	3.34E+00	3.10E+00	2.82E+00
26	X/Q (SRC 26)	3.83E+00	4.89E+00	6.22E+00	7.77E+00	9.49E+00	1.11E+01	1.16E+01	1.13E+01	1.01E+01	8.47E+00	7.05E+00	5.83E+00	4.85E+00	4.11E+00	3.48E+00
27	X/Q (SRC 27)	7.77E+00	1.05E+01	1.34E+01	1.54E+01	1.68E+01	1.78E+01	1.76E+01	1.65E+01	1.44E+01	1.17E+01	9.30E+00	7.34E+00	5.84E+00	4.76E+00	3.90E+00
28	X/Q (SRC 28)	2.03E+00	2.39E+00	2.82E+00	3.34E+00	3.97E+00	4.72E+00	5.48E+00	6.15E+00	6.51E+00	6.38E+00	5.90E+00	5.25E+00	4.62E+00	4.13E+00	3.65E+00
29	X/Q (SRC 29)	3.02E+00	3.59E+00	4.24E+00	4.96E+00	5.64E+00	6.03E+00	6.01E+00	5.63E+00	5.12E+00	4.59E+00	4.07E+00	3.61E+00	3.20E+00	2.84E+00	2.53E+00
30	X/Q (SRC 30)	4.06E+00	4.63E+00	4.93E+00	4.91E+00	4.66E+00	4.30E+00	3.94E+00	3.61E+00	3.33E+00	3.06E+00	2.79E+00	2.54E+00	2.31E+00	2.09E+00	1.90E+00
31	X/Q (SRC 31)	3.36E+00	3.84E+00	4.20E+00	4.26E+00	4.09E+00	3.87E+00	3.53E+00	3.20E+00	2.89E+00	2.61E+00	2.39E+00	2.19E+00	2.00E+00	1.84E+00	1.68E+00
32	X/Q (SRC 32)	1.30E+01	1.14E+01	9.64E+00	7.53E+00	5.64E+00	4.26E+00	3.30E+00	2.62E+00	2.15E+00	1.80E+00	1.53E+00	1.31E+00	1.15E+00	1.01E+00	9.00E-01
33	X/Q (SRC 33)	2.81E+00	3.12E+00	3.60E+00	4.09E+00	4.32E+00	4.26E+00	3.93E+00	3.55E+00	3.14E+00	2.83E+00	2.65E+00	2.46E+00	2.26E+00	2.11E+00	1.95E+00
34	X/Q (SRC 34)	2.15E+01	2.63E+01	2.38E+01	1.88E+01	1.50E+01	1.20E+01	9.42E+00	7.35E+00	5.79E+00	4.64E+00	3.82E+00	3.20E+00	2.73E+00	2.36E+00	2.06E+00
35	X/Q (SRC 35)	1.51E+00	1.71E+00	1.77E+00	2.02E+00	2.20E+00	2.44E+00	2.66E+00	3.06E+00	3.51E+00	3.75E+00	3.76E+00	3.49E+00	3.19E+00	2.89E+00	2.59E+00
36	X/Q (SRC 36)	1.51E+01	2.01E+01	2.32E+01	2.27E+01	1.96E+01	1.59E+01	1.25E+01	9.80E+00	7.72E+00	6.10E+00	4.90E+00	3.99E+00	3.30E+00	2.80E+00	2.40E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
1	X/Q (SRC 1)	1.89E+00	9.85E-01	1.12E+00	1.25E+00	1.38E+00	1.58E+00	1.83E+00	2.02E+00	2.30E+00	2.62E+00	2.89E+00	3.20E+00	3.68E+00	4.16E+00	4.37E+00
2	X/Q (SRC 2)	1.82E+00	5.73E-01	6.27E-01	6.74E-01	7.16E-01	7.64E-01	8.38E-01	9.35E-01	1.02E+00	1.08E+00	1.16E+00	1.28E+00	1.39E+00	1.47E+00	1.57E+00
3	X/Q (SRC 3)	2.90E+00	5.51E-01	5.97E-01	6.57E-01	7.38E-01	8.38E-01	9.50E-01	1.05E+00	1.15E+00	1.28E+00	1.47E+00	1.66E+00	1.81E+00	2.05E+00	2.29E+00
4	X/Q (SRC 4)	2.79E+00	6.48E-01	7.13E-01	8.01E-01	9.19E-01	1.06E+00	1.19E+00	1.32E+00	1.48E+00	1.72E+00	1.95E+00	2.18E+00	2.51E+00	2.80E+00	3.07E+00
5	X/Q (SRC 5)	1.73E+00	9.21E-01	1.05E+00	1.21E+00	1.41E+00	1.64E+00	1.93E+00	2.29E+00	2.74E+00	3.26E+00	3.80E+00	4.29E+00	4.57E+00	4.44E+00	4.13E+00
6	X/Q (SRC 6)	2.74E+00	8.01E-01	8.85E-01	9.98E-01	1.15E+00	1.36E+00	1.63E+00	1.94E+00	2.31E+00	2.77E+00	3.38E+00	4.09E+00	4.82E+00	5.67E+00	6.08E+00
7	X/Q (SRC 7)	2.57E+00	5.05E-01	5.49E-01	6.07E-01	6.80E-01	7.61E-01	8.40E-01	9.10E-01	9.83E-01	1.10E+00	1.24E+00	1.35E+00	1.47E+00	1.64E+00	1.82E+00
8	X/Q (SRC 8)	1.19E+00	2.15E-01	2.33E-01	2.53E-01	2.77E-01	3.04E-01	3.37E-01	3.76E-01	4.24E-01	4.73E-01	5.30E-01	5.88E-01	6.56E-01	7.15E-01	7.78E-01
9	X/Q (SRC 9)	3.07E+00	8.42E-01	9.26E-01	1.03E+00	1.16E+00	1.32E+00	1.53E+00	1.80E+00	2.11E+00	2.54E+00	3.05E+00	3.60E+00	4.38E+00	5.33E+00	6.35E+00
10	X/Q (SRC 10)	3.34E+00	1.05E+00	1.16E+00	1.30E+00	1.49E+00	1.76E+00	2.13E+00	2.62E+00	3.29E+00	4.19E+00	5.34E+00	6.64E+00	8.30E+00	9.66E+00	1.06E+01
11	X/Q (SRC 11)	3.30E+00	6.06E-01	6.56E-01	7.19E-01	8.00E-01	9.02E-01	1.02E+00	1.16E+00	1.32E+00	1.51E+00	1.74E+00	1.98E+00	2.28E+00	2.62E+00	2.99E+00
12	X/Q (SRC 12)	2.32E+00	7.58E-01	8.47E-01	9.55E-01	1.08E+00	1.22E+00	1.39E+00	1.59E+00	1.82E+00	2.08E+00	2.38E+00	2.73E+00	3.08E+00	3.50E+00	3.96E+00
13	X/Q (SRC 13)	1.76E+00	8.43E-01	9.49E-01	1.07E+00	1.22E+00	1.39E+00	1.59E+00	1.84E+00	2.14E+00	2.46E+00	2.80E+00	3.19E+00	3.49E+00	3.61E+00	3.56E+00
14	X/Q (SRC 14)	2.47E+00	8.34E-01	9.25E-01	1.04E+00	1.17E+00	1.34E+00	1.55E+00	1.81E+00	2.14E+00	2.55E+00	3.04E+00	3.54E+00	4.17E+00	4.67E+00	5.04E+00
15	X/Q (SRC 15)	1.64E+00	1.70E+00	1.99E+00	2.40E+00	3.02E+00	3.89E+00	5.07E+00	6.68E+00	9.01E+00	1.22E+01	1.55E+01	1.78E+01	1.75E+01	1.48E+01	1.21E+01
16	X/Q (SRC 16)	1.92E+00	4.87E-01	5.29E-01	5.72E-01	6.13E-01	6.56E-01	6.99E-01	7.55E-01	8.18E-01	8.92E-01	9.56E-01	1.01E+00	1.12E+00	1.23E+00	1.33E+00
17	X/Q (SRC 17)	1.58E+00	1.01E+00	1.11E+00	1.24E+00	1.42E+00	1.56E+00	1.71E+00	1.94E+00	2.10E+00	2.30E+00	2.53E+00	2.82E+00	3.19E+00	3.42E+00	3.37E+00
18	X/Q (SRC 18)	2.44E+00	8.41E-01	9.32E-01	1.04E+00	1.18E+00	1.35E+00	1.56E+00	1.82E+00	2.15E+00	2.55E+00	3.04E+00	3.54E+00	4.17E+00	4.66E+00	5.02E+00
19	X/Q (SRC 19)	2.49E+00	8.30E-01	9.22E-01	1.04E+00	1.18E+00	1.35E+00	1.56E+00	1.82E+00	2.15E+00	2.55E+00	3.03E+00	3.53E+00	4.16E+00	4.66E+00	5.02E+00
20	X/Q (SRC 20)	1.23E+00	3.50E-01	3.69E-01	3.89E-01	4.09E-01	4.29E-01	4.50E-01	4.73E-01	5.00E-01	5.27E-01	5.55E-01	5.87E-01	6.20E-01	6.57E-01	6.94E-01
21	X/Q (SRC 21)	1.83E+00	9.82E-01	1.11E+00	1.24E+00	1.39E+00	1.57E+00	1.78E+00	2.01E+00	2.31E+00	2.64E+00	2.94E+00	3.27E+00	3.72E+00	4.14E+00	4.31E+00
22	X/Q (SRC 22)	2.72E+00	6.62E-01	7.29E-01	8.16E-01	9.24E-01	1.05E+00	1.18E+00	1.32E+00	1.49E+00	1.69E+00	1.91E+00	2.18E+00	2.51E+00	2.83E+00	3.13E+00
23	X/Q (SRC 23)	1.70E+00	9.29E-01	1.05E+00	1.21E+00	1.40E+00	1.62E+00	1.90E+00	2.26E+00	2.73E+00	3.28E+00	3.83E+00	4.27E+00	4.53E+00	4.40E+00	4.10E+00
24	X/Q (SRC 24)	2.68E+00	8.14E-01	9.02E-01	1.02E+00	1.17E+00	1.37E+00	1.62E+00	1.92E+00	2.29E+00	2.73E+00	3.33E+00	4.08E+00	4.85E+00	5.64E+00	6.03E+00
25	X/Q (SRC 25)	2.58E+00	5.17E-01	5.62E-01	6.18E-01	6.83E-01	7.57E-01	8.33E-01	9.08E-01	9.88E-01	1.09E+00	1.22E+00	1.33E+00	1.47E+00	1.65E+00	1.84E+00
26	X/Q (SRC 26)	2.98E+00	8.55E-01	9.39E-01	1.04E+00	1.17E+00	1.33E+00	1.54E+00	1.80E+00	2.10E+00	2.52E+00	3.02E+00	3.59E+00	4.38E+00	5.35E+00	6.35E+00
27	X/Q (SRC 27)	3.23E+00	1.07E+00	1.18E+00	1.32E+00	1.51E+00	1.77E+00	2.13E+00	2.61E+00	3.26E+00	4.15E+00	5.30E+00	6.58E+00	8.22E+00	9.54E+00	1.05E+01
28	X/Q (SRC 28)	3.23E+00	6.16E-01	6.68E-01	7.33E-01	8.13E-01	9.10E-01	1.03E+00	1.16E+00	1.32E+00	1.50E+00	1.72E+00	1.95E+00	2.26E+00	2.62E+00	3.01E+00
29	X/Q (SRC 29)	2.26E+00	7.68E-01	8.55E-01	9.59E-01	1.08E+00	1.22E+00	1.38E+00	1.57E+00	1.80E+00	2.06E+00	2.38E+00	2.75E+00	3.13E+00	3.54E+00	3.98E+00
30	X/Q (SRC 30)	1.73E+00	8.47E-01	9.49E-01	1.07E+00	1.21E+00	1.38E+00	1.57E+00	1.82E+00	2.13E+00	2.47E+00	2.83E+00	3.21E+00	3.49E+00	3.59E+00	3.53E+00
31	X/Q (SRC 31)	1.54E+00	1.01E+00	1.11E+00	1.24E+00	1.38E+00	1.54E+00	1.71E+00	1.94E+00	2.14E+00	2.35E+00	2.58E+00	2.85E+00	3.19E+00	3.38E+00	3.33E+00
32	X/Q (SRC 32)	8.07E-01	4.73E+00	6.12E+00	7.56E+00	8.60E+00	9.17E+00	9.49E+00	9.57E+00	9.47E+00	9.06E+00	8.46E+00	7.69E+00	6.75E+00	5.68E+00	4.64E+00
33	X/Q (SRC 33)	1.81E+00	9.31E-01	9.95E-01	1.07E+00	1.23E+00	1.46E+00	1.56E+00	1.64E+00	1.87E+00	2.02E+00	2.20E+00	2.35E+00	2.73E+00	3.13E+00	3.37E+00
34	X/Q (SRC 34)	1.81E+00	1.52E+00	1.77E+00	2.15E+00	2.78E+00	3.60E+00	4.51E+00	5.98E+00	7.52E+00	9.50E+00	1.17E+01	1.43E+01	1.46E+01	1.28E+01	1.06E+01
35	X/Q (SRC 35)	2.42E+00	5.05E-01	5.48E-01	6.17E-01	7.13E-01	8.03E-01	8.64E-01	9.12E-01	9.91E-01	1.16E+00	1.34E+00	1.37E+00	1.47E+00	1.68E+00	1.78E+00
36	X/Q (SRC 36)	2.08E+00	1.32E+00	1.51E+00	1.77E+00	2.14E+00	2.67E+00	3.38E+00	4.31E+00	5.51E+00	7.13E+00	9.06E+00	1.10E+01	1.31E+01	1.38E+01	1.29E+01

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465
1	X/Q (SRC 1)	4.25E+00	3.95E+00	3.60E+00	3.24E+00	2.93E+00	2.69E+00	2.49E+00	2.30E+00	2.12E+00	1.94E+00	1.78E+00	9.15E-01	9.98E-01	1.08E+00	1.21E+00
2	X/Q (SRC 2)	1.71E+00	1.91E+00	2.10E+00	2.25E+00	2.30E+00	2.25E+00	2.13E+00	2.01E+00	1.87E+00	1.72E+00	1.59E+00	5.46E-01	5.80E-01	6.09E-01	6.43E-01
3	X/Q (SRC 3)	2.50E+00	2.75E+00	3.13E+00	3.54E+00	3.79E+00	3.74E+00	3.51E+00	3.25E+00	2.95E+00	2.66E+00	2.44E+00	5.19E-01	5.69E-01	6.34E-01	7.11E-01
4	X/Q (SRC 4)	3.48E+00	4.00E+00	4.37E+00	4.40E+00	4.18E+00	3.85E+00	3.47E+00	3.11E+00	2.84E+00	2.62E+00	2.42E+00	6.10E-01	6.82E-01	7.73E-01	8.70E-01
5	X/Q (SRC 5)	3.80E+00	3.48E+00	3.19E+00	2.94E+00	2.70E+00	2.49E+00	2.29E+00	2.09E+00	1.90E+00	1.74E+00	1.60E+00	8.43E-01	9.50E-01	1.08E+00	1.22E+00
6	X/Q (SRC 6)	6.10E+00	5.93E+00	5.63E+00	5.27E+00	4.86E+00	4.39E+00	3.93E+00	3.51E+00	3.12E+00	2.78E+00	2.49E+00	7.29E-01	8.14E-01	9.30E-01	1.08E+00
7	X/Q (SRC 7)	1.97E+00	2.13E+00	2.36E+00	2.67E+00	2.92E+00	3.04E+00	3.00E+00	2.82E+00	2.62E+00	2.42E+00	2.21E+00	4.81E-01	5.29E-01	5.88E-01	6.51E-01
8	X/Q (SRC 8)	8.45E-01	9.18E-01	9.86E-01	1.06E+00	1.13E+00	1.17E+00	1.17E+00	1.17E+00	1.14E+00	1.09E+00	1.04E+00	2.13E-01	2.29E-01	2.48E-01	2.69E-01
9	X/Q (SRC 9)	7.23E+00	7.70E+00	7.69E+00	7.26E+00	6.39E+00	5.60E+00	4.92E+00	4.24E+00	3.69E+00	3.24E+00	2.85E+00	7.57E-01	8.32E-01	9.25E-01	1.04E+00
10	X/Q (SRC 10)	1.12E+01	1.13E+01	1.09E+01	1.01E+01	8.82E+00	7.49E+00	6.29E+00	5.29E+00	4.44E+00	3.77E+00	3.20E+00	9.09E-01	1.01E+00	1.14E+00	1.32E+00
11	X/Q (SRC 11)	3.39E+00	3.85E+00	4.35E+00	4.73E+00	4.80E+00	4.59E+00	4.23E+00	3.82E+00	3.43E+00	3.11E+00	2.82E+00	5.60E-01	6.10E-01	6.75E-01	7.53E-01
12	X/Q (SRC 12)	4.35E+00	4.50E+00	4.36E+00	4.08E+00	3.74E+00	3.38E+00	3.06E+00	2.78E+00	2.53E+00	2.30E+00	2.10E+00	7.12E-01	7.92E-01	8.81E-01	9.77E-01
13	X/Q (SRC 13)	3.40E+00	3.20E+00	2.99E+00	2.81E+00	2.64E+00	2.45E+00	2.26E+00	2.08E+00	1.91E+00	1.76E+00	1.61E+00	7.80E-01	8.66E-01	9.64E-01	1.07E+00
14	X/Q (SRC 14)	5.27E+00	5.34E+00	5.23E+00	4.98E+00	4.57E+00	4.10E+00	3.64E+00	3.22E+00	2.84E+00	2.53E+00	2.26E+00	7.57E-01	8.35E-01	9.31E-01	1.04E+00
15	X/Q (SRC 15)	9.79E+00	7.94E+00	6.42E+00	5.22E+00	4.29E+00	3.56E+00	2.99E+00	2.55E+00	2.20E+00	1.92E+00	1.69E+00	1.49E+00	1.75E+00	2.13E+00	2.61E+00
16	X/Q (SRC 16)	1.41E+00	1.51E+00	1.65E+00	1.82E+00	1.94E+00	2.03E+00	2.06E+00	1.99E+00	1.90E+00	1.80E+00	1.69E+00	4.66E-01	4.99E-01	5.31E-01	5.63E-01
17	X/Q (SRC 17)	3.19E+00	2.95E+00	2.70E+00	2.46E+00	2.23E+00	2.08E+00	1.96E+00	1.82E+00	1.69E+00	1.58E+00	1.47E+00	8.87E-01	9.79E-01	1.11E+00	1.22E+00
18	X/Q (SRC 18)	5.24E+00	5.31E+00	5.19E+00	4.94E+00	4.53E+00	4.07E+00	3.60E+00	3.19E+00	2.81E+00	2.51E+00	2.24E+00	7.62E-01	8.41E-01	9.38E-01	1.05E+00
19	X/Q (SRC 19)	5.24E+00	5.31E+00	5.21E+00	4.97E+00	4.55E+00	4.09E+00	3.63E+00	3.21E+00	2.84E+00	2.54E+00	2.27E+00	7.55E-01	8.34E-01	9.33E-01	1.05E+00
20	X/Q (SRC 20)	7.27E-01	7.57E-01	7.92E-01	8.48E-01	9.24E-01	9.99E-01	1.06E+00	1.11E+00	1.13E+00	1.12E+00	1.09E+00	3.34E-01	3.51E-01	3.67E-01	3.83E-01
21	X/Q (SRC 21)	4.18E+00	3.91E+00	3.58E+00	3.24E+00	2.94E+00	2.68E+00	2.46E+00	2.26E+00	2.07E+00	1.90E+00	1.73E+00	9.05E-01	9.95E-01	1.09E+00	1.21E+00
22	X/Q (SRC 22)	3.53E+00	4.01E+00	4.31E+00	4.32E+00	4.14E+00	3.82E+00	3.46E+00	3.12E+00	2.84E+00	2.59E+00	2.38E+00	6.25E-01	6.93E-01	7.74E-01	8.60E-01
23	X/Q (SRC 23)	3.77E+00	3.45E+00	3.15E+00	2.90E+00	2.67E+00	2.46E+00	2.25E+00	2.06E+00	1.88E+00	1.72E+00	1.58E+00	8.48E-01	9.50E-01	1.07E+00	1.21E+00
24	X/Q (SRC 24)	6.05E+00	5.89E+00	5.57E+00	5.20E+00	4.80E+00	4.33E+00	3.87E+00	3.45E+00	3.07E+00	2.74E+00	2.44E+00	7.45E-01	8.32E-01	9.43E-01	1.08E+00
25	X/Q (SRC 25)	2.01E+00	2.18E+00	2.41E+00	2.69E+00	2.91E+00	3.01E+00	2.96E+00	2.80E+00	2.60E+00	2.42E+00	2.23E+00	4.92E-01	5.36E-01	5.89E-01	6.45E-01
26	X/Q (SRC 26)	7.19E+00	7.63E+00	7.60E+00	7.16E+00	6.32E+00	5.54E+00	4.85E+00	4.17E+00	3.61E+00	3.16E+00	2.77E+00	7.66E-01	8.41E-01	9.35E-01	1.05E+00
27	X/Q (SRC 27)	1.11E+01	1.12E+01	1.08E+01	9.91E+00	8.66E+00	7.35E+00	6.15E+00	5.15E+00	4.32E+00	3.66E+00	3.10E+00	9.24E-01	1.02E+00	1.16E+00	1.33E+00
28	X/Q (SRC 28)	3.43E+00	3.90E+00	4.36E+00	4.69E+00	4.75E+00	4.55E+00	4.20E+00	3.80E+00	3.42E+00	3.09E+00	2.79E+00	5.72E-01	6.22E-01	6.85E-01	7.59E-01
29	X/Q (SRC 29)	4.33E+00	4.45E+00	4.31E+00	4.03E+00	3.72E+00	3.37E+00	3.04E+00	2.75E+00	2.50E+00	2.27E+00	2.06E+00	7.18E-01	7.95E-01	8.81E-01	9.75E-01
30	X/Q (SRC 30)	3.37E+00	3.18E+00	2.97E+00	2.78E+00	2.61E+00	2.42E+00	2.23E+00	2.06E+00	1.89E+00	1.73E+00	1.60E+00	7.80E-01	8.64E-01	9.58E-01	1.06E+00
31	X/Q (SRC 31)	3.16E+00	2.94E+00	2.70E+00	2.47E+00	2.24E+00	2.08E+00	1.94E+00	1.80E+00	1.67E+00	1.55E+00	1.44E+00	8.93E-01	9.77E-01	1.08E+00	1.20E+00
32	X/Q (SRC 32)	3.77E+00	3.08E+00	2.54E+00	2.12E+00	1.81E+00	1.55E+00	1.34E+00	1.18E+00	1.05E+00	9.37E-01	8.43E-01	3.36E+00	4.12E+00	4.95E+00	5.62E+00
33	X/Q (SRC 33)	3.42E+00	3.22E+00	2.97E+00	2.70E+00	2.39E+00	2.21E+00	2.10E+00	1.98E+00	1.84E+00	1.73E+00	1.63E+00	8.12E-01	8.58E-01	9.63E-01	1.14E+00
34	X/Q (SRC 34)	8.97E+00	7.63E+00	6.44E+00	5.39E+00	4.47E+00	3.71E+00	3.11E+00	2.65E+00	2.29E+00	2.01E+00	1.78E+00	1.34E+00	1.60E+00	2.01E+00	2.44E+00
35	X/Q (SRC 35)	1.93E+00	2.08E+00	2.37E+00	2.69E+00	2.92E+00	3.01E+00	2.92E+00	2.71E+00	2.49E+00	2.25E+00	2.05E+00	4.81E-01	5.42E-01	6.18E-01	6.82E-01
36	X/Q (SRC 36)	1.11E+01	9.36E+00	7.83E+00	6.57E+00	5.48E+00	4.59E+00	3.84E+00	3.23E+00	2.74E+00	2.37E+00	2.06E+00	1.16E+00	1.34E+00	1.59E+00	1.91E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
1	X/Q (SRC 1)	1.38E+00	1.53E+00	1.66E+00	1.88E+00	2.08E+00	2.26E+00	2.43E+00	2.79E+00	3.15E+00	3.38E+00	3.39E+00	3.22E+00	3.00E+00	2.74E+00	2.49E+00
2	X/Q (SRC 2)	6.94E-01	7.70E-01	8.40E-01	8.89E-01	9.33E-01	1.01E+00	1.09E+00	1.17E+00	1.24E+00	1.31E+00	1.42E+00	1.57E+00	1.72E+00	1.85E+00	1.92E+00
3	X/Q (SRC 3)	7.89E-01	8.62E-01	9.24E-01	1.01E+00	1.14E+00	1.29E+00	1.38E+00	1.51E+00	1.69E+00	1.85E+00	1.99E+00	2.16E+00	2.43E+00	2.72E+00	2.96E+00
4	X/Q (SRC 4)	9.58E-01	1.04E+00	1.14E+00	1.31E+00	1.48E+00	1.61E+00	1.79E+00	2.02E+00	2.20E+00	2.38E+00	2.66E+00	3.03E+00	3.35E+00	3.45E+00	3.37E+00
5	X/Q (SRC 5)	1.38E+00	1.58E+00	1.80E+00	2.09E+00	2.36E+00	2.64E+00	2.95E+00	3.29E+00	3.32E+00	3.21E+00	3.02E+00	2.83E+00	2.66E+00	2.49E+00	2.33E+00
6	X/Q (SRC 6)	1.25E+00	1.43E+00	1.63E+00	1.90E+00	2.21E+00	2.60E+00	2.94E+00	3.39E+00	3.92E+00	4.30E+00	4.44E+00	4.44E+00	4.32E+00	4.12E+00	3.89E+00
7	X/Q (SRC 7)	7.06E-01	7.54E-01	8.06E-01	8.80E-01	9.86E-01	1.08E+00	1.14E+00	1.25E+00	1.38E+00	1.50E+00	1.60E+00	1.71E+00	1.89E+00	2.11E+00	2.33E+00
8	X/Q (SRC 8)	2.93E-01	3.25E-01	3.58E-01	3.99E-01	4.42E-01	4.88E-01	5.25E-01	5.82E-01	6.27E-01	6.80E-01	7.33E-01	7.89E-01	8.45E-01	8.88E-01	9.45E-01
9	X/Q (SRC 9)	1.18E+00	1.36E+00	1.57E+00	1.80E+00	2.08E+00	2.41E+00	2.74E+00	3.25E+00	3.80E+00	4.38E+00	4.96E+00	5.33E+00	5.47E+00	5.35E+00	4.92E+00
10	X/Q (SRC 10)	1.54E+00	1.83E+00	2.20E+00	2.65E+00	3.22E+00	3.87E+00	4.54E+00	5.57E+00	6.41E+00	7.08E+00	7.51E+00	7.67E+00	7.59E+00	7.25E+00	6.63E+00
11	X/Q (SRC 11)	8.41E-01	9.41E-01	1.05E+00	1.17E+00	1.32E+00	1.48E+00	1.63E+00	1.86E+00	2.09E+00	2.33E+00	2.57E+00	2.87E+00	3.23E+00	3.54E+00	3.68E+00
12	X/Q (SRC 12)	1.08E+00	1.22E+00	1.36E+00	1.53E+00	1.71E+00	1.92E+00	2.12E+00	2.36E+00	2.63E+00	2.95E+00	3.27E+00	3.45E+00	3.44E+00	3.28E+00	3.07E+00
13	X/Q (SRC 13)	1.19E+00	1.34E+00	1.50E+00	1.70E+00	1.89E+00	2.10E+00	2.33E+00	2.59E+00	2.74E+00	2.78E+00	2.72E+00	2.61E+00	2.49E+00	2.36E+00	2.24E+00
14	X/Q (SRC 14)	1.17E+00	1.34E+00	1.52E+00	1.75E+00	2.02E+00	2.31E+00	2.60E+00	3.04E+00	3.38E+00	3.66E+00	3.85E+00	3.94E+00	3.93E+00	3.82E+00	3.62E+00
15	X/Q (SRC 15)	3.18E+00	3.93E+00	4.89E+00	6.21E+00	7.73E+00	9.25E+00	1.05E+01	1.12E+01	1.03E+01	8.89E+00	7.55E+00	6.44E+00	5.50E+00	4.68E+00	3.98E+00
16	X/Q (SRC 16)	5.97E-01	6.35E-01	6.89E-01	7.40E-01	7.89E-01	8.34E-01	8.77E-01	9.74E-01	1.06E+00	1.12E+00	1.18E+00	1.25E+00	1.36E+00	1.50E+00	1.61E+00
17	X/Q (SRC 17)	1.30E+00	1.43E+00	1.60E+00	1.70E+00	1.82E+00	1.97E+00	2.17E+00	2.50E+00	2.71E+00	2.72E+00	2.63E+00	2.47E+00	2.30E+00	2.13E+00	1.94E+00
18	X/Q (SRC 18)	1.18E+00	1.34E+00	1.53E+00	1.76E+00	2.03E+00	2.32E+00	2.60E+00	3.04E+00	3.38E+00	3.65E+00	3.83E+00	3.92E+00	3.91E+00	3.79E+00	3.59E+00
19	X/Q (SRC 19)	1.18E+00	1.35E+00	1.54E+00	1.76E+00	2.02E+00	2.30E+00	2.58E+00	3.02E+00	3.36E+00	3.63E+00	3.81E+00	3.90E+00	3.90E+00	3.80E+00	3.60E+00
20	X/Q (SRC 20)	3.99E-01	4.18E-01	4.38E-01	4.61E-01	4.83E-01	5.06E-01	5.30E-01	5.60E-01	5.90E-01	6.20E-01	6.45E-01	6.69E-01	6.98E-01	7.40E-01	8.01E-01
21	X/Q (SRC 21)	1.35E+00	1.50E+00	1.66E+00	1.89E+00	2.11E+00	2.30E+00	2.49E+00	2.83E+00	3.15E+00	3.35E+00	3.34E+00	3.19E+00	2.98E+00	2.73E+00	2.51E+00
22	X/Q (SRC 22)	9.47E-01	1.04E+00	1.15E+00	1.29E+00	1.44E+00	1.60E+00	1.80E+00	2.03E+00	2.23E+00	2.43E+00	2.71E+00	3.05E+00	3.33E+00	3.39E+00	3.32E+00
23	X/Q (SRC 23)	1.37E+00	1.56E+00	1.80E+00	2.10E+00	2.39E+00	2.68E+00	2.96E+00	3.28E+00	3.30E+00	3.19E+00	3.01E+00	2.82E+00	2.64E+00	2.47E+00	2.31E+00
24	X/Q (SRC 24)	1.23E+00	1.42E+00	1.62E+00	1.88E+00	2.18E+00	2.57E+00	2.96E+00	3.43E+00	3.93E+00	4.29E+00	4.43E+00	4.42E+00	4.30E+00	4.08E+00	3.86E+00
25	X/Q (SRC 25)	6.99E-01	7.54E-01	8.11E-01	8.81E-01	9.69E-01	1.06E+00	1.13E+00	1.25E+00	1.39E+00	1.52E+00	1.64E+00	1.75E+00	1.92E+00	2.13E+00	2.33E+00
26	X/Q (SRC 26)	1.19E+00	1.36E+00	1.56E+00	1.79E+00	2.07E+00	2.40E+00	2.72E+00	3.27E+00	3.83E+00	4.41E+00	4.97E+00	5.31E+00	5.42E+00	5.29E+00	4.88E+00
27	X/Q (SRC 27)	1.55E+00	1.84E+00	2.18E+00	2.64E+00	3.20E+00	3.86E+00	4.53E+00	5.56E+00	6.38E+00	7.05E+00	7.47E+00	7.64E+00	7.54E+00	7.14E+00	6.54E+00
28	X/Q (SRC 28)	8.42E-01	9.40E-01	1.04E+00	1.17E+00	1.31E+00	1.46E+00	1.61E+00	1.85E+00	2.10E+00	2.36E+00	2.62E+00	2.92E+00	3.26E+00	3.52E+00	3.65E+00
29	X/Q (SRC 29)	1.08E+00	1.21E+00	1.35E+00	1.51E+00	1.70E+00	1.92E+00	2.15E+00	2.40E+00	2.67E+00	2.98E+00	3.26E+00	3.42E+00	3.41E+00	3.24E+00	3.05E+00
30	X/Q (SRC 30)	1.18E+00	1.33E+00	1.49E+00	1.70E+00	1.91E+00	2.13E+00	2.36E+00	2.60E+00	2.73E+00	2.76E+00	2.71E+00	2.60E+00	2.48E+00	2.34E+00	2.23E+00
31	X/Q (SRC 31)	1.30E+00	1.44E+00	1.61E+00	1.74E+00	1.86E+00	2.02E+00	2.19E+00	2.51E+00	2.69E+00	2.69E+00	2.60E+00	2.45E+00	2.29E+00	2.13E+00	1.96E+00
32	X/Q (SRC 32)	6.04E+00	6.34E+00	6.43E+00	6.42E+00	6.26E+00	5.96E+00	5.46E+00	5.01E+00	4.42E+00	3.82E+00	3.25E+00	2.77E+00	2.36E+00	2.02E+00	1.75E+00
33	X/Q (SRC 33)	1.25E+00	1.27E+00	1.39E+00	1.54E+00	1.63E+00	1.75E+00	1.85E+00	2.15E+00	2.43E+00	2.66E+00	2.75E+00	2.68E+00	2.51E+00	2.33E+00	2.11E+00
34	X/Q (SRC 34)	2.86E+00	3.63E+00	4.33E+00	5.25E+00	6.17E+00	7.25E+00	8.61E+00	9.62E+00	8.99E+00	7.87E+00	6.71E+00	5.91E+00	5.23E+00	4.59E+00	4.03E+00
35	X/Q (SRC 35)	7.21E-01	7.52E-01	8.05E-01	9.20E-01	1.07E+00	1.13E+00	1.12E+00	1.27E+00	1.39E+00	1.47E+00	1.57E+00	1.67E+00	1.89E+00	2.11E+00	2.34E+00
36	X/Q (SRC 36)	2.30E+00	2.78E+00	3.37E+00	4.11E+00	5.00E+00	5.96E+00	6.89E+00	8.28E+00	8.95E+00	8.82E+00	8.04E+00	7.04E+00	6.12E+00	5.33E+00	4.66E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495
1	X/Q (SRC 1)	2.28E+00	2.13E+00	1.99E+00	1.86E+00	1.74E+00	1.62E+00	8.19E-01	8.77E-01	9.64E-01	1.09E+00	1.20E+00	1.28E+00	1.40E+00	1.56E+00	1.69E+00
2	X/Q (SRC 2)	1.91E+00	1.84E+00	1.75E+00	1.65E+00	1.54E+00	1.42E+00	5.06E-01	5.27E-01	5.52E-01	5.90E-01	6.45E-01	7.08E-01	7.50E-01	7.76E-01	8.18E-01
3	X/Q (SRC 3)	3.00E+00	2.89E+00	2.71E+00	2.51E+00	2.30E+00	2.10E+00	5.00E-01	5.54E-01	6.15E-01	6.72E-01	7.18E-01	7.65E-01	8.23E-01	9.16E-01	1.03E+00
4	X/Q (SRC 4)	3.15E+00	2.91E+00	2.65E+00	2.40E+00	2.22E+00	2.08E+00	5.90E-01	6.63E-01	7.35E-01	7.95E-01	8.46E-01	9.18E-01	1.03E+00	1.16E+00	1.26E+00
5	X/Q (SRC 5)	2.18E+00	2.03E+00	1.88E+00	1.73E+00	1.60E+00	1.48E+00	7.77E-01	8.59E-01	9.53E-01	1.06E+00	1.18E+00	1.31E+00	1.47E+00	1.66E+00	1.82E+00
6	X/Q (SRC 6)	3.61E+00	3.30E+00	3.00E+00	2.72E+00	2.47E+00	2.24E+00	6.83E-01	7.73E-01	8.82E-01	9.96E-01	1.10E+00	1.23E+00	1.39E+00	1.59E+00	1.80E+00
7	X/Q (SRC 7)	2.45E+00	2.47E+00	2.38E+00	2.25E+00	2.10E+00	1.94E+00	4.69E-01	5.15E-01	5.62E-01	6.05E-01	6.38E-01	6.74E-01	7.28E-01	8.06E-01	8.89E-01
8	X/Q (SRC 8)	9.78E-01	9.90E-01	9.89E-01	9.72E-01	9.45E-01	9.07E-01	2.09E-01	2.23E-01	2.41E-01	2.62E-01	2.83E-01	3.13E-01	3.41E-01	3.75E-01	4.10E-01
9	X/Q (SRC 9)	4.42E+00	3.96E+00	3.53E+00	3.17E+00	2.85E+00	2.56E+00	6.95E-01	7.62E-01	8.44E-01	9.49E-01	1.07E+00	1.20E+00	1.36E+00	1.54E+00	1.74E+00
10	X/Q (SRC 10)	5.86E+00	5.12E+00	4.45E+00	3.88E+00	3.39E+00	2.96E+00	8.15E-01	9.10E-01	1.03E+00	1.19E+00	1.37E+00	1.59E+00	1.86E+00	2.18E+00	2.54E+00
11	X/Q (SRC 11)	3.62E+00	3.42E+00	3.15E+00	2.87E+00	2.62E+00	2.41E+00	5.29E-01	5.80E-01	6.41E-01	7.10E-01	7.79E-01	8.54E-01	9.35E-01	1.04E+00	1.15E+00
12	X/Q (SRC 12)	2.82E+00	2.59E+00	2.37E+00	2.19E+00	2.02E+00	1.87E+00	6.71E-01	7.36E-01	8.06E-01	8.80E-01	9.65E-01	1.07E+00	1.18E+00	1.30E+00	1.43E+00
13	X/Q (SRC 13)	2.11E+00	1.98E+00	1.84E+00	1.72E+00	1.59E+00	1.48E+00	7.17E-01	7.85E-01	8.60E-01	9.43E-01	1.03E+00	1.14E+00	1.25E+00	1.39E+00	1.51E+00
14	X/Q (SRC 14)	3.34E+00	3.04E+00	2.75E+00	2.48E+00	2.25E+00	2.04E+00	6.96E-01	7.62E-01	8.41E-01	9.36E-01	1.04E+00	1.16E+00	1.30E+00	1.46E+00	1.65E+00
15	X/Q (SRC 15)	3.39E+00	2.90E+00	2.49E+00	2.17E+00	1.90E+00	1.68E+00	1.35E+00	1.58E+00	1.87E+00	2.21E+00	2.59E+00	3.10E+00	3.70E+00	4.49E+00	5.29E+00
16	X/Q (SRC 16)	1.70E+00	1.74E+00	1.72E+00	1.66E+00	1.58E+00	1.50E+00	4.42E-01	4.63E-01	4.88E-01	5.15E-01	5.47E-01	5.84E-01	6.29E-01	6.69E-01	7.03E-01
17	X/Q (SRC 17)	1.80E+00	1.70E+00	1.61E+00	1.52E+00	1.43E+00	1.35E+00	7.98E-01	8.89E-01	9.80E-01	1.04E+00	1.11E+00	1.22E+00	1.33E+00	1.41E+00	1.49E+00
18	X/Q (SRC 18)	3.31E+00	3.01E+00	2.72E+00	2.46E+00	2.23E+00	2.02E+00	7.00E-01	7.66E-01	8.46E-01	9.40E-01	1.04E+00	1.17E+00	1.31E+00	1.47E+00	1.65E+00
19	X/Q (SRC 19)	3.32E+00	3.02E+00	2.74E+00	2.48E+00	2.25E+00	2.04E+00	6.95E-01	7.63E-01	8.45E-01	9.41E-01	1.05E+00	1.17E+00	1.31E+00	1.47E+00	1.64E+00
20	X/Q (SRC 20)	8.64E-01	9.23E-01	9.68E-01	9.91E-01	9.93E-01	9.78E-01	3.18E-01	3.32E-01	3.46E-01	3.59E-01	3.73E-01	3.90E-01	4.08E-01	4.26E-01	4.44E-01
21	X/Q (SRC 21)	2.30E+00	2.12E+00	1.97E+00	1.84E+00	1.71E+00	1.59E+00	8.17E-01	8.84E-01	9.66E-01	1.07E+00	1.17E+00	1.28E+00	1.41E+00	1.57E+00	1.72E+00
22	X/Q (SRC 22)	3.13E+00	2.89E+00	2.65E+00	2.42E+00	2.23E+00	2.06E+00	5.97E-01	6.61E-01	7.27E-01	7.87E-01	8.46E-01	9.25E-01	1.02E+00	1.13E+00	1.23E+00
23	X/Q (SRC 23)	2.16E+00	2.00E+00	1.85E+00	1.71E+00	1.58E+00	1.46E+00	7.76E-01	8.54E-01	9.45E-01	1.05E+00	1.17E+00	1.30E+00	1.47E+00	1.67E+00	1.84E+00
24	X/Q (SRC 24)	3.57E+00	3.26E+00	2.96E+00	2.68E+00	2.43E+00	2.20E+00	6.97E-01	7.82E-01	8.81E-01	9.86E-01	1.10E+00	1.23E+00	1.38E+00	1.57E+00	1.78E+00
25	X/Q (SRC 25)	2.43E+00	2.44E+00	2.36E+00	2.23E+00	2.09E+00	1.94E+00	4.74E-01	5.14E-01	5.56E-01	6.00E-01	6.38E-01	6.79E-01	7.32E-01	7.96E-01	8.66E-01
26	X/Q (SRC 26)	4.39E+00	3.94E+00	3.51E+00	3.13E+00	2.79E+00	2.51E+00	7.03E-01	7.70E-01	8.51E-01	9.55E-01	1.07E+00	1.20E+00	1.35E+00	1.53E+00	1.73E+00
27	X/Q (SRC 27)	5.78E+00	5.04E+00	4.37E+00	3.80E+00	3.30E+00	2.88E+00	8.30E-01	9.24E-01	1.05E+00	1.20E+00	1.37E+00	1.59E+00	1.85E+00	2.16E+00	2.53E+00
28	X/Q (SRC 28)	3.59E+00	3.39E+00	3.13E+00	2.87E+00	2.62E+00	2.40E+00	5.39E-01	5.87E-01	6.45E-01	7.10E-01	7.77E-01	8.53E-01	9.35E-01	1.03E+00	1.14E+00
29	X/Q (SRC 29)	2.81E+00	2.58E+00	2.37E+00	2.17E+00	2.00E+00	1.84E+00	6.72E-01	7.36E-01	8.05E-01	8.77E-01	9.59E-01	1.06E+00	1.17E+00	1.29E+00	1.43E+00
30	X/Q (SRC 30)	2.10E+00	1.96E+00	1.83E+00	1.70E+00	1.57E+00	1.46E+00	7.15E-01	7.82E-01	8.54E-01	9.33E-01	1.02E+00	1.13E+00	1.25E+00	1.39E+00	1.53E+00
31	X/Q (SRC 31)	1.81E+00	1.70E+00	1.60E+00	1.50E+00	1.41E+00	1.33E+00	8.01E-01	8.73E-01	9.53E-01	1.03E+00	1.12E+00	1.22E+00	1.35E+00	1.44E+00	1.53E+00
32	X/Q (SRC 32)	1.52E+00	1.34E+00	1.18E+00	1.05E+00	9.47E-01	8.56E-01	2.52E+00	2.98E+00	3.49E+00	3.95E+00	4.27E+00	4.50E+00	4.60E+00	4.62E+00	4.55E+00
33	X/Q (SRC 33)	1.90E+00	1.78E+00	1.71E+00	1.63E+00	1.54E+00	1.45E+00	7.11E-01	7.77E-01	9.02E-01	1.03E+00	1.05E+00	1.06E+00	1.21E+00	1.28E+00	1.36E+00
34	X/Q (SRC 34)	3.50E+00	3.02E+00	2.59E+00	2.24E+00	1.95E+00	1.73E+00	1.25E+00	1.52E+00	1.77E+00	2.00E+00	2.41E+00	2.90E+00	3.23E+00	3.83E+00	4.32E+00
35	X/Q (SRC 35)	2.43E+00	2.45E+00	2.31E+00	2.15E+00	1.99E+00	1.81E+00	4.84E-01	5.42E-01	5.86E-01	6.14E-01	6.34E-01	6.70E-01	7.50E-01	8.67E-01	9.48E-01
36	X/Q (SRC 36)	4.06E+00	3.53E+00	3.06E+00	2.65E+00	2.30E+00	2.02E+00	1.06E+00	1.23E+00	1.44E+00	1.69E+00	1.95E+00	2.29E+00	2.68E+00	3.15E+00	3.68E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510
1	X/Q (SRC 1)	1.81E+00	1.95E+00	2.19E+00	2.45E+00	2.67E+00	2.74E+00	2.67E+00	2.52E+00	2.35E+00	2.17E+00	1.98E+00	1.83E+00	1.72E+00	1.63E+00	1.54E+00
2	X/Q (SRC 2)	8.88E-01	9.51E-01	1.00E+00	1.05E+00	1.10E+00	1.19E+00	1.31E+00	1.43E+00	1.54E+00	1.62E+00	1.64E+00	1.60E+00	1.53E+00	1.46E+00	1.38E+00
3	X/Q (SRC 3)	1.11E+00	1.17E+00	1.28E+00	1.42E+00	1.52E+00	1.62E+00	1.74E+00	1.94E+00	2.16E+00	2.36E+00	2.45E+00	2.41E+00	2.29E+00	2.15E+00	2.01E+00
4	X/Q (SRC 4)	1.34E+00	1.50E+00	1.65E+00	1.77E+00	1.89E+00	2.09E+00	2.36E+00	2.62E+00	2.75E+00	2.75E+00	2.63E+00	2.46E+00	2.29E+00	2.09E+00	1.92E+00
5	X/Q (SRC 5)	2.00E+00	2.25E+00	2.47E+00	2.56E+00	2.55E+00	2.46E+00	2.33E+00	2.22E+00	2.11E+00	2.01E+00	1.90E+00	1.79E+00	1.68E+00	1.57E+00	1.46E+00
6	X/Q (SRC 6)	2.04E+00	2.26E+00	2.54E+00	2.88E+00	3.18E+00	3.35E+00	3.41E+00	3.39E+00	3.29E+00	3.15E+00	2.97E+00	2.77E+00	2.56E+00	2.36E+00	2.17E+00
7	X/Q (SRC 7)	9.45E-01	9.91E-01	1.08E+00	1.18E+00	1.26E+00	1.33E+00	1.40E+00	1.53E+00	1.71E+00	1.88E+00	2.01E+00	2.06E+00	2.02E+00	1.93E+00	1.82E+00
8	X/Q (SRC 8)	4.45E-01	4.80E-01	5.18E-01	5.57E-01	5.94E-01	6.37E-01	6.82E-01	7.25E-01	7.59E-01	8.00E-01	8.29E-01	8.44E-01	8.49E-01	8.39E-01	8.21E-01
9	X/Q (SRC 9)	1.97E+00	2.25E+00	2.52E+00	2.82E+00	3.23E+00	3.61E+00	3.89E+00	4.06E+00	4.09E+00	3.89E+00	3.57E+00	3.25E+00	2.93E+00	2.68E+00	2.45E+00
10	X/Q (SRC 10)	2.96E+00	3.44E+00	3.99E+00	4.54E+00	5.00E+00	5.33E+00	5.48E+00	5.53E+00	5.40E+00	5.08E+00	4.63E+00	4.16E+00	3.71E+00	3.32E+00	2.97E+00
11	X/Q (SRC 11)	1.27E+00	1.39E+00	1.54E+00	1.70E+00	1.86E+00	2.02E+00	2.22E+00	2.48E+00	2.73E+00	2.89E+00	2.91E+00	2.81E+00	2.64E+00	2.44E+00	2.25E+00
12	X/Q (SRC 12)	1.57E+00	1.72E+00	1.87E+00	2.05E+00	2.28E+00	2.53E+00	2.70E+00	2.76E+00	2.69E+00	2.56E+00	2.39E+00	2.21E+00	2.04E+00	1.90E+00	1.77E+00
13	X/Q (SRC 13)	1.64E+00	1.81E+00	2.00E+00	2.15E+00	2.21E+00	2.21E+00	2.16E+00	2.09E+00	2.00E+00	1.92E+00	1.83E+00	1.73E+00	1.63E+00	1.53E+00	1.44E+00
14	X/Q (SRC 14)	1.85E+00	2.07E+00	2.32E+00	2.57E+00	2.77E+00	2.93E+00	3.01E+00	3.05E+00	3.01E+00	2.91E+00	2.75E+00	2.55E+00	2.35E+00	2.16E+00	1.98E+00
15	X/Q (SRC 15)	6.14E+00	7.14E+00	7.65E+00	7.36E+00	6.68E+00	5.88E+00	5.13E+00	4.53E+00	4.00E+00	3.53E+00	3.10E+00	2.72E+00	2.39E+00	2.10E+00	1.86E+00
16	X/Q (SRC 16)	7.42E-01	7.98E-01	8.59E-01	9.14E-01	9.65E-01	1.01E+00	1.06E+00	1.14E+00	1.26E+00	1.36E+00	1.44E+00	1.49E+00	1.48E+00	1.45E+00	1.40E+00
17	X/Q (SRC 17)	1.61E+00	1.81E+00	2.00E+00	2.17E+00	2.25E+00	2.21E+00	2.10E+00	1.98E+00	1.87E+00	1.72E+00	1.59E+00	1.49E+00	1.41E+00	1.35E+00	1.29E+00
18	X/Q (SRC 18)	1.85E+00	2.08E+00	2.32E+00	2.57E+00	2.77E+00	2.92E+00	3.00E+00	3.04E+00	3.00E+00	2.89E+00	2.73E+00	2.53E+00	2.33E+00	2.14E+00	1.97E+00
19	X/Q (SRC 19)	1.83E+00	2.05E+00	2.30E+00	2.54E+00	2.75E+00	2.90E+00	2.98E+00	3.03E+00	3.00E+00	2.90E+00	2.73E+00	2.53E+00	2.33E+00	2.15E+00	1.97E+00
20	X/Q (SRC 20)	4.62E-01	4.83E-01	5.09E-01	5.34E-01	5.56E-01	5.76E-01	5.95E-01	6.19E-01	6.55E-01	7.04E-01	7.56E-01	8.07E-01	8.51E-01	8.77E-01	8.86E-01
21	X/Q (SRC 21)	1.84E+00	2.00E+00	2.22E+00	2.47E+00	2.65E+00	2.70E+00	2.63E+00	2.50E+00	2.33E+00	2.17E+00	2.00E+00	1.85E+00	1.73E+00	1.62E+00	1.52E+00
22	X/Q (SRC 22)	1.35E+00	1.50E+00	1.66E+00	1.81E+00	1.94E+00	2.13E+00	2.39E+00	2.62E+00	2.72E+00	2.71E+00	2.60E+00	2.44E+00	2.28E+00	2.10E+00	1.93E+00
23	X/Q (SRC 23)	2.03E+00	2.27E+00	2.47E+00	2.56E+00	2.53E+00	2.45E+00	2.33E+00	2.22E+00	2.10E+00	1.99E+00	1.88E+00	1.77E+00	1.66E+00	1.55E+00	1.45E+00
24	X/Q (SRC 24)	2.03E+00	2.28E+00	2.57E+00	2.91E+00	3.18E+00	3.35E+00	3.40E+00	3.38E+00	3.27E+00	3.13E+00	2.95E+00	2.75E+00	2.54E+00	2.34E+00	2.15E+00
25	X/Q (SRC 25)	9.30E-01	9.96E-01	1.08E+00	1.19E+00	1.28E+00	1.36E+00	1.44E+00	1.57E+00	1.73E+00	1.89E+00	2.01E+00	2.04E+00	1.99E+00	1.91E+00	1.81E+00
26	X/Q (SRC 26)	1.97E+00	2.25E+00	2.54E+00	2.86E+00	3.27E+00	3.63E+00	3.88E+00	4.03E+00	4.05E+00	3.86E+00	3.55E+00	3.24E+00	2.93E+00	2.67E+00	2.43E+00
27	X/Q (SRC 27)	2.96E+00	3.45E+00	4.00E+00	4.54E+00	5.00E+00	5.33E+00	5.47E+00	5.51E+00	5.35E+00	5.03E+00	4.59E+00	4.12E+00	3.67E+00	3.27E+00	2.91E+00
28	X/Q (SRC 28)	1.26E+00	1.39E+00	1.54E+00	1.72E+00	1.89E+00	2.06E+00	2.26E+00	2.51E+00	2.74E+00	2.87E+00	2.88E+00	2.78E+00	2.62E+00	2.43E+00	2.25E+00
29	X/Q (SRC 29)	1.58E+00	1.74E+00	1.91E+00	2.09E+00	2.31E+00	2.53E+00	2.69E+00	2.73E+00	2.66E+00	2.54E+00	2.38E+00	2.21E+00	2.05E+00	1.90E+00	1.76E+00
30	X/Q (SRC 30)	1.67E+00	1.84E+00	2.01E+00	2.15E+00	2.21E+00	2.20E+00	2.16E+00	2.08E+00	1.99E+00	1.91E+00	1.82E+00	1.72E+00	1.62E+00	1.52E+00	1.42E+00
31	X/Q (SRC 31)	1.65E+00	1.84E+00	2.02E+00	2.16E+00	2.23E+00	2.18E+00	2.08E+00	1.97E+00	1.86E+00	1.73E+00	1.60E+00	1.50E+00	1.41E+00	1.34E+00	1.27E+00
32	X/Q (SRC 32)	4.39E+00	4.15E+00	3.86E+00	3.52E+00	3.14E+00	2.77E+00	2.43E+00	2.13E+00	1.87E+00	1.65E+00	1.46E+00	1.30E+00	1.16E+00	1.04E+00	9.39E-01
33	X/Q (SRC 33)	1.44E+00	1.54E+00	1.74E+00	1.93E+00	2.14E+00	2.23E+00	2.24E+00	2.14E+00	2.01E+00	1.87E+00	1.71E+00	1.56E+00	1.46E+00	1.41E+00	1.36E+00
34	X/Q (SRC 34)	4.94E+00	5.89E+00	6.62E+00	6.58E+00	6.00E+00	5.30E+00	4.61E+00	4.16E+00	3.79E+00	3.42E+00	3.08E+00	2.77E+00	2.47E+00	2.19E+00	1.93E+00
35	X/Q (SRC 35)	9.45E-01	9.78E-01	1.11E+00	1.17E+00	1.23E+00	1.30E+00	1.37E+00	1.55E+00	1.71E+00	1.90E+00	2.00E+00	2.05E+00	1.99E+00	1.87E+00	1.76E+00
36	X/Q (SRC 36)	4.25E+00	4.92E+00	5.64E+00	6.19E+00	6.32E+00	6.01E+00	5.42E+00	4.84E+00	4.30E+00	3.85E+00	3.46E+00	3.10E+00	2.78E+00	2.47E+00	2.20E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
1	X/Q (SRC 1)	1.45E+00	7.27E-01	7.87E-01	8.79E-01	9.75E-01	1.03E+00	1.09E+00	1.20E+00	1.31E+00	1.40E+00	1.48E+00	1.59E+00	1.76E+00	1.96E+00	2.15E+00
2	X/Q (SRC 2)	1.29E+00	4.62E-01	4.80E-01	5.09E-01	5.52E-01	6.03E-01	6.45E-01	6.65E-01	6.85E-01	7.29E-01	7.86E-01	8.31E-01	8.69E-01	9.08E-01	9.48E-01
3	X/Q (SRC 3)	1.84E+00	4.90E-01	5.37E-01	5.80E-01	6.15E-01	6.45E-01	6.87E-01	7.53E-01	8.40E-01	9.09E-01	9.47E-01	1.01E+00	1.11E+00	1.20E+00	1.27E+00
4	X/Q (SRC 4)	1.79E+00	5.76E-01	6.29E-01	6.73E-01	7.10E-01	7.54E-01	8.33E-01	9.37E-01	1.02E+00	1.06E+00	1.14E+00	1.27E+00	1.37E+00	1.46E+00	1.54E+00
5	X/Q (SRC 5)	1.36E+00	7.09E-01	7.74E-01	8.48E-01	9.33E-01	1.02E+00	1.10E+00	1.22E+00	1.33E+00	1.45E+00	1.57E+00	1.75E+00	1.92E+00	2.03E+00	2.06E+00
6	X/Q (SRC 6)	2.00E+00	6.57E-01	7.38E-01	8.18E-01	8.91E-01	9.67E-01	1.08E+00	1.21E+00	1.35E+00	1.49E+00	1.64E+00	1.80E+00	1.98E+00	2.21E+00	2.43E+00
7	X/Q (SRC 7)	1.71E+00	4.58E-01	4.95E-01	5.25E-01	5.50E-01	5.76E-01	6.12E-01	6.69E-01	7.37E-01	7.93E-01	8.20E-01	8.65E-01	9.44E-01	1.01E+00	1.07E+00
8	X/Q (SRC 8)	7.97E-01	2.04E-01	2.19E-01	2.36E-01	2.54E-01	2.74E-01	2.99E-01	3.23E-01	3.50E-01	3.79E-01	4.06E-01	4.36E-01	4.65E-01	4.95E-01	5.24E-01
9	X/Q (SRC 9)	2.25E+00	6.45E-01	7.08E-01	7.81E-01	8.67E-01	9.68E-01	1.07E+00	1.18E+00	1.31E+00	1.47E+00	1.64E+00	1.82E+00	2.00E+00	2.20E+00	2.48E+00
10	X/Q (SRC 10)	2.66E+00	7.52E-01	8.44E-01	9.51E-01	1.07E+00	1.22E+00	1.39E+00	1.57E+00	1.79E+00	2.05E+00	2.33E+00	2.64E+00	3.00E+00	3.36E+00	3.70E+00
11	X/Q (SRC 11)	2.07E+00	5.08E-01	5.57E-01	6.09E-01	6.61E-01	7.13E-01	7.68E-01	8.36E-01	9.22E-01	1.01E+00	1.10E+00	1.19E+00	1.29E+00	1.41E+00	1.52E+00
12	X/Q (SRC 12)	1.65E+00	6.27E-01	6.77E-01	7.31E-01	7.93E-01	8.67E-01	9.51E-01	1.03E+00	1.11E+00	1.21E+00	1.31E+00	1.42E+00	1.52E+00	1.65E+00	1.82E+00
13	X/Q (SRC 13)	1.35E+00	6.55E-01	7.08E-01	7.70E-01	8.37E-01	9.04E-01	9.79E-01	1.07E+00	1.16E+00	1.24E+00	1.33E+00	1.45E+00	1.60E+00	1.72E+00	1.80E+00
14	X/Q (SRC 14)	1.82E+00	6.43E-01	7.02E-01	7.67E-01	8.41E-01	9.22E-01	1.01E+00	1.11E+00	1.23E+00	1.37E+00	1.51E+00	1.66E+00	1.84E+00	2.02E+00	2.17E+00
15	X/Q (SRC 15)	1.65E+00	1.24E+00	1.42E+00	1.62E+00	1.86E+00	2.15E+00	2.47E+00	2.85E+00	3.34E+00	3.83E+00	4.34E+00	4.99E+00	5.46E+00	5.46E+00	5.13E+00
16	X/Q (SRC 16)	1.34E+00	4.14E-01	4.32E-01	4.51E-01	4.74E-01	5.07E-01	5.40E-01	5.78E-01	6.01E-01	6.30E-01	6.66E-01	7.13E-01	7.61E-01	8.03E-01	8.43E-01
17	X/Q (SRC 17)	1.22E+00	7.35E-01	8.12E-01	8.61E-01	8.91E-01	9.65E-01	1.05E+00	1.11E+00	1.18E+00	1.25E+00	1.34E+00	1.48E+00	1.64E+00	1.78E+00	1.87E+00
18	X/Q (SRC 18)	1.81E+00	6.46E-01	7.05E-01	7.71E-01	8.45E-01	9.26E-01	1.02E+00	1.12E+00	1.23E+00	1.37E+00	1.51E+00	1.67E+00	1.84E+00	2.02E+00	2.17E+00
19	X/Q (SRC 19)	1.82E+00	6.43E-01	7.04E-01	7.72E-01	8.47E-01	9.30E-01	1.02E+00	1.12E+00	1.23E+00	1.36E+00	1.49E+00	1.64E+00	1.82E+00	1.99E+00	2.15E+00
20	X/Q (SRC 20)	8.80E-01	3.02E-01	3.13E-01	3.25E-01	3.38E-01	3.50E-01	3.66E-01	3.81E-01	3.95E-01	4.09E-01	4.25E-01	4.44E-01	4.66E-01	4.86E-01	5.02E-01
21	X/Q (SRC 21)	1.43E+00	7.33E-01	7.92E-01	8.67E-01	9.47E-01	1.02E+00	1.10E+00	1.21E+00	1.33E+00	1.43E+00	1.51E+00	1.63E+00	1.79E+00	1.98E+00	2.14E+00
22	X/Q (SRC 22)	1.80E+00	5.72E-01	6.20E-01	6.67E-01	7.11E-01	7.60E-01	8.32E-01	9.15E-01	9.94E-01	1.06E+00	1.15E+00	1.28E+00	1.39E+00	1.49E+00	1.58E+00
23	X/Q (SRC 23)	1.35E+00	7.06E-01	7.70E-01	8.41E-01	9.21E-01	1.01E+00	1.10E+00	1.22E+00	1.35E+00	1.47E+00	1.60E+00	1.77E+00	1.93E+00	2.03E+00	2.05E+00
24	X/Q (SRC 24)	1.97E+00	6.62E-01	7.34E-01	8.10E-01	8.87E-01	9.68E-01	1.07E+00	1.20E+00	1.33E+00	1.48E+00	1.65E+00	1.82E+00	2.01E+00	2.24E+00	2.45E+00
25	X/Q (SRC 25)	1.71E+00	4.56E-01	4.89E-01	5.20E-01	5.50E-01	5.81E-01	6.17E-01	6.64E-01	7.19E-01	7.74E-01	8.18E-01	8.73E-01	9.48E-01	1.03E+00	1.09E+00
26	X/Q (SRC 26)	2.22E+00	6.52E-01	7.14E-01	7.85E-01	8.68E-01	9.65E-01	1.06E+00	1.17E+00	1.30E+00	1.46E+00	1.64E+00	1.83E+00	2.02E+00	2.24E+00	2.51E+00
27	X/Q (SRC 27)	2.60E+00	7.64E-01	8.53E-01	9.58E-01	1.08E+00	1.22E+00	1.38E+00	1.56E+00	1.78E+00	2.05E+00	2.33E+00	2.65E+00	3.01E+00	3.38E+00	3.71E+00
28	X/Q (SRC 28)	2.08E+00	5.13E-01	5.59E-01	6.08E-01	6.60E-01	7.12E-01	7.69E-01	8.34E-01	9.11E-01	9.99E-01	1.09E+00	1.18E+00	1.30E+00	1.43E+00	1.55E+00
29	X/Q (SRC 29)	1.64E+00	6.26E-01	6.76E-01	7.30E-01	7.90E-01	8.58E-01	9.38E-01	1.02E+00	1.11E+00	1.21E+00	1.33E+00	1.44E+00	1.55E+00	1.68E+00	1.84E+00
30	X/Q (SRC 30)	1.33E+00	6.53E-01	7.05E-01	7.63E-01	8.27E-01	8.94E-01	9.77E-01	1.07E+00	1.17E+00	1.26E+00	1.35E+00	1.48E+00	1.61E+00	1.73E+00	1.80E+00
31	X/Q (SRC 31)	1.21E+00	7.26E-01	7.89E-01	8.43E-01	8.96E-01	9.73E-01	1.05E+00	1.13E+00	1.20E+00	1.28E+00	1.38E+00	1.51E+00	1.66E+00	1.78E+00	1.86E+00
32	X/Q (SRC 32)	8.53E-01	1.97E+00	2.26E+00	2.60E+00	2.92E+00	3.17E+00	3.35E+00	3.44E+00	3.47E+00	3.44E+00	3.35E+00	3.22E+00	3.04E+00	2.83E+00	2.59E+00
33	X/Q (SRC 33)	1.30E+00	6.48E-01	7.40E-01	8.44E-01	8.88E-01	8.74E-01	9.26E-01	1.04E+00	1.07E+00	1.15E+00	1.20E+00	1.28E+00	1.44E+00	1.58E+00	1.76E+00
34	X/Q (SRC 34)	1.70E+00	1.20E+00	1.35E+00	1.48E+00	1.72E+00	2.08E+00	2.25E+00	2.54E+00	2.87E+00	3.19E+00	3.57E+00	4.17E+00	4.75E+00	4.94E+00	4.68E+00
35	X/Q (SRC 35)	1.63E+00	4.82E-01	5.13E-01	5.30E-01	5.45E-01	5.69E-01	6.24E-01	7.13E-01	7.95E-01	8.15E-01	8.00E-01	8.69E-01	9.65E-01	9.89E-01	1.05E+00
36	X/Q (SRC 36)	1.95E+00	9.91E-01	1.14E+00	1.29E+00	1.46E+00	1.66E+00	1.90E+00	2.15E+00	2.46E+00	2.81E+00	3.17E+00	3.57E+00	4.05E+00	4.49E+00	4.70E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
1	X/Q (SRC 1)	2.24E+00	2.23E+00	2.14E+00	2.02E+00	1.89E+00	1.75E+00	1.62E+00	1.51E+00	1.43E+00	1.36E+00	1.30E+00	6.58E-01	7.25E-01	8.02E-01	8.59E-01
2	X/Q (SRC 2)	1.02E+00	1.11E+00	1.21E+00	1.31E+00	1.38E+00	1.41E+00	1.40E+00	1.36E+00	1.30E+00	1.24E+00	1.17E+00	4.23E-01	4.45E-01	4.77E-01	5.21E-01
3	X/Q (SRC 3)	1.34E+00	1.43E+00	1.58E+00	1.75E+00	1.91E+00	2.01E+00	2.03E+00	1.96E+00	1.86E+00	1.75E+00	1.64E+00	4.75E-01	5.07E-01	5.31E-01	5.54E-01
4	X/Q (SRC 4)	1.69E+00	1.89E+00	2.09E+00	2.23E+00	2.27E+00	2.22E+00	2.10E+00	1.98E+00	1.84E+00	1.69E+00	1.57E+00	5.46E-01	5.77E-01	6.01E-01	6.36E-01
5	X/Q (SRC 5)	2.03E+00	1.95E+00	1.88E+00	1.80E+00	1.73E+00	1.65E+00	1.58E+00	1.50E+00	1.41E+00	1.33E+00	1.25E+00	6.46E-01	6.99E-01	7.60E-01	8.23E-01
6	X/Q (SRC 6)	2.59E+00	2.69E+00	2.71E+00	2.68E+00	2.59E+00	2.48E+00	2.35E+00	2.20E+00	2.05E+00	1.90E+00	1.77E+00	6.30E-01	6.86E-01	7.34E-01	7.88E-01
7	X/Q (SRC 7)	1.13E+00	1.17E+00	1.28E+00	1.42E+00	1.55E+00	1.67E+00	1.73E+00	1.73E+00	1.68E+00	1.60E+00	1.52E+00	4.40E-01	4.63E-01	4.80E-01	4.99E-01
8	X/Q (SRC 8)	5.55E-01	5.92E-01	6.27E-01	6.55E-01	6.83E-01	7.10E-01	7.27E-01	7.32E-01	7.31E-01	7.18E-01	7.03E-01	2.00E-01	2.13E-01	2.27E-01	2.46E-01
9	X/Q (SRC 9)	2.76E+00	2.96E+00	3.15E+00	3.21E+00	3.13E+00	2.94E+00	2.72E+00	2.50E+00	2.28E+00	2.11E+00	1.96E+00	6.06E-01	6.61E-01	7.25E-01	7.95E-01
10	X/Q (SRC 10)	3.96E+00	4.09E+00	4.19E+00	4.15E+00	3.99E+00	3.72E+00	3.41E+00	3.10E+00	2.82E+00	2.57E+00	2.34E+00	7.07E-01	7.85E-01	8.71E-01	9.73E-01
11	X/Q (SRC 11)	1.63E+00	1.77E+00	1.97E+00	2.17E+00	2.32E+00	2.38E+00	2.34E+00	2.23E+00	2.10E+00	1.95E+00	1.81E+00	4.91E-01	5.31E-01	5.69E-01	6.08E-01
12	X/Q (SRC 12)	2.00E+00	2.17E+00	2.24E+00	2.23E+00	2.16E+00	2.05E+00	1.92E+00	1.78E+00	1.66E+00	1.55E+00	1.46E+00	5.79E-01	6.18E-01	6.62E-01	7.20E-01
13	X/Q (SRC 13)	1.83E+00	1.82E+00	1.77E+00	1.72E+00	1.65E+00	1.59E+00	1.52E+00	1.44E+00	1.37E+00	1.29E+00	1.22E+00	5.97E-01	6.43E-01	6.93E-01	7.45E-01
14	X/Q (SRC 14)	2.30E+00	2.37E+00	2.44E+00	2.44E+00	2.39E+00	2.29E+00	2.16E+00	2.02E+00	1.88E+00	1.74E+00	1.62E+00	5.98E-01	6.46E-01	6.98E-01	7.58E-01
15	X/Q (SRC 15)	4.66E+00	4.15E+00	3.72E+00	3.35E+00	3.03E+00	2.74E+00	2.47E+00	2.22E+00	1.99E+00	1.79E+00	1.60E+00	1.12E+00	1.25E+00	1.39E+00	1.58E+00
16	X/Q (SRC 16)	8.79E-01	9.12E-01	9.84E-01	1.08E+00	1.17E+00	1.24E+00	1.28E+00	1.30E+00	1.28E+00	1.25E+00	1.20E+00	3.86E-01	4.01E-01	4.20E-01	4.43E-01
17	X/Q (SRC 17)	1.88E+00	1.80E+00	1.73E+00	1.64E+00	1.54E+00	1.43E+00	1.33E+00	1.26E+00	1.20E+00	1.15E+00	1.10E+00	6.84E-01	7.33E-01	7.55E-01	7.81E-01
18	X/Q (SRC 18)	2.30E+00	2.37E+00	2.43E+00	2.43E+00	2.37E+00	2.27E+00	2.15E+00	2.01E+00	1.87E+00	1.73E+00	1.61E+00	6.00E-01	6.49E-01	7.01E-01	7.61E-01
19	X/Q (SRC 19)	2.28E+00	2.35E+00	2.42E+00	2.43E+00	2.38E+00	2.28E+00	2.15E+00	2.01E+00	1.87E+00	1.73E+00	1.61E+00	5.99E-01	6.49E-01	7.03E-01	7.64E-01
20	X/Q (SRC 20)	5.18E-01	5.34E-01	5.54E-01	5.84E-01	6.24E-01	6.68E-01	7.13E-01	7.53E-01	7.81E-01	7.94E-01	7.95E-01	2.86E-01	2.96E-01	3.06E-01	3.18E-01
21	X/Q (SRC 21)	2.22E+00	2.20E+00	2.12E+00	2.00E+00	1.88E+00	1.76E+00	1.63E+00	1.52E+00	1.43E+00	1.36E+00	1.29E+00	6.63E-01	7.18E-01	7.79E-01	8.38E-01
22	X/Q (SRC 22)	1.72E+00	1.92E+00	2.10E+00	2.21E+00	2.24E+00	2.18E+00	2.08E+00	1.96E+00	1.84E+00	1.70E+00	1.58E+00	5.38E-01	5.72E-01	6.03E-01	6.42E-01
23	X/Q (SRC 23)	2.02E+00	1.94E+00	1.88E+00	1.80E+00	1.72E+00	1.65E+00	1.57E+00	1.48E+00	1.40E+00	1.32E+00	1.24E+00	6.44E-01	6.94E-01	7.50E-01	8.12E-01
24	X/Q (SRC 24)	2.60E+00	2.69E+00	2.71E+00	2.66E+00	2.58E+00	2.47E+00	2.33E+00	2.18E+00	2.03E+00	1.89E+00	1.76E+00	6.25E-01	6.79E-01	7.31E-01	7.91E-01
25	X/Q (SRC 25)	1.15E+00	1.20E+00	1.31E+00	1.44E+00	1.57E+00	1.67E+00	1.72E+00	1.71E+00	1.66E+00	1.59E+00	1.51E+00	4.35E-01	4.59E-01	4.81E-01	5.04E-01
26	X/Q (SRC 26)	2.79E+00	2.96E+00	3.13E+00	3.19E+00	3.10E+00	2.93E+00	2.71E+00	2.50E+00	2.29E+00	2.11E+00	1.94E+00	6.10E-01	6.65E-01	7.26E-01	7.92E-01
27	X/Q (SRC 27)	3.96E+00	4.09E+00	4.18E+00	4.13E+00	3.95E+00	3.70E+00	3.39E+00	3.08E+00	2.80E+00	2.54E+00	2.31E+00	7.14E-01	7.90E-01	8.74E-01	9.74E-01
28	X/Q (SRC 28)	1.67E+00	1.80E+00	2.00E+00	2.18E+00	2.31E+00	2.35E+00	2.31E+00	2.21E+00	2.09E+00	1.95E+00	1.81E+00	4.91E-01	5.29E-01	5.67E-01	6.07E-01
29	X/Q (SRC 29)	2.02E+00	2.16E+00	2.23E+00	2.21E+00	2.13E+00	2.03E+00	1.91E+00	1.78E+00	1.67E+00	1.56E+00	1.46E+00	5.79E-01	6.18E-01	6.60E-01	7.14E-01
30	X/Q (SRC 30)	1.82E+00	1.81E+00	1.77E+00	1.71E+00	1.65E+00	1.58E+00	1.51E+00	1.44E+00	1.36E+00	1.29E+00	1.21E+00	5.95E-01	6.37E-01	6.83E-01	7.35E-01
31	X/Q (SRC 31)	1.86E+00	1.78E+00	1.71E+00	1.63E+00	1.54E+00	1.44E+00	1.34E+00	1.27E+00	1.20E+00	1.15E+00	1.10E+00	6.66E-01	7.12E-01	7.51E-01	7.91E-01
32	X/Q (SRC 32)	2.34E+00	2.11E+00	1.90E+00	1.70E+00	1.52E+00	1.38E+00	1.24E+00	1.12E+00	1.01E+00	9.20E-01	8.40E-01	1.58E+00	1.77E+00	2.00E+00	2.24E+00
33	X/Q (SRC 33)	1.85E+00	1.88E+00	1.86E+00	1.76E+00	1.65E+00	1.54E+00	1.41E+00	1.30E+00	1.23E+00	1.20E+00	1.16E+00	6.19E-01	7.07E-01	7.64E-01	7.54E-01
34	X/Q (SRC 34)	4.27E+00	3.79E+00	3.36E+00	3.09E+00	2.87E+00	2.64E+00	2.42E+00	2.23E+00	2.04E+00	1.85E+00	1.67E+00	1.07E+00	1.14E+00	1.29E+00	1.55E+00
35	X/Q (SRC 35)	1.10E+00	1.14E+00	1.29E+00	1.41E+00	1.57E+00	1.67E+00	1.72E+00	1.73E+00	1.65E+00	1.55E+00	1.46E+00	4.53E-01	4.65E-01	4.75E-01	4.92E-01
36	X/Q (SRC 36)	4.61E+00	4.27E+00	3.91E+00	3.53E+00	3.19E+00	2.91E+00	2.66E+00	2.44E+00	2.23E+00	2.03E+00	1.85E+00	9.28E-01	1.03E+00	1.13E+00	1.27E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555
1	X/Q (SRC 1)	8.87E-01	9.46E-01	1.04E+00	1.12E+00	1.18E+00	1.24E+00	1.32E+00	1.45E+00	1.60E+00	1.76E+00	1.85E+00	1.89E+00	1.84E+00	1.75E+00	1.66E+00
2	X/Q (SRC 2)	5.59E-01	5.80E-01	5.90E-01	6.13E-01	6.57E-01	7.01E-01	7.31E-01	7.62E-01	7.93E-01	8.24E-01	8.77E-01	9.55E-01	1.04E+00	1.12E+00	1.19E+00
3	X/Q (SRC 3)	5.83E-01	6.31E-01	6.99E-01	7.63E-01	7.96E-01	8.20E-01	8.82E-01	9.66E-01	1.02E+00	1.08E+00	1.12E+00	1.20E+00	1.32E+00	1.45E+00	1.58E+00
4	X/Q (SRC 4)	6.90E-01	7.69E-01	8.43E-01	8.82E-01	9.16E-01	1.00E+00	1.09E+00	1.15E+00	1.22E+00	1.28E+00	1.39E+00	1.55E+00	1.71E+00	1.83E+00	1.90E+00
5	X/Q (SRC 5)	8.78E-01	9.52E-01	1.04E+00	1.12E+00	1.19E+00	1.27E+00	1.40E+00	1.54E+00	1.65E+00	1.70E+00	1.69E+00	1.66E+00	1.61E+00	1.56E+00	1.50E+00
6	X/Q (SRC 6)	8.61E-01	9.58E-01	1.05E+00	1.15E+00	1.25E+00	1.35E+00	1.47E+00	1.60E+00	1.75E+00	1.92E+00	2.06E+00	2.16E+00	2.21E+00	2.21E+00	2.17E+00
7	X/Q (SRC 7)	5.28E-01	5.71E-01	6.27E-01	6.74E-01	7.00E-01	7.19E-01	7.68E-01	8.33E-01	8.81E-01	9.23E-01	9.64E-01	1.01E+00	1.09E+00	1.19E+00	1.30E+00
8	X/Q (SRC 8)	2.64E-01	2.85E-01	3.07E-01	3.29E-01	3.51E-01	3.73E-01	3.95E-01	4.19E-01	4.44E-01	4.68E-01	4.89E-01	5.23E-01	5.50E-01	5.71E-01	5.95E-01
9	X/Q (SRC 9)	8.74E-01	9.54E-01	1.04E+00	1.13E+00	1.25E+00	1.38E+00	1.50E+00	1.62E+00	1.77E+00	1.96E+00	2.17E+00	2.34E+00	2.49E+00	2.58E+00	2.56E+00
10	X/Q (SRC 10)	1.09E+00	1.22E+00	1.36E+00	1.52E+00	1.69E+00	1.88E+00	2.09E+00	2.33E+00	2.59E+00	2.84E+00	3.04E+00	3.19E+00	3.27E+00	3.28E+00	3.20E+00
11	X/Q (SRC 11)	6.48E-01	6.98E-01	7.63E-01	8.33E-01	8.94E-01	9.50E-01	1.02E+00	1.11E+00	1.19E+00	1.27E+00	1.35E+00	1.46E+00	1.60E+00	1.76E+00	1.89E+00
12	X/Q (SRC 12)	7.83E-01	8.43E-01	8.99E-01	9.62E-01	1.04E+00	1.12E+00	1.19E+00	1.26E+00	1.36E+00	1.48E+00	1.63E+00	1.77E+00	1.86E+00	1.87E+00	1.84E+00
13	X/Q (SRC 13)	7.93E-01	8.52E-01	9.21E-01	9.84E-01	1.04E+00	1.11E+00	1.20E+00	1.31E+00	1.41E+00	1.49E+00	1.53E+00	1.54E+00	1.52E+00	1.49E+00	1.44E+00
14	X/Q (SRC 14)	8.22E-01	8.95E-01	9.76E-01	1.06E+00	1.16E+00	1.26E+00	1.37E+00	1.50E+00	1.63E+00	1.75E+00	1.85E+00	1.94E+00	1.99E+00	2.01E+00	1.99E+00
15	X/Q (SRC 15)	1.79E+00	2.01E+00	2.31E+00	2.62E+00	2.90E+00	3.22E+00	3.66E+00	4.05E+00	4.17E+00	4.03E+00	3.74E+00	3.44E+00	3.11E+00	2.82E+00	2.58E+00
16	X/Q (SRC 16)	4.73E-01	5.02E-01	5.26E-01	5.45E-01	5.68E-01	6.03E-01	6.45E-01	6.82E-01	7.11E-01	7.41E-01	7.70E-01	8.00E-01	8.55E-01	9.32E-01	1.01E+00
17	X/Q (SRC 17)	8.52E-01	9.19E-01	9.62E-01	1.01E+00	1.06E+00	1.14E+00	1.25E+00	1.37E+00	1.48E+00	1.58E+00	1.61E+00	1.58E+00	1.52E+00	1.45E+00	1.38E+00
18	X/Q (SRC 18)	8.25E-01	8.98E-01	9.79E-01	1.07E+00	1.16E+00	1.26E+00	1.37E+00	1.50E+00	1.63E+00	1.75E+00	1.85E+00	1.94E+00	1.99E+00	2.00E+00	1.98E+00
19	X/Q (SRC 19)	8.29E-01	9.01E-01	9.79E-01	1.06E+00	1.15E+00	1.24E+00	1.35E+00	1.47E+00	1.61E+00	1.73E+00	1.84E+00	1.92E+00	1.98E+00	2.00E+00	1.98E+00
20	X/Q (SRC 20)	3.30E-01	3.42E-01	3.54E-01	3.66E-01	3.78E-01	3.93E-01	4.10E-01	4.28E-01	4.44E-01	4.57E-01	4.68E-01	4.83E-01	5.00E-01	5.25E-01	5.59E-01
21	X/Q (SRC 21)	8.87E-01	9.55E-01	1.05E+00	1.13E+00	1.20E+00	1.26E+00	1.35E+00	1.48E+00	1.63E+00	1.76E+00	1.84E+00	1.86E+00	1.82E+00	1.73E+00	1.65E+00
22	X/Q (SRC 22)	6.91E-01	7.54E-01	8.17E-01	8.69E-01	9.24E-01	1.00E+00	1.09E+00	1.18E+00	1.25E+00	1.32E+00	1.42E+00	1.57E+00	1.72E+00	1.83E+00	1.88E+00
23	X/Q (SRC 23)	8.75E-01	9.54E-01	1.05E+00	1.13E+00	1.21E+00	1.30E+00	1.42E+00	1.55E+00	1.65E+00	1.69E+00	1.69E+00	1.66E+00	1.61E+00	1.56E+00	1.50E+00
24	X/Q (SRC 24)	8.61E-01	9.46E-01	1.04E+00	1.14E+00	1.25E+00	1.37E+00	1.48E+00	1.62E+00	1.78E+00	1.94E+00	2.06E+00	2.16E+00	2.21E+00	2.20E+00	2.16E+00
25	X/Q (SRC 25)	5.33E-01	5.70E-01	6.13E-01	6.55E-01	6.90E-01	7.24E-01	7.74E-01	8.36E-01	8.95E-01	9.42E-01	9.83E-01	1.03E+00	1.11E+00	1.21E+00	1.32E+00
26	X/Q (SRC 26)	8.67E-01	9.46E-01	1.03E+00	1.13E+00	1.25E+00	1.38E+00	1.51E+00	1.65E+00	1.80E+00	1.99E+00	2.19E+00	2.35E+00	2.49E+00	2.56E+00	2.54E+00
27	X/Q (SRC 27)	1.08E+00	1.21E+00	1.35E+00	1.51E+00	1.69E+00	1.89E+00	2.10E+00	2.35E+00	2.61E+00	2.86E+00	3.04E+00	3.19E+00	3.27E+00	3.26E+00	3.18E+00
28	X/Q (SRC 28)	6.49E-01	6.98E-01	7.56E-01	8.18E-01	8.81E-01	9.46E-01	1.02E+00	1.12E+00	1.21E+00	1.29E+00	1.37E+00	1.49E+00	1.63E+00	1.77E+00	1.89E+00
29	X/Q (SRC 29)	7.71E-01	8.30E-01	8.92E-01	9.63E-01	1.04E+00	1.13E+00	1.21E+00	1.29E+00	1.39E+00	1.51E+00	1.64E+00	1.77E+00	1.85E+00	1.85E+00	1.82E+00
30	X/Q (SRC 30)	7.88E-01	8.52E-01	9.24E-01	9.95E-01	1.06E+00	1.13E+00	1.22E+00	1.32E+00	1.42E+00	1.49E+00	1.52E+00	1.54E+00	1.52E+00	1.48E+00	1.44E+00
31	X/Q (SRC 31)	8.56E-01	9.24E-01	9.82E-01	1.03E+00	1.08E+00	1.16E+00	1.27E+00	1.39E+00	1.49E+00	1.57E+00	1.59E+00	1.55E+00	1.50E+00	1.44E+00	1.37E+00
32	X/Q (SRC 32)	2.43E+00	2.57E+00	2.66E+00	2.70E+00	2.69E+00	2.64E+00	2.56E+00	2.45E+00	2.32E+00	2.16E+00	1.99E+00	1.83E+00	1.67E+00	1.52E+00	1.39E+00
33	X/Q (SRC 33)	7.54E-01	8.35E-01	9.06E-01	9.23E-01	9.93E-01	1.02E+00	1.08E+00	1.21E+00	1.31E+00	1.46E+00	1.55E+00	1.60E+00	1.62E+00	1.55E+00	1.46E+00
34	X/Q (SRC 34)	1.71E+00	1.79E+00	2.07E+00	2.24E+00	2.45E+00	2.69E+00	3.10E+00	3.54E+00	3.77E+00	3.74E+00	3.47E+00	3.18E+00	2.85E+00	2.56E+00	2.39E+00
35	X/Q (SRC 35)	5.32E-01	6.03E-01	6.77E-01	7.10E-01	6.92E-01	7.01E-01	7.84E-01	8.40E-01	8.53E-01	9.15E-01	9.38E-01	9.81E-01	1.10E+00	1.19E+00	1.31E+00
36	X/Q (SRC 36)	1.43E+00	1.60E+00	1.79E+00	1.99E+00	2.22E+00	2.45E+00	2.71E+00	3.04E+00	3.38E+00	3.60E+00	3.61E+00	3.47E+00	3.22E+00	2.95E+00	2.69E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570
1	X/Q (SRC 1)	1.56E+00	1.45E+00	1.35E+00	1.26E+00	1.21E+00	1.16E+00	6.11E-01	6.75E-01	7.26E-01	7.49E-01	7.73E-01	8.38E-01	9.12E-01	9.57E-01	1.01E+00
2	X/Q (SRC 2)	1.22E+00	1.23E+00	1.21E+00	1.16E+00	1.12E+00	1.07E+00	3.94E-01	4.20E-01	4.54E-01	4.90E-01	5.12E-01	5.20E-01	5.29E-01	5.55E-01	5.95E-01
3	X/Q (SRC 3)	1.68E+00	1.72E+00	1.69E+00	1.62E+00	1.54E+00	1.46E+00	4.48E-01	4.67E-01	4.82E-01	5.04E-01	5.39E-01	5.91E-01	6.48E-01	6.81E-01	6.95E-01
4	X/Q (SRC 4)	1.89E+00	1.82E+00	1.72E+00	1.62E+00	1.52E+00	1.40E+00	5.02E-01	5.22E-01	5.44E-01	5.83E-01	6.43E-01	7.08E-01	7.48E-01	7.62E-01	8.04E-01
5	X/Q (SRC 5)	1.45E+00	1.39E+00	1.33E+00	1.27E+00	1.20E+00	1.14E+00	5.90E-01	6.37E-01	6.85E-01	7.25E-01	7.67E-01	8.33E-01	8.96E-01	9.47E-01	9.98E-01
6	X/Q (SRC 6)	2.10E+00	2.00E+00	1.90E+00	1.78E+00	1.67E+00	1.57E+00	5.87E-01	6.22E-01	6.56E-01	7.08E-01	7.79E-01	8.56E-01	9.22E-01	9.89E-01	1.06E+00
7	X/Q (SRC 7)	1.41E+00	1.47E+00	1.49E+00	1.47E+00	1.41E+00	1.35E+00	4.12E-01	4.25E-01	4.39E-01	4.60E-01	4.94E-01	5.39E-01	5.82E-01	6.08E-01	6.18E-01
8	X/Q (SRC 8)	6.16E-01	6.33E-01	6.39E-01	6.37E-01	6.35E-01	6.25E-01	1.95E-01	2.07E-01	2.20E-01	2.36E-01	2.52E-01	2.71E-01	2.90E-01	3.06E-01	3.24E-01
9	X/Q (SRC 9)	2.46E+00	2.30E+00	2.14E+00	1.98E+00	1.83E+00	1.70E+00	5.69E-01	6.17E-01	6.71E-01	7.29E-01	7.90E-01	8.51E-01	9.13E-01	9.94E-01	1.08E+00
10	X/Q (SRC 10)	3.04E+00	2.83E+00	2.62E+00	2.41E+00	2.22E+00	2.05E+00	6.63E-01	7.27E-01	7.98E-01	8.82E-01	9.72E-01	1.07E+00	1.17E+00	1.29E+00	1.42E+00
11	X/Q (SRC 11)	1.97E+00	1.97E+00	1.91E+00	1.82E+00	1.71E+00	1.60E+00	4.69E-01	4.98E-01	5.25E-01	5.55E-01	5.92E-01	6.41E-01	6.98E-01	7.47E-01	7.87E-01
12	X/Q (SRC 12)	1.77E+00	1.68E+00	1.57E+00	1.47E+00	1.38E+00	1.30E+00	5.32E-01	5.66E-01	6.08E-01	6.58E-01	7.07E-01	7.48E-01	7.89E-01	8.39E-01	9.00E-01
13	X/Q (SRC 13)	1.40E+00	1.34E+00	1.28E+00	1.22E+00	1.17E+00	1.11E+00	5.48E-01	5.89E-01	6.28E-01	6.64E-01	7.01E-01	7.50E-01	8.02E-01	8.45E-01	8.89E-01
14	X/Q (SRC 14)	1.94E+00	1.85E+00	1.75E+00	1.64E+00	1.54E+00	1.44E+00	5.54E-01	5.94E-01	6.37E-01	6.84E-01	7.36E-01	7.93E-01	8.57E-01	9.23E-01	9.92E-01
15	X/Q (SRC 15)	2.37E+00	2.18E+00	2.01E+00	1.84E+00	1.68E+00	1.53E+00	9.96E-01	1.09E+00	1.21E+00	1.36E+00	1.50E+00	1.67E+00	1.88E+00	2.09E+00	2.26E+00
16	X/Q (SRC 16)	1.07E+00	1.12E+00	1.15E+00	1.14E+00	1.12E+00	1.08E+00	3.60E-01	3.74E-01	3.95E-01	4.18E-01	4.44E-01	4.66E-01	4.80E-01	4.98E-01	5.19E-01
17	X/Q (SRC 17)	1.29E+00	1.21E+00	1.13E+00	1.08E+00	1.03E+00	9.96E-01	6.29E-01	6.50E-01	6.63E-01	7.01E-01	7.64E-01	8.07E-01	8.37E-01	8.84E-01	9.16E-01
18	X/Q (SRC 18)	1.92E+00	1.84E+00	1.74E+00	1.63E+00	1.53E+00	1.44E+00	5.56E-01	5.96E-01	6.39E-01	6.86E-01	7.38E-01	7.96E-01	8.59E-01	9.24E-01	9.94E-01
19	X/Q (SRC 19)	1.93E+00	1.84E+00	1.74E+00	1.63E+00	1.53E+00	1.43E+00	5.57E-01	5.98E-01	6.42E-01	6.90E-01	7.42E-01	7.98E-01	8.58E-01	9.20E-01	9.85E-01
20	X/Q (SRC 20)	5.97E-01	6.36E-01	6.71E-01	6.98E-01	7.16E-01	7.21E-01	2.72E-01	2.81E-01	2.90E-01	3.00E-01	3.11E-01	3.21E-01	3.31E-01	3.40E-01	3.51E-01
21	X/Q (SRC 21)	1.55E+00	1.46E+00	1.36E+00	1.28E+00	1.21E+00	1.16E+00	6.09E-01	6.58E-01	7.03E-01	7.41E-01	7.81E-01	8.43E-01	9.15E-01	9.74E-01	1.03E+00
22	X/Q (SRC 22)	1.86E+00	1.79E+00	1.71E+00	1.61E+00	1.51E+00	1.42E+00	4.99E-01	5.23E-01	5.49E-01	5.87E-01	6.34E-01	6.86E-01	7.29E-01	7.62E-01	8.12E-01
23	X/Q (SRC 23)	1.45E+00	1.39E+00	1.32E+00	1.26E+00	1.20E+00	1.13E+00	5.86E-01	6.29E-01	6.73E-01	7.18E-01	7.68E-01	8.34E-01	9.03E-01	9.62E-01	1.02E+00
24	X/Q (SRC 24)	2.09E+00	2.00E+00	1.89E+00	1.77E+00	1.67E+00	1.56E+00	5.81E-01	6.20E-01	6.59E-01	7.10E-01	7.71E-01	8.40E-01	9.10E-01	9.81E-01	1.06E+00
25	X/Q (SRC 25)	1.41E+00	1.47E+00	1.48E+00	1.45E+00	1.40E+00	1.34E+00	4.09E-01	4.26E-01	4.43E-01	4.65E-01	4.94E-01	5.30E-01	5.64E-01	5.93E-01	6.17E-01
26	X/Q (SRC 26)	2.44E+00	2.29E+00	2.14E+00	1.98E+00	1.84E+00	1.71E+00	5.72E-01	6.17E-01	6.68E-01	7.24E-01	7.82E-01	8.44E-01	9.08E-01	9.91E-01	1.08E+00
27	X/Q (SRC 27)	3.02E+00	2.82E+00	2.61E+00	2.39E+00	2.20E+00	2.03E+00	6.66E-01	7.29E-01	7.98E-01	8.77E-01	9.64E-01	1.06E+00	1.16E+00	1.28E+00	1.42E+00
28	X/Q (SRC 28)	1.95E+00	1.95E+00	1.89E+00	1.80E+00	1.70E+00	1.60E+00	4.66E-01	4.96E-01	5.25E-01	5.57E-01	5.93E-01	6.37E-01	6.86E-01	7.32E-01	7.79E-01
29	X/Q (SRC 29)	1.75E+00	1.67E+00	1.57E+00	1.47E+00	1.39E+00	1.31E+00	5.33E-01	5.66E-01	6.04E-01	6.48E-01	6.93E-01	7.39E-01	7.88E-01	8.42E-01	9.08E-01
30	X/Q (SRC 30)	1.39E+00	1.34E+00	1.28E+00	1.22E+00	1.16E+00	1.10E+00	5.44E-01	5.81E-01	6.18E-01	6.57E-01	6.99E-01	7.51E-01	8.07E-01	8.56E-01	9.04E-01
31	X/Q (SRC 31)	1.30E+00	1.22E+00	1.15E+00	1.09E+00	1.04E+00	9.94E-01	6.09E-01	6.39E-01	6.68E-01	7.09E-01	7.65E-01	8.16E-01	8.56E-01	9.00E-01	9.39E-01
32	X/Q (SRC 32)	1.27E+00	1.17E+00	1.07E+00	9.73E-01	8.93E-01	8.21E-01	1.29E+00	1.43E+00	1.59E+00	1.76E+00	1.92E+00	2.03E+00	2.11E+00	2.15E+00	2.16E+00
33	X/Q (SRC 33)	1.38E+00	1.30E+00	1.19E+00	1.10E+00	1.06E+00	1.03E+00	5.99E-01	6.58E-01	6.68E-01	6.46E-01	6.74E-01	7.56E-01	7.88E-01	8.06E-01	8.66E-01
34	X/Q (SRC 34)	2.25E+00	2.10E+00	1.95E+00	1.82E+00	1.70E+00	1.58E+00	9.16E-01	1.01E+00	1.19E+00	1.35E+00	1.38E+00	1.50E+00	1.69E+00	1.80E+00	1.94E+00
35	X/Q (SRC 35)	1.41E+00	1.46E+00	1.50E+00	1.46E+00	1.38E+00	1.31E+00	4.12E-01	4.20E-01	4.31E-01	4.60E-01	5.15E-01	5.79E-01	6.22E-01	6.17E-01	5.98E-01
36	X/Q (SRC 36)	2.46E+00	2.27E+00	2.11E+00	1.97E+00	1.83E+00	1.69E+00	8.44E-01	9.14E-01	1.00E+00	1.12E+00	1.24E+00	1.36E+00	1.49E+00	1.64E+00	1.79E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585
1	X/Q (SRC 1)	1.05E+00	1.11E+00	1.22E+00	1.34E+00	1.46E+00	1.56E+00	1.60E+00	1.60E+00	1.53E+00	1.46E+00	1.39E+00	1.31E+00	1.22E+00	1.14E+00	1.08E+00
2	X/Q (SRC 2)	6.28E-01	6.51E-01	6.76E-01	7.00E-01	7.25E-01	7.69E-01	8.31E-01	8.98E-01	9.66E-01	1.03E+00	1.07E+00	1.09E+00	1.08E+00	1.05E+00	1.01E+00
3	X/Q (SRC 3)	7.25E-01	7.88E-01	8.47E-01	8.86E-01	9.31E-01	9.66E-01	1.02E+00	1.12E+00	1.21E+00	1.33E+00	1.42E+00	1.47E+00	1.47E+00	1.43E+00	1.37E+00
4	X/Q (SRC 4)	8.83E-01	9.45E-01	9.90E-01	1.04E+00	1.09E+00	1.17E+00	1.29E+00	1.42E+00	1.53E+00	1.60E+00	1.61E+00	1.58E+00	1.51E+00	1.43E+00	1.36E+00
5	X/Q (SRC 5)	1.06E+00	1.16E+00	1.27E+00	1.36E+00	1.42E+00	1.44E+00	1.43E+00	1.40E+00	1.36E+00	1.32E+00	1.28E+00	1.23E+00	1.19E+00	1.14E+00	1.09E+00
6	X/Q (SRC 6)	1.14E+00	1.23E+00	1.32E+00	1.43E+00	1.56E+00	1.68E+00	1.77E+00	1.83E+00	1.85E+00	1.84E+00	1.80E+00	1.73E+00	1.65E+00	1.56E+00	1.48E+00
7	X/Q (SRC 7)	6.41E-01	6.90E-01	7.40E-01	7.72E-01	8.05E-01	8.39E-01	8.73E-01	9.37E-01	1.02E+00	1.11E+00	1.20E+00	1.27E+00	1.30E+00	1.29E+00	1.26E+00
8	X/Q (SRC 8)	3.44E-01	3.63E-01	3.81E-01	4.01E-01	4.22E-01	4.39E-01	4.62E-01	4.86E-01	5.02E-01	5.23E-01	5.40E-01	5.55E-01	5.65E-01	5.64E-01	5.63E-01
9	X/Q (SRC 9)	1.17E+00	1.26E+00	1.35E+00	1.45E+00	1.58E+00	1.74E+00	1.90E+00	2.03E+00	2.12E+00	2.13E+00	2.07E+00	1.97E+00	1.85E+00	1.73E+00	1.61E+00
10	X/Q (SRC 10)	1.55E+00	1.70E+00	1.86E+00	2.05E+00	2.24E+00	2.40E+00	2.53E+00	2.62E+00	2.65E+00	2.62E+00	2.53E+00	2.39E+00	2.23E+00	2.07E+00	1.92E+00
11	X/Q (SRC 11)	8.30E-01	8.91E-01	9.59E-01	1.02E+00	1.08E+00	1.14E+00	1.22E+00	1.33E+00	1.45E+00	1.57E+00	1.65E+00	1.67E+00	1.65E+00	1.59E+00	1.51E+00
12	X/Q (SRC 12)	9.62E-01	1.02E+00	1.07E+00	1.14E+00	1.24E+00	1.35E+00	1.47E+00	1.56E+00	1.59E+00	1.58E+00	1.54E+00	1.48E+00	1.40E+00	1.32E+00	1.24E+00
13	X/Q (SRC 13)	9.40E-01	1.01E+00	1.09E+00	1.18E+00	1.25E+00	1.30E+00	1.32E+00	1.32E+00	1.30E+00	1.27E+00	1.23E+00	1.20E+00	1.15E+00	1.10E+00	1.05E+00
14	X/Q (SRC 14)	1.07E+00	1.15E+00	1.25E+00	1.35E+00	1.44E+00	1.53E+00	1.60E+00	1.66E+00	1.68E+00	1.68E+00	1.65E+00	1.60E+00	1.53E+00	1.45E+00	1.37E+00
15	X/Q (SRC 15)	2.49E+00	2.80E+00	3.10E+00	3.26E+00	3.23E+00	3.07E+00	2.86E+00	2.64E+00	2.41E+00	2.21E+00	2.05E+00	1.91E+00	1.78E+00	1.66E+00	1.54E+00
16	X/Q (SRC 16)	5.49E-01	5.82E-01	6.11E-01	6.34E-01	6.55E-01	6.82E-01	7.13E-01	7.54E-01	8.15E-01	8.76E-01	9.36E-01	9.84E-01	1.01E+00	1.02E+00	1.00E+00
17	X/Q (SRC 17)	9.71E-01	1.06E+00	1.15E+00	1.25E+00	1.33E+00	1.38E+00	1.39E+00	1.34E+00	1.29E+00	1.23E+00	1.17E+00	1.11E+00	1.04E+00	9.77E-01	9.33E-01
18	X/Q (SRC 18)	1.07E+00	1.15E+00	1.25E+00	1.35E+00	1.45E+00	1.53E+00	1.60E+00	1.66E+00	1.68E+00	1.68E+00	1.65E+00	1.59E+00	1.52E+00	1.44E+00	1.36E+00
19	X/Q (SRC 19)	1.05E+00	1.13E+00	1.23E+00	1.33E+00	1.43E+00	1.51E+00	1.59E+00	1.65E+00	1.68E+00	1.68E+00	1.65E+00	1.59E+00	1.52E+00	1.44E+00	1.36E+00
20	X/Q (SRC 20)	3.65E-01	3.81E-01	3.95E-01	4.08E-01	4.19E-01	4.28E-01	4.39E-01	4.55E-01	4.76E-01	5.05E-01	5.36E-01	5.70E-01	6.03E-01	6.29E-01	6.47E-01
21	X/Q (SRC 21)	1.08E+00	1.14E+00	1.24E+00	1.36E+00	1.47E+00	1.55E+00	1.59E+00	1.57E+00	1.51E+00	1.45E+00	1.38E+00	1.31E+00	1.23E+00	1.15E+00	1.09E+00
22	X/Q (SRC 22)	8.83E-01	9.54E-01	1.01E+00	1.06E+00	1.12E+00	1.20E+00	1.31E+00	1.43E+00	1.53E+00	1.59E+00	1.59E+00	1.56E+00	1.50E+00	1.42E+00	1.35E+00
23	X/Q (SRC 23)	1.08E+00	1.18E+00	1.28E+00	1.37E+00	1.42E+00	1.43E+00	1.42E+00	1.40E+00	1.36E+00	1.32E+00	1.28E+00	1.23E+00	1.18E+00	1.13E+00	1.08E+00
24	X/Q (SRC 24)	1.15E+00	1.24E+00	1.34E+00	1.46E+00	1.58E+00	1.69E+00	1.77E+00	1.83E+00	1.84E+00	1.83E+00	1.79E+00	1.72E+00	1.65E+00	1.56E+00	1.47E+00
25	X/Q (SRC 25)	6.49E-01	6.94E-01	7.44E-01	7.87E-01	8.21E-01	8.55E-01	8.96E-01	9.57E-01	1.04E+00	1.12E+00	1.20E+00	1.26E+00	1.29E+00	1.27E+00	1.24E+00
26	X/Q (SRC 26)	1.18E+00	1.27E+00	1.37E+00	1.48E+00	1.61E+00	1.77E+00	1.92E+00	2.03E+00	2.10E+00	2.11E+00	2.05E+00	1.96E+00	1.85E+00	1.73E+00	1.61E+00
27	X/Q (SRC 27)	1.56E+00	1.71E+00	1.89E+00	2.08E+00	2.26E+00	2.41E+00	2.54E+00	2.62E+00	2.64E+00	2.60E+00	2.51E+00	2.38E+00	2.22E+00	2.07E+00	1.92E+00
28	X/Q (SRC 28)	8.32E-01	8.96E-01	9.68E-01	1.04E+00	1.10E+00	1.16E+00	1.24E+00	1.35E+00	1.47E+00	1.57E+00	1.64E+00	1.66E+00	1.63E+00	1.57E+00	1.50E+00
29	X/Q (SRC 29)	9.75E-01	1.03E+00	1.09E+00	1.17E+00	1.26E+00	1.37E+00	1.47E+00	1.55E+00	1.57E+00	1.56E+00	1.52E+00	1.46E+00	1.39E+00	1.32E+00	1.24E+00
30	X/Q (SRC 30)	9.58E-01	1.03E+00	1.11E+00	1.19E+00	1.26E+00	1.30E+00	1.32E+00	1.32E+00	1.29E+00	1.27E+00	1.23E+00	1.19E+00	1.15E+00	1.10E+00	1.05E+00
31	X/Q (SRC 31)	9.95E-01	1.08E+00	1.17E+00	1.26E+00	1.33E+00	1.37E+00	1.37E+00	1.33E+00	1.28E+00	1.23E+00	1.17E+00	1.11E+00	1.05E+00	9.91E-01	9.43E-01
32	X/Q (SRC 32)	2.14E+00	2.09E+00	2.02E+00	1.93E+00	1.82E+00	1.70E+00	1.58E+00	1.47E+00	1.36E+00	1.26E+00	1.16E+00	1.08E+00	1.00E+00	9.25E-01	8.57E-01
33	X/Q (SRC 33)	8.79E-01	9.27E-01	1.04E+00	1.11E+00	1.22E+00	1.32E+00	1.36E+00	1.40E+00	1.38E+00	1.31E+00	1.24E+00	1.18E+00	1.11E+00	1.02E+00	9.52E-01
34	X/Q (SRC 34)	2.11E+00	2.40E+00	2.72E+00	2.94E+00	3.01E+00	2.88E+00	2.68E+00	2.47E+00	2.21E+00	2.02E+00	1.90E+00	1.82E+00	1.72E+00	1.61E+00	1.51E+00
35	X/Q (SRC 35)	6.35E-01	7.09E-01	7.34E-01	7.47E-01	8.03E-01	8.12E-01	8.50E-01	9.49E-01	1.02E+00	1.11E+00	1.21E+00	1.25E+00	1.29E+00	1.30E+00	1.24E+00
36	X/Q (SRC 36)	1.94E+00	2.13E+00	2.36E+00	2.62E+00	2.82E+00	2.90E+00	2.84E+00	2.69E+00	2.50E+00	2.30E+00	2.12E+00	1.96E+00	1.83E+00	1.72E+00	1.62E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601
1	X/Q (SRC 1)	1.04E+00	1.89E+00	2.27E+00	2.74E+00	3.32E+00	3.96E+00	4.65E+00	5.37E+00	6.14E+00	6.95E+00	7.74E+00	8.38E+00	8.73E+00	8.77E+00	8.60E+00	8.25E+00
2	X/Q (SRC 2)	9.71E-01	1.86E+01	2.68E+01	3.58E+01	4.27E+01	4.40E+01	4.02E+01	3.37E+01	2.71E+01	2.16E+01	1.73E+01	1.41E+01	1.17E+01	9.76E+00	8.23E+00	7.00E+00
3	X/Q (SRC 3)	1.30E+00	5.26E+00	7.42E+00	1.08E+01	1.63E+01	2.68E+01	5.00E+01	9.20E+01	1.31E+02	1.32E+02	1.00E+02	7.06E+01	4.98E+01	3.58E+01	2.62E+01	1.96E+01
4	X/Q (SRC 4)	1.27E+00	3.70E+00	4.42E+00	5.21E+00	6.42E+00	8.72E+00	1.27E+01	1.85E+01	2.52E+01	3.19E+01	3.66E+01	3.77E+01	3.55E+01	3.08E+01	2.53E+01	2.05E+01
5	X/Q (SRC 5)	1.04E+00	1.16E+01	2.58E+01	6.92E+01	5.99E+01	3.79E+01	2.48E+01	1.77E+01	1.35E+01	1.09E+01	9.23E+00	8.09E+00	7.29E+00	6.69E+00	6.20E+00	5.80E+00
6	X/Q (SRC 6)	1.40E+00	3.02E+00	4.09E+00	5.97E+00	9.79E+00	2.07E+01	7.40E+01	8.87E+01	6.03E+01	4.47E+01	3.60E+01	3.10E+01	2.76E+01	2.47E+01	2.19E+01	1.91E+01
7	X/Q (SRC 7)	1.21E+00	1.05E+01	1.76E+01	3.32E+01	7.84E+01	1.87E+02	2.74E+02	2.71E+02	1.76E+02	1.02E+02	6.20E+01	4.08E+01	2.85E+01	2.07E+01	1.55E+01	1.20E+01
8	X/Q (SRC 8)	5.59E-01	1.89E+00	2.11E+00	2.24E+00	2.28E+00	2.41E+00	3.13E+00	3.71E+00	3.87E+00	3.92E+00	3.83E+00	3.69E+00	3.52E+00	3.30E+00	3.04E+00	2.72E+00
9	X/Q (SRC 9)	1.50E+00	1.96E+00	2.36E+00	2.85E+00	3.47E+00	4.27E+00	5.32E+00	6.62E+00	8.22E+00	1.00E+01	1.23E+01	1.59E+01	2.32E+01	3.65E+01	4.62E+01	5.03E+01
10	X/Q (SRC 10)	1.79E+00	1.11E+00	1.27E+00	1.45E+00	1.67E+00	1.95E+00	2.33E+00	2.84E+00	3.53E+00	4.53E+00	6.06E+00	8.76E+00	1.44E+01	2.94E+01	5.52E+01	7.14E+01
11	X/Q (SRC 11)	1.42E+00	4.51E+00	6.70E+00	1.10E+01	2.26E+01	5.21E+01	7.76E+01	9.21E+01	9.73E+01	9.80E+01	9.67E+01	9.66E+01	9.53E+01	8.45E+01	6.00E+01	4.03E+01
12	X/Q (SRC 12)	1.17E+00	3.76E+00	4.74E+00	6.21E+00	8.27E+00	1.08E+01	1.35E+01	1.56E+01	1.68E+01	1.72E+01	1.70E+01	1.67E+01	1.64E+01	1.59E+01	1.50E+01	1.38E+01
13	X/Q (SRC 13)	1.01E+00	1.86E+01	3.27E+01	4.21E+01	4.38E+01	3.35E+01	2.36E+01	1.78E+01	1.42E+01	1.18E+01	1.01E+01	8.97E+00	8.14E+00	7.48E+00	6.91E+00	6.39E+00
14	X/Q (SRC 14)	1.29E+00	7.16E+00	1.21E+01	1.60E+01	1.85E+01	2.05E+01	2.23E+01	2.37E+01	2.41E+01	2.41E+01	2.40E+01	2.42E+01	2.49E+01	2.56E+01	2.59E+01	2.53E+01
15	X/Q (SRC 15)	1.43E+00	8.35E-01	8.73E-01	9.13E-01	9.66E-01	1.05E+00	1.17E+00	1.34E+00	1.54E+00	1.79E+00	2.08E+00	2.43E+00	2.82E+00	3.24E+00	3.67E+00	4.12E+00
16	X/Q (SRC 16)	9.79E-01	7.99E+01	1.74E+02	1.89E+02	1.29E+02	8.34E+01	5.56E+01	3.86E+01	2.82E+01	2.10E+01	1.59E+01	1.25E+01	9.95E+00	8.10E+00	6.59E+00	5.53E+00
17	X/Q (SRC 17)	9.00E-01	2.27E+00	2.68E+00	3.08E+00	3.49E+00	3.94E+00	4.45E+00	4.97E+00	5.50E+00	5.89E+00	6.15E+00	6.26E+00	6.24E+00	6.10E+00	5.85E+00	5.54E+00
18	X/Q (SRC 18)	1.28E+00	6.97E+00	1.16E+01	1.54E+01	1.78E+01	1.98E+01	2.15E+01	2.29E+01	2.34E+01	2.34E+01	2.32E+01	2.35E+01	2.41E+01	2.48E+01	2.51E+01	2.46E+01
19	X/Q (SRC 19)	1.28E+00	7.95E+00	1.39E+01	1.81E+01	2.06E+01	2.26E+01	2.45E+01	2.60E+01	2.65E+01	2.64E+01	2.61E+01	2.63E+01	2.71E+01	2.79E+01	2.82E+01	2.76E+01
20	X/Q (SRC 20)	6.57E-01	1.31E+02	1.17E+02	9.61E+01	3.61E+01	1.90E+01	1.19E+01	8.32E+00	6.21E+00	4.85E+00	3.92E+00	3.27E+00	2.80E+00	2.42E+00	2.12E+00	1.87E+00
21	X/Q (SRC 21)	1.04E+00	1.97E+00	2.35E+00	2.83E+00	3.39E+00	4.03E+00	4.70E+00	5.41E+00	6.15E+00	6.88E+00	7.53E+00	8.06E+00	8.37E+00	8.44E+00	8.28E+00	7.93E+00
22	X/Q (SRC 22)	1.28E+00	3.51E+00	4.23E+00	5.13E+00	6.48E+00	8.78E+00	1.26E+01	1.81E+01	2.44E+01	3.05E+01	3.44E+01	3.54E+01	3.34E+01	2.93E+01	2.45E+01	2.00E+01
23	X/Q (SRC 23)	1.03E+00	1.08E+01	2.09E+01	4.84E+01	4.79E+01	3.35E+01	2.31E+01	1.69E+01	1.31E+01	1.06E+01	9.02E+00	7.94E+00	7.17E+00	6.59E+00	6.12E+00	5.72E+00
24	X/Q (SRC 24)	1.39E+00	2.95E+00	3.91E+00	5.57E+00	8.82E+00	1.70E+01	4.93E+01	6.60E+01	5.12E+01	4.03E+01	3.34E+01	2.92E+01	2.63E+01	2.36E+01	2.10E+01	1.84E+01
25	X/Q (SRC 25)	1.20E+00	9.92E+00	1.63E+01	2.95E+01	6.42E+01	1.43E+02	2.11E+02	2.16E+02	1.51E+02	9.21E+01	5.78E+01	3.88E+01	2.75E+01	2.02E+01	1.52E+01	1.18E+01
26	X/Q (SRC 26)	1.51E+00	1.96E+00	2.36E+00	2.86E+00	3.47E+00	4.27E+00	5.29E+00	6.55E+00	8.09E+00	9.80E+00	1.19E+01	1.51E+01	2.12E+01	3.17E+01	4.01E+01	4.39E+01
27	X/Q (SRC 27)	1.79E+00	1.10E+00	1.26E+00	1.44E+00	1.66E+00	1.94E+00	2.31E+00	2.82E+00	3.49E+00	4.45E+00	5.90E+00	8.40E+00	1.33E+01	2.49E+01	4.42E+01	5.77E+01
28	X/Q (SRC 28)	1.42E+00	4.35E+00	6.35E+00	1.01E+01	1.90E+01	4.00E+01	6.03E+01	7.34E+01	7.88E+01	8.08E+01	8.07E+01	8.11E+01	8.03E+01	7.24E+01	5.43E+01	3.79E+01
29	X/Q (SRC 29)	1.18E+00	3.77E+00	4.76E+00	6.20E+00	8.20E+00	1.06E+01	1.31E+01	1.51E+01	1.62E+01	1.65E+01	1.64E+01	1.61E+01	1.58E+01	1.53E+01	1.45E+01	1.33E+01
30	X/Q (SRC 30)	1.01E+00	1.57E+01	2.61E+01	3.38E+01	3.59E+01	2.94E+01	2.19E+01	1.69E+01	1.36E+01	1.14E+01	9.84E+00	8.76E+00	7.96E+00	7.32E+00	6.77E+00	6.25E+00
31	X/Q (SRC 31)	9.05E-01	2.30E+00	2.74E+00	3.13E+00	3.53E+00	3.97E+00	4.45E+00	4.93E+00	5.39E+00	5.72E+00	5.94E+00	6.03E+00	6.02E+00	5.90E+00	5.65E+00	5.36E+00
32	X/Q (SRC 32)	7.95E-01	4.63E-01	4.95E-01	5.30E-01	5.70E-01	6.15E-01	6.67E-01	7.26E-01	7.94E-01	8.70E-01	9.56E-01	1.06E+00	1.17E+00	1.30E+00	1.43E+00	1.56E+00
33	X/Q (SRC 33)	9.15E-01	2.46E+00	3.03E+00	3.64E+00	4.24E+00	4.92E+00	5.72E+00	6.64E+00	7.65E+00	8.47E+00	8.80E+00	8.77E+00	8.61E+00	8.31E+00	7.78E+00	7.08E+00
34	X/Q (SRC 34)	1.43E+00	8.54E-01	8.57E-01	8.77E-01	9.35E-01	1.05E+00	1.21E+00	1.39E+00	1.60E+00	1.87E+00	2.22E+00	2.61E+00	3.01E+00	3.43E+00	3.90E+00	4.41E+00
35	X/Q (SRC 35)	1.18E+00	1.08E+01	1.62E+01	2.56E+01	4.77E+01	9.20E+01	1.38E+02	1.42E+02	1.09E+02	7.48E+01	5.08E+01	3.59E+01	2.62E+01	1.97E+01	1.51E+01	1.18E+01
36	X/Q (SRC 36)	1.52E+00	1.08E+00	1.16E+00	1.23E+00	1.30E+00	1.39E+00	1.54E+00	1.76E+00	2.06E+00	2.47E+00	2.99E+00	3.63E+00	4.39E+00	5.22E+00	6.10E+00	7.04E+00

ASCON Health Risk Assessment

Supplemental HRA Dilution Factors - Alternative 6

	Rec	602	603	604	605	606	607
1	X/Q (SRC 1)	7.73E+00	7.07E+00	6.36E+00	5.68E+00	5.06E+00	4.54E+00
2	X/Q (SRC 2)	6.01E+00	5.19E+00	4.52E+00	3.96E+00	3.49E+00	3.09E+00
3	X/Q (SRC 3)	1.51E+01	1.19E+01	9.55E+00	7.78E+00	6.44E+00	5.39E+00
4	X/Q (SRC 4)	1.67E+01	1.37E+01	1.14E+01	9.52E+00	8.05E+00	6.86E+00
5	X/Q (SRC 5)	5.45E+00	5.12E+00	4.80E+00	4.47E+00	4.16E+00	3.88E+00
6	X/Q (SRC 6)	1.66E+01	1.45E+01	1.25E+01	1.09E+01	9.45E+00	8.22E+00
7	X/Q (SRC 7)	9.44E+00	7.61E+00	6.24E+00	5.19E+00	4.40E+00	3.82E+00
8	X/Q (SRC 8)	2.44E+00	2.18E+00	1.94E+00	1.73E+00	1.55E+00	1.40E+00
9	X/Q (SRC 9)	4.74E+01	3.82E+01	2.83E+01	2.12E+01	1.64E+01	1.33E+01
10	X/Q (SRC 10)	7.79E+01	6.92E+01	4.88E+01	3.42E+01	2.55E+01	1.99E+01
11	X/Q (SRC 11)	2.81E+01	2.05E+01	1.55E+01	1.20E+01	9.55E+00	7.83E+00
12	X/Q (SRC 12)	1.24E+01	1.09E+01	9.47E+00	8.20E+00	7.11E+00	6.19E+00
13	X/Q (SRC 13)	5.91E+00	5.45E+00	5.01E+00	4.60E+00	4.20E+00	3.83E+00
14	X/Q (SRC 14)	2.42E+01	2.11E+01	1.64E+01	1.27E+01	1.01E+01	8.41E+00
15	X/Q (SRC 15)	4.59E+00	5.06E+00	5.50E+00	5.84E+00	6.04E+00	6.12E+00
16	X/Q (SRC 16)	4.67E+00	4.00E+00	3.46E+00	3.02E+00	2.66E+00	2.38E+00
17	X/Q (SRC 17)	5.15E+00	4.73E+00	4.31E+00	3.90E+00	3.54E+00	3.26E+00
18	X/Q (SRC 18)	2.35E+01	2.07E+01	1.62E+01	1.26E+01	1.01E+01	8.34E+00
19	X/Q (SRC 19)	2.63E+01	2.26E+01	1.70E+01	1.29E+01	1.02E+01	8.43E+00
20	X/Q (SRC 20)	1.67E+00	1.50E+00	1.36E+00	1.24E+00	1.13E+00	1.04E+00
21	X/Q (SRC 21)	7.44E+00	6.85E+00	6.21E+00	5.59E+00	5.02E+00	4.52E+00
22	X/Q (SRC 22)	1.64E+01	1.35E+01	1.12E+01	9.38E+00	7.93E+00	6.75E+00
23	X/Q (SRC 23)	5.36E+00	5.03E+00	4.71E+00	4.39E+00	4.09E+00	3.82E+00
24	X/Q (SRC 24)	1.61E+01	1.40E+01	1.22E+01	1.06E+01	9.27E+00	8.07E+00
25	X/Q (SRC 25)	9.38E+00	7.59E+00	6.25E+00	5.21E+00	4.42E+00	3.85E+00
26	X/Q (SRC 26)	4.21E+01	3.50E+01	2.68E+01	2.04E+01	1.60E+01	1.30E+01
27	X/Q (SRC 27)	6.40E+01	5.89E+01	4.43E+01	3.22E+01	2.44E+01	1.93E+01
28	X/Q (SRC 28)	2.71E+01	2.00E+01	1.52E+01	1.18E+01	9.44E+00	7.77E+00
29	X/Q (SRC 29)	1.20E+01	1.06E+01	9.27E+00	8.07E+00	7.01E+00	6.11E+00
30	X/Q (SRC 30)	5.79E+00	5.34E+00	4.92E+00	4.52E+00	4.14E+00	3.78E+00
31	X/Q (SRC 31)	5.00E+00	4.62E+00	4.23E+00	3.86E+00	3.52E+00	3.25E+00
32	X/Q (SRC 32)	1.70E+00	1.85E+00	1.99E+00	2.13E+00	2.23E+00	2.30E+00
33	X/Q (SRC 33)	6.30E+00	5.59E+00	4.94E+00	4.37E+00	3.90E+00	3.58E+00
34	X/Q (SRC 34)	5.00E+00	5.66E+00	6.25E+00	6.55E+00	6.57E+00	6.48E+00
35	X/Q (SRC 35)	9.45E+00	7.66E+00	6.31E+00	5.25E+00	4.45E+00	3.85E+00
36	X/Q (SRC 36)	7.99E+00	8.82E+00	9.35E+00	9.50E+00	9.36E+00	9.04E+00

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	100-41-4	Ethylbenzene	2.66E-04	No	3.8E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	100-42-5	Styrene	3.76E-05	No	5.4E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	103-65-1	n-Propylbenzene	1.77E-04	No	2.5E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	104-51-8	n-Butylbenzene	2.07E-05	No	3.0E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-67-8	1,3,5-Trimethylbenzene	1.26E-04	No	1.8E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-88-3	Toluene	8.55E-05	No	1.2E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	11096-82-5	Aroclor 1260	1.19E-05	No	1.7E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	120-12-7	Anthracene	5.33E-04	No	7.7E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	129-00-0	Pyrene	1.48E-04	No	2.1E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1330-20-7	XYLENES (TOTAL)	1.71E-03	No	2.5E-08	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	135-98-8	(1-METHYLPROPYL)BENZENE	1.42E-04	No	2.0E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	179601-23-1	m,p-Xylenes	2.51E-04	No	3.6E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	67-64-1	2-PROPANONE	2.39E-05	No	3.4E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	71-43-2	Benzene	2.13E-05	No	3.1E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	7421-93-4	Endrin aldehyde	6.64E-07	No	9.6E-12	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	7439-98-7	Molybdenum	4.36E-04	No	6.3E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-09-2	Methylene Chloride	2.04E-06	No	2.9E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-69-4	Trichlorofluoromethane	1.79E-05	No	2.6E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	78-93-3	2-Butanone	4.70E-06	No	6.8E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	83-32-9	Acenaphthene	7.21E-04	No	1.0E-08	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	85-01-8	Phenanthrene	3.23E-02	No	4.6E-07	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	86-73-7	Fluorene	6.58E-04	No	9.5E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	91-20-3	Naphthalene	3.88E-04	No	5.6E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	91-57-6	2-Methylnaphthalene	1.56E-03	No	2.2E-08	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-47-6	o-Xylene	4.73E-05	No	6.8E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-50-1	1,2-Dichlorobenzene	1.10E-04	No	1.6E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-63-6	1,2,4-Trimethylbenzene	3.66E-04	No	5.3E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	98-82-8	1-METHYLETHYLBENZENE	1.21E-04	No	1.7E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1031-07-8	Endosulfan sulfate	1.35E-06	No	1.9E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-42-3	P-XYLENE	1.75E-05	No	2.5E-10	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-93-4	1,2-Dibromoethane	1.91E-06	No	2.7E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-38-3	M-XYLENE	2.04E-04	No	2.9E-09	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-90-7	Chlorobenzene	6.27E-07	No	9.0E-12	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	11097-69-1	Aroclor 1254	4.70E-06	No	6.8E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	120-82-1	1,2,4-Trichlorobenzene	3.13E-07	No	4.5E-12	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	127-18-4	Tetrachloroethene	2.44E-06	No	3.5E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	33213-65-9	Endosulfan II	3.45E-06	No	5.0E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	5103-74-2	GAMMA-CHLORDANE	5.33E-06	No	7.7E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	53494-70-5	Endrin ketone	7.52E-07	No	1.1E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	591-78-6	2-Hexanone	1.07E-06	No	1.5E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-35-4	1,1-Dichloroethene	1.35E-06	No	1.9E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	79-34-5	1,1,2,2-Tetrachloroethane	9.09E-07	No	1.3E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	87-61-6	1,2,3-Trichlorobenzene	4.07E-07	No	5.9E-12	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	96-12-8	1,2-Dibromo-3-Chloropropane	1.85E-06	No	2.7E-11	14	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
2_1	100-41-4	Ethylbenzene	1.10E-04	No	1.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	100-42-5	Styrene	1.55E-05	No	2.2E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	103-65-1	n-Propylbenzene	7.28E-05	No	1.0E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	104-51-8	n-Butylbenzene	8.50E-06	No	1.2E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-67-8	1,3,5-Trimethylbenzene	5.19E-05	No	7.5E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-88-3	Toluene	3.52E-05	No	5.1E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	11096-82-5	Aroclor 1260	4.89E-06	No	7.0E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	120-12-7	Anthracene	2.19E-04	No	3.2E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	129-00-0	Pyrene	6.08E-05	No	8.7E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1330-20-7	XYLENES (TOTAL)	7.04E-04	No	1.0E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	135-98-8	(1-METHYLPROPYL)BENZENE	5.84E-05	No	8.4E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	179601-23-1	m,p-Xylenes	1.03E-04	No	1.5E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	67-64-1	2-PROPANONE	9.86E-06	No	1.4E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	71-43-2	Benzene	8.79E-06	No	1.3E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	7421-93-4	Endrin aldehyde	2.73E-07	No	3.9E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	7439-98-7	Molybdenum	1.79E-04	No	2.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-09-2	Methylene Chloride	8.40E-07	No	1.2E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-69-4	Trichlorofluoromethane	7.35E-06	No	1.1E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	78-93-3	2-Butanone	1.94E-06	No	2.8E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	83-32-9	Acenaphthene	2.97E-04	No	4.3E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	85-01-8	Phenanthrene	1.33E-02	No	1.9E-07	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	86-73-7	Fluorene	2.71E-04	No	3.9E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	91-20-3	Naphthalene	1.60E-04	No	2.3E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	91-57-6	2-Methylnaphthalene	6.41E-04	No	9.2E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
2_1	95-47-6	o-Xylene	1.95E-05	No	2.8E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	95-50-1	1,2-Dichlorobenzene	4.52E-05	No	6.5E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	95-63-6	1,2,4-Trimethylbenzene	1.51E-04	No	2.2E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	98-82-8	1-METHYLETHYLBENZENE	4.98E-05	No	7.2E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1031-07-8	Endosulfan sulfate	5.55E-07	No	8.0E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-42-3	P-XYLENE	7.22E-06	No	1.0E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-93-4	1,2-Dibromoethane	7.87E-07	No	1.1E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-38-3	M-XYLENE	8.39E-05	No	1.2E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-90-7	Chlorobenzene	2.58E-07	No	3.7E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	11097-69-1	Aroclor 1254	1.94E-06	No	2.8E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	120-82-1	1,2,4-Trichlorobenzene	1.29E-07	No	1.9E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	127-18-4	Tetrachloroethene	1.01E-06	No	1.4E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	33213-65-9	Endosulfan II	1.42E-06	No	2.0E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	5103-74-2	GAMMA-CHLORDANE	2.19E-06	No	3.2E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	53494-70-5	Endrin ketone	3.10E-07	No	4.5E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	591-78-6	2-Hexanone	4.39E-07	No	6.3E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-35-4	1,1-Dichloroethene	5.55E-07	No	8.0E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	79-34-5	1,1,2,2-Tetrachloroethane	3.74E-07	No	5.4E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	87-61-6	1,2,3-Trichlorobenzene	1.68E-07	No	2.4E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	96-12-8	1,2-Dibromo-3-Chloropropane	7.61E-07	No	1.1E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_2	100-41-4	Ethylbenzene	1.02E-07	No	1.5E-12	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	100-42-5	Styrene	1.18E-06	No	1.7E-11	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	135-98-8	(1-METHYLPROPYL)BENZENE	1.14E-06	No	1.6E-11	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	67-64-1	2-PROPANONE	3.87E-08	No	5.6E-13	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	78-93-3	2-Butanone	1.75E-07	No	2.5E-12	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	85-01-8	Phenanthrene	2.24E-03	No	3.2E-08	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	91-20-3	Naphthalene	6.93E-06	No	1.0E-10	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
2_2	95-63-6	1,2,4-Trimethylbenzene	1.02E-07	No	1.5E-12	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
3_1	100-41-4	Ethylbenzene	5.70E-04	No	8.2E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	100-42-5	Styrene	8.06E-05	No	1.2E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	103-65-1	n-Propylbenzene	3.79E-04	No	5.5E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	104-51-8	n-Butylbenzene	4.43E-05	No	6.4E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	108-67-8	1,3,5-Trimethylbenzene	2.70E-04	No	3.9E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	108-88-3	Toluene	1.83E-04	No	2.6E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	11096-82-5	Aroclor 1260	2.55E-05	No	3.7E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	120-12-7	Anthracene	1.14E-03	No	1.6E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	129-00-0	Pyrene	3.16E-04	No	4.6E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	1330-20-7	XYLENES (TOTAL)	3.67E-03	No	5.3E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	135-98-8	(1-METHYLPROPYL)BENZENE	3.04E-04	No	4.4E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	179601-23-1	m,p-Xylenes	5.38E-04	No	7.7E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	67-64-1	2-PROPANONE	5.13E-05	No	7.4E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	71-43-2	Benzene	4.58E-05	No	6.6E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	7421-93-4	Endrin aldehyde	1.42E-06	No	2.0E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	7439-98-7	Molybdenum	9.35E-04	No	1.3E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	75-09-2	Methylene Chloride	4.37E-06	No	6.3E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	75-69-4	Trichlorofluoromethane	3.83E-05	No	5.5E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	78-93-3	2-Butanone	1.01E-05	No	1.4E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	83-32-9	Acenaphthene	1.55E-03	No	2.2E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	85-01-8	Phenanthrene	6.93E-02	No	1.0E-06	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	86-73-7	Fluorene	1.41E-03	No	2.0E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	91-20-3	Naphthalene	8.31E-04	No	1.2E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	91-57-6	2-Methylnaphthalene	3.34E-03	No	4.8E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	95-47-6	o-Xylene	1.01E-04	No	1.5E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	95-50-1	1,2-Dichlorobenzene	2.35E-04	No	3.4E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	95-63-6	1,2,4-Trimethylbenzene	7.84E-04	No	1.1E-08	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	98-82-8	1-METHYLETHYLBENZENE	2.59E-04	No	3.7E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	1031-07-8	Endosulfan sulfate	2.89E-06	No	4.2E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	106-42-3	P-XYLENE	3.76E-05	No	5.4E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	106-93-4	1,2-Dibromoethane	4.10E-06	No	5.9E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	108-38-3	M-XYLENE	4.37E-04	No	6.3E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	108-90-7	Chlorobenzene	1.34E-06	No	1.9E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	11097-69-1	Aroclor 1254	1.01E-05	No	1.4E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	120-82-1	1,2,4-Trichlorobenzene	6.72E-07	No	9.7E-12	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	127-18-4	Tetrachloroethene	5.24E-06	No	7.5E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	33213-65-9	Endosulfan II	7.39E-06	No	1.1E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	5103-74-2	GAMMA-CHLORDANE	1.14E-05	No	1.6E-10	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	53494-70-5	Endrin ketone	1.61E-06	No	2.3E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	591-78-6	2-Hexanone	2.28E-06	No	3.3E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																					
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3_1	75-35-4	1,1-Dichloroethene	2.89E-06	No	4.2E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	79-34-5	1,1,2,2-Tetrachloroethane	1.95E-06	No	2.8E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	87-61-6	1,2,3-Trichlorobenzene	8.74E-07	No	1.3E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_1	96-12-8	1,2-Dibromo-3-Chloropropane	3.96E-06	No	5.7E-11	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_2	100-41-4	Ethylbenzene	2.27E-03	No	3.3E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	100-42-5	Styrene	3.21E-04	No	4.6E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	103-65-1	n-Propylbenzene	1.51E-03	No	2.2E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	104-51-8	n-Butylbenzene	1.76E-04	No	2.5E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	108-67-8	1,3,5-Trimethylbenzene	1.08E-03	No	1.5E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	108-88-3	Toluene	7.31E-04	No	1.1E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	11096-82-5	Aroclor 1260	1.01E-04	No	1.5E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	120-12-7	Anthracene	4.55E-03	No	6.5E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	129-00-0	Pyrene	1.26E-03	No	1.8E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	1330-20-7	XYLENES (TOTAL)	1.46E-02	No	2.1E-07	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	135-98-8	(1-METHYLPROPYL)BENZENE	1.21E-03	No	1.7E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	179601-23-1	m,p-Xylenes	2.14E-03	No	3.1E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	67-64-1	2-PROPANONE	2.04E-04	No	2.9E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	71-43-2	Benzene	1.82E-04	No	2.6E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	7421-93-4	Endrin aldehyde	5.67E-06	No	8.2E-11	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	7439-98-7	Molybdenum	3.72E-03	No	5.4E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	75-09-2	Methylene Chloride	1.74E-05	No	2.5E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	75-69-4	Trichlorofluoromethane	1.53E-04	No	2.2E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	78-93-3	2-Butanone	4.01E-05	No	5.8E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	83-32-9	Acenaphthene	6.16E-03	No	8.9E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	85-01-8	Phenanthrene	2.76E-01	No	4.0E-06	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	86-73-7	Fluorene	5.62E-03	No	8.1E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	91-20-3	Naphthalene	3.31E-03	No	4.8E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	91-57-6	2-Methylnaphthalene	1.33E-02	No	1.9E-07	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	95-47-6	o-Xylene	4.04E-04	No	5.8E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	95-50-1	1,2-Dichlorobenzene	9.37E-04	No	1.3E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	95-63-6	1,2,4-Trimethylbenzene	3.12E-03	No	4.5E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	98-82-8	1-METHYLETHYLBENZENE	1.03E-03	No	1.5E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	1031-07-8	Endosulfan sulfate	1.15E-05	No	1.7E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	106-42-3	P-XYLENE	1.50E-04	No	2.2E-09	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	106-93-4	1,2-Dibromoethane	1.63E-05	No	2.3E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	108-38-3	M-XYLENE	1.74E-03	No	2.5E-08	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	108-90-7	Chlorobenzene	5.35E-06	No	7.7E-11	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	11097-69-1	Aroclor 1254	4.01E-05	No	5.8E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	120-82-1	1,2,4-Trichlorobenzene	2.68E-06	No	3.8E-11	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	127-18-4	Tetrachloroethene	2.09E-05	No	3.0E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	33213-65-9	Endosulfan II	2.94E-05	No	4.2E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	5103-74-2	GAMMA-CHLORDANE	4.55E-05	No	6.5E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	53494-70-5	Endrin ketone	6.42E-06	No	9.2E-11	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	591-78-6	2-Hexanone	9.10E-06	No	1.3E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	75-35-4	1,1-Dichloroethene	1.15E-05	No	1.7E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	79-34-5	1,1,2,2-Tetrachloroethane	7.76E-06	No	1.1E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	87-61-6	1,2,3-Trichlorobenzene	3.48E-06	No	5.0E-11	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
3_2	96-12-8	1,2-Dibromo-3-Chloropropane	1.58E-05	No	2.3E-10	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	100-41-4	Ethylbenzene	1.68E-04	No	2.4E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	100-42-5	Styrene	2.37E-05	No	3.4E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	103-65-1	n-Propylbenzene	1.12E-04	No	1.6E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	104-51-8	n-Butylbenzene	1.30E-05	No	1.9E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	108-67-8	1,3,5-Trimethylbenzene	7.96E-05	No	1.1E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	108-88-3	Toluene	5.40E-05	No	7.8E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	11096-82-5	Aroclor 1260	7.50E-06	No	1.1E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	120-12-7	Anthracene	3.36E-04	No	4.8E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	129-00-0	Pyrene	9.32E-05	No	1.3E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	1330-20-7	XYLENES (TOTAL)	1.08E-03	No	1.6E-08	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	135-98-8	(1-METHYLPROPYL)BENZENE	8.97E-05	No	1.3E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	179601-23-1	m,p-Xylenes	1.59E-04	No	2.3E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	67-64-1	2-PROPANONE	1.51E-05	No	2.2E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	71-43-2	Benzene	1.35E-05	No	1.9E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	7421-93-4	Endrin aldehyde	4.20E-07	No	6.0E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	7439-98-7	Molybdenum	2.75E-04	No	4.0E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	75-09-2	Methylene Chloride	1.29E-06	No	1.9E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	75-69-4	Trichlorofluoromethane	1.13E-05	No	1.6E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	78-93-3	2-Butanone	2.97E-06	No	4.3E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	83-32-9	Acenaphthene	4.55E-04	No	6.5E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
5	85-01-8	Phenanthrene	2.04E-02	No	2.9E-07	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	86-73-7	Fluorene	4.16E-04	No	6.0E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	91-20-3	Naphthalene	2.45E-04	No	3.5E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	91-57-6	2-Methylnaphthalene	9.84E-04	No	1.4E-08	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	95-47-6	o-Xylene	2.99E-05	No	4.3E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	95-50-1	1,2-Dichlorobenzene	6.93E-05	No	1.0E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	95-63-6	1,2,4-Trimethylbenzene	2.31E-04	No	3.3E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	98-82-8	1-METHYLETHYLBENZENE	7.64E-05	No	1.1E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	1031-07-8	Endosulfan sulfate	8.51E-07	No	1.2E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	106-42-3	P-XYLENE	1.11E-05	No	1.6E-10	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	106-93-4	1,2-Dibromoethane	1.21E-06	No	1.7E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	108-38-3	M-XYLENE	1.29E-04	No	1.9E-09	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	108-90-7	Chlorobenzene	3.96E-07	No	5.7E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	11097-69-1	Aroclor 1254	2.97E-06	No	4.3E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	120-82-1	1,2,4-Trichlorobenzene	1.98E-07	No	2.8E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	127-18-4	Tetrachloroethene	1.54E-06	No	2.2E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	33213-65-9	Endosulfan II	2.18E-06	No	3.1E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	5103-74-2	GAMMA-CHLORDANE	3.36E-06	No	4.8E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	53494-70-5	Endrin ketone	4.75E-07	No	6.8E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	591-78-6	2-Hexanone	6.73E-07	No	9.7E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	75-35-4	1,1-Dichloroethene	8.51E-07	No	1.2E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	79-34-5	1,1,2,2-Tetrachloroethane	5.74E-07	No	8.3E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	87-61-6	1,2,3-Trichlorobenzene	2.57E-07	No	3.7E-12	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
5	96-12-8	1,2-Dibromo-3-Chloropropane	1.17E-06	No	1.7E-11	9	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
7_1	100-41-4	Ethylbenzene	3.08E-05	No	4.4E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	100-42-5	Styrene	4.35E-06	No	6.3E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	103-65-1	n-Propylbenzene	2.05E-05	No	2.9E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	104-51-8	n-Butylbenzene	2.39E-06	No	3.4E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	108-67-8	1,3,5-Trimethylbenzene	1.46E-05	No	2.1E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	108-88-3	Toluene	9.91E-06	No	1.4E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	11096-82-5	Aroclor 1260	1.38E-06	No	2.0E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	120-12-7	Anthracene	6.17E-05	No	8.9E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	129-00-0	Pyrene	1.71E-05	No	2.5E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	1330-20-7	XYLENES (TOTAL)	1.98E-04	No	2.8E-09	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	135-98-8	(1-METHYLPROPYL)BENZENE	1.64E-05	No	2.4E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	179601-23-1	m,p-Xylenes	2.91E-05	No	4.2E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	67-64-1	2-PROPANONE	2.77E-06	No	4.0E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	71-43-2	Benzene	2.47E-06	No	3.6E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	7421-93-4	Endrin aldehyde	7.69E-08	No	1.1E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	7439-98-7	Molybdenum	5.05E-05	No	7.3E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	75-09-2	Methylene Chloride	2.36E-07	No	3.4E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	75-69-4	Trichlorofluoromethane	2.07E-06	No	3.0E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	78-93-3	2-Butanone	5.44E-07	No	7.8E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	83-32-9	Acenaphthene	8.35E-05	No	1.2E-09	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	85-01-8	Phenanthrene	3.74E-03	No	5.4E-08	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	86-73-7	Fluorene	7.62E-05	No	1.1E-09	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	91-20-3	Naphthalene	4.49E-05	No	6.5E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	91-57-6	2-Methylnaphthalene	1.80E-04	No	2.6E-09	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	95-47-6	o-Xylene	5.48E-06	No	7.9E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	95-50-1	1,2-Dichlorobenzene	1.27E-05	No	1.8E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	95-63-6	1,2,4-Trimethylbenzene	4.23E-05	No	6.1E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	98-82-8	1-METHYLETHYLBENZENE	1.40E-05	No	2.0E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	1031-07-8	Endosulfan sulfate	1.56E-07	No	2.2E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	106-42-3	P-XYLENE	2.03E-06	No	2.9E-11	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	106-93-4	1,2-Dibromoethane	2.21E-07	No	3.2E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	108-38-3	M-XYLENE	2.36E-05	No	3.4E-10	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	108-90-7	Chlorobenzene	7.26E-08	No	1.0E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	11097-69-1	Aroclor 1254	5.44E-07	No	7.8E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	120-82-1	1,2,4-Trichlorobenzene	3.63E-08	No	5.2E-13	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	127-18-4	Tetrachloroethene	2.83E-07	No	4.1E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	33213-65-9	Endosulfan II	3.99E-07	No	5.7E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	5103-74-2	GAMMA-CHLORDANE	6.17E-07	No	8.9E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	53494-70-5	Endrin ketone	8.71E-08	No	1.3E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	591-78-6	2-Hexanone	1.23E-07	No	1.8E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	75-35-4	1,1-Dichloroethene	1.56E-07	No	2.2E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	79-34-5	1,1,2,2-Tetrachloroethane	1.05E-07	No	1.5E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	87-61-6	1,2,3-Trichlorobenzene	4.72E-08	No	6.8E-13	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00
7_1	96-12-8	1,2-Dibromo-3-Chloropropane	2.14E-07	No	3.1E-12	10	8.5E-01	8.7E-01	8.9E-01	9.3E-01	1.0E+00	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.4E+00	2.8E+00	3.2E+00	3.6E+00	4.1E+00	4.6E+00	5.7E+00	4.5E+00	5.7E+00	3.3E+00	2.7E+00

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
7_2	100-41-4	Ethylbenzene	5.60E-05	No	8.1E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	100-42-5	Styrene	7.92E-06	No	1.1E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	103-65-1	n-Propylbenzene	3.72E-05	No	5.4E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	104-51-8	n-Butylbenzene	4.35E-06	No	6.3E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	108-67-8	1,3,5-Trimethylbenzene	2.65E-05	No	3.8E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	108-88-3	Toluene	1.80E-05	No	2.6E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	11096-82-5	Aroclor 1260	2.50E-06	No	3.6E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	120-12-7	Anthracene	1.12E-04	No	1.6E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	129-00-0	Pyrene	3.11E-05	No	4.5E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	1330-20-7	XYLENES (TOTAL)	3.60E-04	No	5.2E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	135-98-8	(1-METHYLPROPYL)BENZENE	2.99E-05	No	4.3E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	179601-23-1	m,p-Xylenes	5.28E-05	No	7.6E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	67-64-1	2-PROPANONE	5.04E-06	No	7.2E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	71-43-2	Benzene	4.49E-06	No	6.5E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	7421-93-4	Endrin aldehyde	1.40E-07	No	2.0E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	7439-98-7	Molybdenum	9.18E-05	No	1.3E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	75-09-2	Methylene Chloride	4.29E-07	No	6.2E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	75-69-4	Trichlorofluoromethane	3.76E-06	No	5.4E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	78-93-3	2-Butanone	9.90E-07	No	1.4E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	83-32-9	Acenaphthene	1.52E-04	No	2.2E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	85-01-8	Phenanthrene	6.80E-03	No	9.8E-08	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	86-73-7	Fluorene	1.39E-04	No	2.0E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	91-20-3	Naphthalene	8.16E-05	No	1.2E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	91-57-6	2-Methylnaphthalene	3.28E-04	No	4.7E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	95-47-6	o-Xylene	9.96E-06	No	1.4E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	95-50-1	1,2-Dichlorobenzene	2.31E-05	No	3.3E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	95-63-6	1,2,4-Trimethylbenzene	7.70E-05	No	1.1E-09	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	98-82-8	1-METHYLETHYLBENZENE	2.55E-05	No	3.7E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	1031-07-8	Endosulfan sulfate	2.84E-07	No	4.1E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	106-42-3	P-XYLENE	3.69E-06	No	5.3E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	106-93-4	1,2-Dibromoethane	4.02E-07	No	5.8E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	108-38-3	M-XYLENE	4.29E-05	No	6.2E-10	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	108-90-7	Chlorobenzene	1.32E-07	No	1.9E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	11097-69-1	Aroclor 1254	9.90E-07	No	1.4E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	120-82-1	1,2,4-Trichlorobenzene	6.60E-08	No	9.5E-13	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	127-18-4	Tetrachloroethene	5.15E-07	No	7.4E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	33213-65-9	Endosulfan II	7.26E-07	No	1.0E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	5103-74-2	GAMMA-CHLORDANE	1.12E-06	No	1.6E-11	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	53494-70-5	Endrin ketone	1.58E-07	No	2.3E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	591-78-6	2-Hexanone	2.24E-07	No	3.2E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	75-35-4	1,1-Dichloroethene	2.84E-07	No	4.1E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	79-34-5	1,1,2,2-Tetrachloroethane	1.91E-07	No	2.8E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	87-61-6	1,2,3-Trichlorobenzene	8.58E-08	No	1.2E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
7_2	96-12-8	1,2-Dibromo-3-Chloropropane	3.89E-07	No	5.6E-12	11	9.6E+01	2.2E+02	2.3E+02	1.5E+02	9.0E+01	5.9E+01	4.0E+01	2.9E+01	2.2E+01	1.6E+01	1.3E+01	1.0E+01	8.2E+00	6.6E+00	5.5E+00	4.7E+00	2.8E+00	3.0E+00	2.2E+00	5.2E+00	7.1E+00
8	100-41-4	Ethylbenzene	1.07E-04	No	1.5E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	100-42-5	Styrene	1.51E-05	No	2.2E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	103-65-1	n-Propylbenzene	7.09E-05	No	1.0E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	104-51-8	n-Butylbenzene	8.28E-06	No	1.2E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	108-67-8	1,3,5-Trimethylbenzene	5.05E-05	No	7.3E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	108-88-3	Toluene	3.43E-05	No	4.9E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	11096-82-5	Aroclor 1260	4.76E-06	No	6.8E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	120-12-7	Anthracene	2.14E-04	No	3.1E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	129-00-0	Pyrene	5.92E-05	No	8.5E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	1330-20-7	XYLENES (TOTAL)	6.86E-04	No	9.9E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	135-98-8	(1-METHYLPROPYL)BENZENE	5.69E-05	No	8.2E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	179601-23-1	m,p-Xylenes	1.01E-04	No	1.4E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	67-64-1	2-PROPANONE	9.60E-06	No	1.4E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	71-43-2	Benzene	8.56E-06	No	1.2E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	7421-93-4	Endrin aldehyde	2.66E-07	No	3.8E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	7439-98-7	Molybdenum	1.75E-04	No	2.5E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	75-09-2	Methylene Chloride	8.18E-07	No	1.2E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	75-69-4	Trichlorofluoromethane	7.16E-06	No	1.0E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	78-93-3	2-Butanone	1.88E-06	No	2.7E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	83-32-9	Acenaphthene	2.89E-04	No	4.2E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	85-01-8	Phenanthrene	1.30E-02	No	1.9E-07	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	86-73-7	Fluorene	2.64E-04	No	3.8E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	91-20-3	Naphthalene	1.55E-04	No	2.2E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	91-57-6	2-Methylnaphthalene	6.25E-04	No	9.0E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
8	95-47-6	o-Xylene	1.90E-05	No	2.7E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	95-50-1	1,2-Dichlorobenzene	4.40E-05	No	6.3E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	95-63-6	1,2,4-Trimethylbenzene	1.47E-04	No	2.1E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	98-82-8	1-METHYLETHYLBENZENE	4.85E-05	No	7.0E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	1031-07-8	Endosulfan sulfate	5.40E-07	No	7.8E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	106-42-3	P-XYLENE	7.04E-06	No	1.0E-10	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	106-93-4	1,2-Dibromoethane	7.67E-07	No	1.1E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	108-38-3	M-XYLENE	8.17E-05	No	1.2E-09	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	108-90-7	Chlorobenzene	2.51E-07	No	3.6E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	11097-69-1	Aroclor 1254	1.88E-06	No	2.7E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	120-82-1	1,2,4-Trichlorobenzene	1.26E-07	No	1.8E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	127-18-4	Tetrachloroethene	9.80E-07	No	1.4E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	33213-65-9	Endosulfan II	1.38E-06	No	2.0E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	5103-74-2	GAMMA-CHLORDANE	2.14E-06	No	3.1E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	53494-70-5	Endrin ketone	3.02E-07	No	4.3E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	591-78-6	2-Hexanone	4.27E-07	No	6.1E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	75-35-4	1,1-Dichloroethene	5.40E-07	No	7.8E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	79-34-5	1,1,2,2-Tetrachloroethane	3.64E-07	No	5.2E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	87-61-6	1,2,3-Trichlorobenzene	1.63E-07	No	2.3E-12	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
8	96-12-8	1,2-Dibromo-3-Chloropropane	7.41E-07	No	1.1E-11	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
9	100-41-4	Ethylbenzene	1.07E-04	No	1.5E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	100-42-5	Styrene	1.51E-05	No	2.2E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	103-65-1	n-Propylbenzene	7.08E-05	No	1.0E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	104-51-8	n-Butylbenzene	8.27E-06	No	1.2E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	108-67-8	1,3,5-Trimethylbenzene	5.05E-05	No	7.3E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	108-88-3	Toluene	3.43E-05	No	4.9E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	11096-82-5	Aroclor 1260	4.76E-06	No	6.8E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	120-12-7	Anthracene	2.13E-04	No	3.1E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	129-00-0	Pyrene	5.91E-05	No	8.5E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	1330-20-7	XYLENES (TOTAL)	6.85E-04	No	9.9E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	135-98-8	(1-METHYLPROPYL)BENZENE	5.69E-05	No	8.2E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	179601-23-1	m,p-Xylenes	1.01E-04	No	1.4E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	67-64-1	2-PROPANONE	9.59E-06	No	1.4E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	71-43-2	Benzene	8.55E-06	No	1.2E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	7421-93-4	Endrin aldehyde	2.66E-07	No	3.8E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	7439-98-7	Molybdenum	1.75E-04	No	2.5E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	75-09-2	Methylene Chloride	8.17E-07	No	1.2E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	75-69-4	Trichlorofluoromethane	7.16E-06	No	1.0E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	78-93-3	2-Butanone	1.88E-06	No	2.7E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	83-32-9	Acenaphthene	2.89E-04	No	4.2E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	85-01-8	Phenanthrene	1.29E-02	No	1.9E-07	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	86-73-7	Fluorene	2.64E-04	No	3.8E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	91-20-3	Naphthalene	1.55E-04	No	2.2E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	91-57-6	2-Methylnaphthalene	6.24E-04	No	9.0E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	95-47-6	o-Xylene	1.90E-05	No	2.7E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	95-50-1	1,2-Dichlorobenzene	4.39E-05	No	6.3E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	95-63-6	1,2,4-Trimethylbenzene	1.47E-04	No	2.1E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	98-82-8	1-METHYLETHYLBENZENE	4.85E-05	No	7.0E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	1031-07-8	Endosulfan sulfate	5.40E-07	No	7.8E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	106-42-3	P-XYLENE	7.03E-06	No	1.0E-10	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	106-93-4	1,2-Dibromoethane	7.66E-07	No	1.1E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	108-38-3	M-XYLENE	8.16E-05	No	1.2E-09	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	108-90-7	Chlorobenzene	2.51E-07	No	3.6E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	11097-69-1	Aroclor 1254	1.88E-06	No	2.7E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	120-82-1	1,2,4-Trichlorobenzene	1.26E-07	No	1.8E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	127-18-4	Tetrachloroethene	9.79E-07	No	1.4E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	33213-65-9	Endosulfan II	1.38E-06	No	2.0E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	5103-74-2	GAMMA-CHLORDANE	2.13E-06	No	3.1E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	53494-70-5	Endrin ketone	3.01E-07	No	4.3E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	591-78-6	2-Hexanone	4.27E-07	No	6.1E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	75-35-4	1,1-Dichloroethene	5.40E-07	No	7.8E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	79-34-5	1,1,2,2-Tetrachloroethane	3.64E-07	No	5.2E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	87-61-6	1,2,3-Trichlorobenzene	1.63E-07	No	2.3E-12	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
9	96-12-8	1,2-Dibromo-3-Chloropropane	7.41E-07	No	1.1E-11	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	100-41-4	Ethylbenzene	7.38E-04	No	1.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	100-42-5	Styrene	1.04E-04	No	1.5E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	103-65-1	n-Propylbenzene	4.90E-04	No	7.0E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	104-51-8	n-Butylbenzene	5.73E-05	No	8.2E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	108-67-8	1,3,5-Trimethylbenzene	3.49E-04	No	5.0E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-88-3	Toluene	2.37E-04	No	3.4E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	11096-82-5	Aroclor 1260	3.29E-05	No	4.7E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	120-12-7	Anthracene	1.48E-03	No	2.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	129-00-0	Pyrene	4.09E-04	No	5.9E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1330-20-7	XYLENES (TOTAL)	4.74E-03	No	6.8E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	135-98-8	(1-METHYLPROPYL)BENZENE	3.94E-04	No	5.7E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	179601-23-1	m,p-Xylenes	6.96E-04	No	1.0E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	67-64-1	2-PROPANONE	6.64E-05	No	9.5E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	71-43-2	Benzene	5.92E-05	No	8.5E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	7421-93-4	Endrin aldehyde	1.84E-06	No	2.6E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	7439-98-7	Molybdenum	1.21E-03	No	1.7E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-09-2	Methylene Chloride	5.66E-06	No	8.1E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-69-4	Trichlorofluoromethane	4.95E-05	No	7.1E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	78-93-3	2-Butanone	1.30E-05	No	1.9E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	83-32-9	Acenaphthene	2.00E-03	No	2.9E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	85-01-8	Phenanthrene	8.96E-02	No	1.3E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	86-73-7	Fluorene	1.83E-03	No	2.6E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	91-20-3	Naphthalene	1.08E-03	No	1.5E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	91-57-6	2-Methylnaphthalene	4.32E-03	No	6.2E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-47-6	o-Xylene	1.31E-04	No	1.9E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-50-1	1,2-Dichlorobenzene	3.04E-04	No	4.4E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-63-6	1,2,4-Trimethylbenzene	1.01E-03	No	1.5E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	98-82-8	1-METHYLETHYLBENZENE	3.35E-04	No	4.8E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1031-07-8	Endosulfan sulfate	3.74E-06	No	5.4E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-42-3	P-XYLENE	4.87E-05	No	7.0E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-93-4	1,2-Dibromoethane	5.30E-06	No	7.6E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-38-3	M-XYLENE	5.65E-04	No	8.1E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-90-7	Chlorobenzene	1.74E-06	No	2.5E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	11097-69-1	Aroclor 1254	1.30E-05	No	1.9E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	120-82-1	1,2,4-Trichlorobenzene	8.69E-07	No	1.2E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	127-18-4	Tetrachloroethene	6.78E-06	No	9.7E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	33213-65-9	Endosulfan II	9.56E-06	No	1.4E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	5103-74-2	GAMMA-CHLORDANE	1.48E-05	No	2.1E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	53494-70-5	Endrin ketone	2.09E-06	No	3.0E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	591-78-6	2-Hexanone	2.95E-06	No	4.2E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-35-4	1,1-Dichloroethene	3.74E-06	No	5.4E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	79-34-5	1,1,2,2-Tetrachloroethane	2.52E-06	No	3.6E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	87-61-6	1,2,3-Trichlorobenzene	1.13E-06	No	1.6E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	96-12-8	1,2-Dibromo-3-Chloropropane	5.13E-06	No	7.4E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_S	100-41-4	Ethylbenzene	6.55E-04	No	9.4E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	100-42-5	Styrene	9.26E-05	No	1.3E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	103-65-1	n-Propylbenzene	4.35E-04	No	6.3E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	104-51-8	n-Butylbenzene	5.08E-05	No	7.3E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-67-8	1,3,5-Trimethylbenzene	3.10E-04	No	4.5E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-88-3	Toluene	2.11E-04	No	3.0E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	11096-82-5	Aroclor 1260	2.92E-05	No	4.2E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	120-12-7	Anthracene	1.31E-03	No	1.9E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	129-00-0	Pyrene	3.63E-04	No	5.2E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	1330-20-7	XYLENES (TOTAL)	4.21E-03	No	6.1E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	135-98-8	(1-METHYLPROPYL)BENZENE	3.49E-04	No	5.0E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	179601-23-1	m,p-Xylenes	6.18E-04	No	8.9E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	67-64-1	2-PROPANONE	5.89E-05	No	8.5E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	71-43-2	Benzene	5.25E-05	No	7.6E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	7421-93-4	Endrin aldehyde	1.64E-06	No	2.4E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	7439-98-7	Molybdenum	1.07E-03	No	1.5E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-09-2	Methylene Chloride	5.02E-06	No	7.2E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-69-4	Trichlorofluoromethane	4.40E-05	No	6.3E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	78-93-3	2-Butanone	1.16E-05	No	1.7E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	83-32-9	Acenaphthene	1.77E-03	No	2.6E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	85-01-8	Phenanthrene	7.95E-02	No	1.1E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	86-73-7	Fluorene	1.62E-03	No	2.3E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	91-20-3	Naphthalene	9.54E-04	No	1.4E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	91-57-6	2-Methylnaphthalene	3.83E-03	No	5.5E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-47-6	o-Xylene	1.16E-04	No	1.7E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-50-1	1,2-Dichlorobenzene	2.70E-04	No	3.9E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-63-6	1,2,4-Trimethylbenzene	9.00E-04	No	1.3E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	98-82-8	1-METHYLETHYLBENZENE	2.98E-04	No	4.3E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_S	1031-07-8	Endosulfan sulfate	3.32E-06	No	4.8E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-42-3	P-XYLENE	4.32E-05	No	6.2E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-93-4	1,2-Dibromoethane	4.71E-06	No	6.8E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-38-3	M-XYLENE	5.01E-04	No	7.2E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-90-7	Chlorobenzene	1.54E-06	No	2.2E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	11097-69-1	Aroclor 1254	1.16E-05	No	1.7E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	120-82-1	1,2,4-Trichlorobenzene	7.71E-07	No	1.1E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	127-18-4	Tetrachloroethene	6.02E-06	No	8.7E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	33213-65-9	Endosulfan II	8.48E-06	No	1.2E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	5103-74-2	GAMMA-CHLORDANE	1.31E-05	No	1.9E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	53494-70-5	Endrin ketone	1.85E-06	No	2.7E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	591-78-6	2-Hexanone	2.62E-06	No	3.8E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-35-4	1,1-Dichloroethene	3.32E-06	No	4.8E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	79-34-5	1,1,2,2-Tetrachloroethane	2.24E-06	No	3.2E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	87-61-6	1,2,3-Trichlorobenzene	1.00E-06	No	1.4E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	96-12-8	1,2-Dibromo-3-Chloropropane	4.55E-06	No	6.5E-11	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
STKP_L_N	100-41-4	Ethylbenzene	6.00E-06	No	8.6E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	100-42-5	Styrene	8.49E-07	No	1.2E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	103-65-1	n-Propylbenzene	3.99E-06	No	5.7E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	104-51-8	n-Butylbenzene	4.66E-07	No	6.7E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-67-8	1,3,5-Trimethylbenzene	2.84E-06	No	4.1E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-88-3	Toluene	1.93E-06	No	2.8E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	11096-82-5	Aroclor 1260	2.68E-07	No	3.9E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	120-12-7	Anthracene	1.20E-05	No	1.7E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	129-00-0	Pyrene	3.33E-06	No	4.8E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1330-20-7	XYLENES (TOTAL)	3.86E-05	No	5.6E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	135-98-8	(1-METHYLPROPYL)BENZENE	3.20E-06	No	4.6E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	179601-23-1	m,p-Xylenes	5.66E-06	No	8.1E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	67-64-1	2-PROPANONE	5.40E-07	No	7.8E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	71-43-2	Benzene	4.82E-07	No	6.9E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	7421-93-4	Endrin aldehyde	1.50E-08	No	2.2E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	7439-98-7	Molybdenum	9.84E-06	No	1.4E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-09-2	Methylene Chloride	4.60E-08	No	6.6E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-69-4	Trichlorofluoromethane	4.03E-07	No	5.8E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	78-93-3	2-Butanone	1.06E-07	No	1.5E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	83-32-9	Acenaphthene	1.63E-05	No	2.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	85-01-8	Phenanthrene	7.29E-04	No	1.0E-08	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	86-73-7	Fluorene	1.49E-05	No	2.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	91-20-3	Naphthalene	8.75E-06	No	1.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	91-57-6	2-Methylnaphthalene	3.51E-05	No	5.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	95-47-6	o-Xylene	1.07E-06	No	1.5E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	95-50-1	1,2-Dichlorobenzene	2.48E-06	No	3.6E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	95-63-6	1,2,4-Trimethylbenzene	8.25E-06	No	1.2E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	98-82-8	1-METHYLETHYLBENZENE	2.73E-06	No	3.9E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1031-07-8	Endosulfan sulfate	3.04E-08	No	4.4E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-42-3	P-XYLENE	3.96E-07	No	5.7E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-93-4	1,2-Dibromoethane	4.31E-08	No	6.2E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-38-3	M-XYLENE	4.60E-06	No	6.6E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-90-7	Chlorobenzene	1.41E-08	No	2.0E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	11097-69-1	Aroclor 1254	1.06E-07	No	1.5E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	120-82-1	1,2,4-Trichlorobenzene	7.07E-09	No	1.0E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	127-18-4	Tetrachloroethene	5.52E-08	No	7.9E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	33213-65-9	Endosulfan II	7.78E-08	No	1.1E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	5103-74-2	GAMMA-CHLORDANE	1.20E-07	No	1.7E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	53494-70-5	Endrin ketone	1.70E-08	No	2.4E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	591-78-6	2-Hexanone	2.40E-08	No	3.5E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-35-4	1,1-Dichloroethene	3.04E-08	No	4.4E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	79-34-5	1,1,2,2-Tetrachloroethane	2.05E-08	No	2.9E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	87-61-6	1,2,3-Trichlorobenzene	9.19E-09	No	1.3E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	96-12-8	1,2-Dibromo-3-Chloropropane	4.17E-08	No	6.0E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	100-41-4	Ethylbenzene	5.25E-06	No	7.5E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	100-42-5	Styrene	7.42E-07	No	1.1E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	103-65-1	n-Propylbenzene	3.49E-06	No	5.0E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	104-51-8	n-Butylbenzene	4.07E-07	No	5.9E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-67-8	1,3,5-Trimethylbenzene	2.49E-06	No	3.6E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-88-3	Toluene	1.69E-06	No	2.4E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	11096-82-5	Aroclor 1260	2.34E-07	No	3.4E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	120-12-7	Anthracene	1.05E-05	No	1.5E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	129-00-0	Pyrene	2.91E-06	No	4.2E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1330-20-7	XYLENES (TOTAL)	3.37E-05	No	4.9E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	135-98-8	(1-METHYLPROPYL)BENZENE	2.80E-06	No	4.0E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	179601-23-1	m,p-Xylenes	4.95E-06	No	7.1E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	67-64-1	2-PROPANONE	4.72E-07	No	6.8E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	71-43-2	Benzene	4.21E-07	No	6.1E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	7421-93-4	Endrin aldehyde	1.31E-08	No	1.9E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	7439-98-7	Molybdenum	8.60E-06	No	1.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-09-2	Methylene Chloride	4.02E-08	No	5.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-69-4	Trichlorofluoromethane	3.52E-07	No	5.1E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	78-93-3	2-Butanone	9.27E-08	No	1.3E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	83-32-9	Acenaphthene	1.42E-05	No	2.0E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	85-01-8	Phenanthrene	6.37E-04	No	9.2E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	86-73-7	Fluorene	1.30E-05	No	1.9E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	91-20-3	Naphthalene	7.65E-06	No	1.1E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	91-57-6	2-Methylnaphthalene	3.07E-05	No	4.4E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-47-6	o-Xylene	9.33E-07	No	1.3E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-50-1	1,2-Dichlorobenzene	2.16E-06	No	3.1E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-63-6	1,2,4-Trimethylbenzene	7.21E-06	No	1.0E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	98-82-8	1-METHYLETHYLBENZENE	2.39E-06	No	3.4E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1031-07-8	Endosulfan sulfate	2.66E-08	No	3.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-42-3	P-XYLENE	3.46E-07	No	5.0E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-93-4	1,2-Dibromoethane	3.77E-08	No	5.4E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-38-3	M-XYLENE	4.02E-06	No	5.8E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-90-7	Chlorobenzene	1.24E-08	No	1.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	11097-69-1	Aroclor 1254	9.27E-08	No	1.3E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	120-82-1	1,2,4-Trichlorobenzene	6.18E-09	No	8.9E-14	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	127-18-4	Tetrachloroethene	4.82E-08	No	6.9E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	33213-65-9	Endosulfan II	6.80E-08	No	9.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	5103-74-2	GAMMA-CHLORDANE	1.05E-07	No	1.5E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	53494-70-5	Endrin ketone	1.48E-08	No	2.1E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	591-78-6	2-Hexanone	2.10E-08	No	3.0E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-35-4	1,1-Dichloroethene	2.66E-08	No	3.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	79-34-5	1,1,2,2-Tetrachloroethane	1.79E-08	No	2.6E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	87-61-6	1,2,3-Trichlorobenzene	8.04E-09	No	1.2E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	96-12-8	1,2-Dibromo-3-Chloropropane	3.65E-08	No	5.2E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
3_1	103-65-1	#N/A	1.14E-01	Yes	1.6E-06	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_2	103-65-1	#N/A	2.01E+01	Yes	2.9E-04	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
8	103-65-1	#N/A	3.60E-01	Yes	5.2E-06	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
9	103-65-1	#N/A	7.30E-01	Yes	1.1E-05	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
B_7	103-65-1	#N/A	6.08E-04	Yes	8.7E-09	35	1.1E+01	1.6E+01	2.6E+01	4.8E+01	9.2E+01	1.4E+02	1.4E+02	1.1E+02	7.5E+01	5.1E+01	3.6E+01	2.6E+01	2.0E+01	1.5E+01	1.2E+01	9.5E+00	4.7E+00	4.9E+00	3.5E+00	9.2E+00	1.3E+01
HAUL_N	103-65-1	#N/A	2.90E-01	Yes	4.2E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
STKP_L_N	103-65-1	#N/A	2.22E+00	Yes	3.2E-05	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	103-65-1	#N/A	1.63E+00	Yes	2.3E-05	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
3_1	104-51-8	#N/A	1.04E-02	Yes	1.5E-07	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_2	104-51-8	#N/A	1.83E+00	Yes	2.6E-05	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
8	104-51-8	#N/A	3.28E-02	Yes	4.7E-07	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
9	104-51-8	#N/A	6.66E-02	Yes	9.6E-07	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	104-51-8	#N/A	2.65E-02	Yes	3.8E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
STKP_L_N	104-51-8	#N/A	2.02E-01	Yes	2.9E-06	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	104-51-8	#N/A	1.48E-01	Yes	2.1E-06	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
2_2	135-98-8	#N/A	1.93E+00	Yes	2.8E-05	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00
3_1	135-98-8	#N/A	1.36E-02	Yes	2.0E-07	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_2	135-98-8	#N/A	2.45E+00	Yes	3.5E-05	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
8	135-98-8	#N/A	4.30E-02	Yes	6.2E-07	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
9	135-98-8	#N/A	8.72E-02	Yes	1.3E-06	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
B_7	135-98-8	#N/A	4.35E-06	Yes	6.3E-11	35	1.1E+01	1.6E+01	2.6E+01	4.8E+01	9.2E+01	1.4E+02	1.4E+02	1.1E+02	7.5E+01	5.1E+01	3.6E+01	2.6E+01	2.0E+01	1.5E+01	1.2E+01	9.5E+00	4.7E+00	4.9E+00	3.5E+00	9.2E+00	1.3E+01
HAUL_N	135-98-8	#N/A	3.56E-02	Yes	5.1E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
STKP_L_N	135-98-8	#N/A	2.67E-01	Yes	3.8E-06	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	135-98-8	#N/A	1.96E-01	Yes	2.8E-06	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
3_1	591-78-6	#N/A	2.45E-04	Yes	3.5E-09	15	1.0E+00	1.2E+00	1.4E+00	1.6E+00	1.9E+00	2.2E+00	2.7E+00	3.2E+00	3.9E+00	5.0E+00	6.6E+00	9.3E+00	1.4E+01	2.4E+01	4.5E+01	7.7E+01	3.0E+01	2.1E+01	1.9E+01	2.1E+01	1.2E+01
3_2	591-78-6	#N/A	4.34E-02	Yes	6.2E-07	16	8.0E+00	1.5E+01	1.9E+01	2.2E+01	2.4E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.7E+01	2.8E+01	2.8E+01	2.9E+01	3.0E+01	2.9E+01	2.8E+01	9.8E+00	7.9E+00	6.9E+00	1.2E+01	1.3E+01
8	591-78-6	#N/A	7.73E-04	Yes	1.1E-08	19	1.6E+01	4.6E+01	6.5E+01	7.0E+01	7.4E+01	7.7E+01	7.9E+01	7.6E+01	7.1E+01	6.7E+01	6.6E+01	6.8E+01	7.3E+01	7.6E+01	7.7E+01	8.0E+01	2.1E+01	1.6E+01	1.3E+01	2.4E+01	2.3E+01
9	591-78-6	#N/A	1.57E-03	Yes	2.3E-08	12	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	591-78-6	#N/A	6.29E-04	Yes	9.0E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
STKP_L_N	591-78-6	#N/A	4.77E-03	Yes	6.9E-08	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	591-78-6	#N/A	3.50E-03	Yes	5.0E-08	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
2_2	75-15-0	#N/A	2.78E+00	Yes	4.0E-05	8	1.8E+00	2.1E+00	2.3E+00	2.6E+00	3.2E+00	4.1E+00	4.9E+00	5.1E+00	4.9E+00	4.6E+00	4.4E+00	4.1E+00	3.8E+00	3.4E+00	3.1E+00	2.7E+00	1.7E+00	1.8E+00	1.4E+00	2.8E+00	3.4E+00

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	100-41-4	Ethylbenzene	2.66E-04	No	3.8E-09	14	3.0E-08	5.3E-08	6.9E-08	7.9E-08	8.6E-08	9.4E-08	9.9E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.1E-07	1.1E-07	1.1E-07	1.0E-07	3.7E-08	3.0E-08	2.6E-08	4.5E-08	4.8E-08
1	100-42-5	Styrene	3.76E-05	No	5.4E-10	14	4.3E-09	7.5E-09	9.8E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.5E-08	1.5E-08	1.5E-08	1.5E-08	1.4E-08	5.2E-09	4.2E-09	3.7E-09	6.4E-09	6.8E-09
1	103-65-1	n-Propylbenzene	1.77E-04	No	2.5E-09	14	2.0E-08	3.5E-08	4.6E-08	5.2E-08	5.7E-08	6.2E-08	6.6E-08	6.7E-08	6.7E-08	6.6E-08	6.7E-08	6.9E-08	7.1E-08	7.2E-08	7.0E-08	6.7E-08	2.4E-08	2.0E-08	1.7E-08	3.0E-08	3.2E-08
1	104-51-8	n-Butylbenzene	2.07E-05	No	3.0E-10	14	2.4E-09	4.1E-09	5.4E-09	6.1E-09	6.7E-09	7.3E-09	7.7E-09	7.9E-09	7.8E-09	7.8E-09	7.8E-09	8.0E-09	8.3E-09	8.4E-09	8.2E-09	7.8E-09	2.8E-09	2.3E-09	2.0E-09	3.5E-09	3.7E-09
1	108-67-8	1,3,5-Trimethylbenzene	1.26E-04	No	1.8E-09	14	1.4E-08	2.5E-08	3.3E-08	3.7E-08	4.1E-08	4.4E-08	4.7E-08	4.8E-08	4.8E-08	4.7E-08	4.8E-08	4.9E-08	5.1E-08	5.1E-08	5.0E-08	4.8E-08	1.7E-08	1.4E-08	1.2E-08	2.1E-08	2.3E-08
1	108-88-3	Toluene	8.55E-05	No	1.2E-09	14	9.8E-09	1.7E-08	2.2E-08	2.5E-08	2.8E-08	3.0E-08	3.2E-08	3.3E-08	3.2E-08	3.2E-08	3.2E-08	3.3E-08	3.4E-08	3.5E-08	3.4E-08	3.2E-08	1.2E-08	9.6E-09	8.3E-09	1.5E-08	1.5E-08
1	11096-82-5	Aroclor 1260	1.19E-05	No	1.7E-10	14	1.4E-09	2.4E-09	3.1E-09	3.5E-09	3.9E-09	4.2E-09	4.4E-09	4.5E-09	4.5E-09	4.5E-09	4.5E-09	4.6E-09	4.8E-09	4.8E-09	4.7E-09	4.5E-09	1.6E-09	1.3E-09	1.2E-09	2.0E-09	2.1E-09
1	120-12-7	Anthracene	5.33E-04	No	7.7E-09	14	6.1E-08	1.1E-07	1.4E-07	1.6E-07	1.7E-07	1.9E-07	2.0E-07	2.0E-07	2.0E-07	2.0E-07	2.0E-07	2.1E-07	2.1E-07	2.2E-07	2.1E-07	2.0E-07	7.3E-08	6.0E-08	5.2E-08	9.0E-08	9.6E-08
1	129-00-0	Pyrene	1.48E-04	No	2.1E-09	14	1.7E-08	3.0E-08	3.8E-08	4.4E-08	4.8E-08	5.2E-08	5.5E-08	5.6E-08	5.6E-08	5.5E-08	5.6E-08	5.8E-08	5.9E-08	6.0E-08	5.9E-08	5.6E-08	2.0E-08	1.7E-08	1.4E-08	2.5E-08	2.7E-08
1	1330-20-7	XYLENES (TOTAL)	1.71E-03	No	2.5E-08	14	2.0E-07	3.4E-07	4.5E-07	5.1E-07	5.6E-07	6.0E-07	6.4E-07	6.5E-07	6.5E-07	6.4E-07	6.5E-07	6.7E-07	6.9E-07	6.9E-07	6.8E-07	6.5E-07	2.4E-07	1.9E-07	1.7E-07	2.9E-07	3.1E-07
1	135-98-8	(1-METHYLPROPYL)BENZENE	1.42E-04	No	2.0E-09	14	1.6E-08	2.8E-08	3.7E-08	4.2E-08	4.6E-08	5.0E-08	5.3E-08	5.4E-08	5.4E-08	5.3E-08	5.4E-08	5.5E-08	5.7E-08	5.8E-08	5.6E-08	5.4E-08	2.0E-08	1.6E-08	1.4E-08	2.4E-08	2.6E-08
1	179601-23-1	m,p-Xylenes	2.51E-04	No	3.6E-09	14	2.9E-08	5.0E-08	6.5E-08	7.4E-08	8.2E-08	8.8E-08	9.4E-08	9.6E-08	9.5E-08	9.4E-08	9.5E-08	9.8E-08	1.0E-07	1.0E-07	1.0E-07	9.5E-08	3.5E-08	2.8E-08	2.4E-08	4.3E-08	4.5E-08
1	67-64-1	2-PROPANONE	2.39E-05	No	3.4E-10	14	2.7E-09	4.8E-09	6.2E-09	7.1E-09	7.8E-09	8.4E-09	9.0E-09	9.1E-09	9.1E-09	9.0E-09	9.1E-09	9.3E-09	9.6E-09	9.7E-09	9.5E-09	9.1E-09	3.3E-09	2.7E-09	2.3E-09	4.1E-09	4.3E-09
1	71-43-2	Benzene	2.13E-05	No	3.1E-10	14	2.4E-09	4.3E-09	5.6E-09	6.3E-09	6.9E-09	7.5E-09	8.0E-09	8.1E-09	8.1E-09	8.0E-09	8.1E-09	8.3E-09	8.6E-09	8.7E-09	8.5E-09	8.1E-09	2.9E-09	2.4E-09	2.1E-09	3.6E-09	3.8E-09
1	7421-93-4	Endrin aldehyde	6.64E-07	No	9.6E-12	14	7.6E-11	1.3E-10	1.7E-10	2.0E-10	2.2E-10	2.3E-10	2.5E-10	2.5E-10	2.5E-10	2.5E-10	2.5E-10	2.6E-10	2.7E-10	2.7E-10	2.6E-10	2.5E-10	9.1E-11	7.4E-11	6.4E-11	1.1E-10	1.2E-10
1	7439-98-7	Molybdenum	4.36E-04	No	6.3E-09	14	5.0E-08	8.7E-08	1.1E-07	1.3E-07	1.4E-07	1.5E-07	1.6E-07	1.7E-07	1.7E-07	1.6E-07	1.6E-07	1.7E-07	1.7E-07	1.8E-07	1.7E-07	1.6E-07	6.0E-08	4.9E-08	4.2E-08	7.4E-08	7.8E-08
1	75-09-2	Methylene Chloride	2.04E-06	No	2.9E-11	14	2.3E-10	4.1E-10	5.3E-10	6.0E-10	6.6E-10	7.2E-10	7.6E-10	7.8E-10	7.7E-10	7.7E-10	7.7E-10	8.0E-10	8.2E-10	8.3E-10	8.1E-10	7.7E-10	2.8E-10	2.3E-10	2.0E-10	3.5E-10	3.7E-10
1	75-69-4	Trichlorofluoromethane	1.79E-05	No	2.6E-10	14	2.0E-09	3.6E-09	4.6E-09	5.3E-09	5.8E-09	6.3E-09	6.7E-09	6.8E-09	6.8E-09	6.7E-09	6.8E-09	7.0E-09	7.2E-09	7.2E-09	7.1E-09	6.8E-09	2.5E-09	2.0E-09	1.7E-09	3.0E-09	3.2E-09
1	78-93-3	2-Butanone	4.70E-06	No	6.8E-11	14	5.4E-10	9.4E-10	1.2E-09	1.4E-09	1.5E-09	1.7E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.9E-09	1.9E-09	1.9E-09	1.8E-09	6.5E-10	5.3E-10	4.6E-10	8.0E-10	8.4E-10
1	83-32-9	Acenaphthene	7.21E-04	No	1.0E-08	14	8.2E-08	1.4E-07	1.9E-07	2.1E-07	2.3E-07	2.5E-07	2.7E-07	2.7E-07	2.7E-07	2.7E-07	2.7E-07	2.8E-07	2.9E-07	2.9E-07	2.9E-07	2.7E-07	9.9E-08	8.1E-08	7.0E-08	1.2E-07	1.3E-07
1	85-01-8	Phenanthrene	3.23E-02	No	4.6E-07	14	3.7E-06	6.5E-06	8.4E-06	9.6E-06	1.1E-05	1.1E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.2E-05	4.4E-06	3.6E-06	3.1E-06	5.5E-06	5.8E-06
1	86-73-7	Fluorene	6.58E-04	No	9.5E-09	14	7.5E-08	1.3E-07	1.7E-07	1.9E-07	2.1E-07	2.3E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.6E-07	2.6E-07	2.7E-07	2.6E-07	2.5E-07	9.1E-08	7.4E-08	6.4E-08	1.1E-07	1.2E-07
1	91-20-3	Naphthalene	3.88E-04	No	5.6E-09	14	4.4E-08	7.7E-08	1.0E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	1.5E-07	1.5E-07	1.5E-07	1.5E-07	1.5E-07	1.6E-07	1.6E-07	1.5E-07	1.5E-07	5.3E-08	4.3E-08	3.8E-08	6.6E-08	7.0E-08
1	91-57-6	2-Methylnaphthalene	1.56E-03	No	2.2E-08	14	1.8E-07	3.1E-07	4.1E-07	4.6E-07	5.1E-07	5.5E-07	5.8E-07	5.9E-07	5.9E-07	5.8E-07	5.9E-07	6.1E-07	6.2E-07	6.3E-07	6.2E-07	5.9E-07	2.1E-07	1.7E-07	1.5E-07	2.6E-07	2.8E-07
1	95-47-6	o-Xylene	4.73E-05	No	6.8E-10	14	5.4E-09	9.5E-09	1.2E-08	1.4E-08	1.5E-08	1.7E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.9E-08	1.9E-08	1.9E-08	1.8E-08	6.5E-09	5.3E-09	4.6E-09	8.0E-09	8.5E-09
1	95-50-1	1,2-Dichlorobenzene	1.10E-04	No	1.6E-09	14	1.3E-08	2.2E-08	2.9E-08	3.2E-08	3.6E-08	3.9E-08	4.1E-08	4.2E-08	4.2E-08	4.1E-08	4.1E-08	4.3E-08	4.4E-08	4.4E-08	4.4E-08	4.1E-08	1.5E-08	1.2E-08	1.1E-08	1.9E-08	2.0E-08
1	95-63-6	1,2,4-Trimethylbenzene	3.66E-04	No	5.3E-09	14	4.2E-08	7.3E-08	9.5E-08	1.1E-07	1.2E-07	1.3E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.5E-07	1.5E-07	1.5E-07	1.4E-07	5.0E-08	4.1E-08	3.5E-08	6.2E-08	6.6E-08
1	98-82-8	1-METHYLETHYLBENZENE	1.21E-04	No	1.7E-09	14	1.4E-08	2.4E-08	3.1E-08	3.6E-08	3.9E-08	4.3E-08	4.5E-08	4.6E-08	4.6E-08	4.5E-08	4.6E-08	4.7E-08	4.9E-08	4.9E-08	4.8E-08	4.6E-08	1.7E-08	1.4E-08	1.2E-08	2.1E-08	2.2E-08
1	1031-07-8	Endosulfan sulfate	1.35E-06	No	1.9E-11	14	1.5E-10	2.7E-10	3.5E-10	4.0E-10	4.4E-10	4.7E-10	5.0E-10	5.1E-10	5.1E-10	5.1E-10	5.1E-10	5.3E-10	5.4E-10	5.5E-10	5.3E-10	5.1E-10	1.9E-10	1.5E-10	1.3E-10	2.3E-10	2.4E-10
1	106-42-3	P-XYLENE	1.75E-05	No	2.5E-10	14	2.0E-09	3.5E-09	4.6E-09	5.2E-09	5.7E-09	6.2E-09	6.6E-09	6.7E-09	6.7E-09	6.6E-09	6.6E-09	6.8E-09	7.0E-09	7.1E-09	7.0E-09	6.6E-09	2.4E-09	2.0E-09	1.7E-09	3.0E-09	3.2E-09
1	106-93-4	1,2-Dibromoethane	1.91E-06	No	2.7E-11	14	2.2E-10	3.8E-10	5.0E-10	5.7E-10	6.2E-10	6.7E-10	7.1E-10	7.3E-10	7.3E-10	7.2E-10	7.2E-10	7.4E-10	7.7E-10	7.8E-10	7.6E-10	7.2E-10	2.6E-10	2.1E-10	1.9E-10	3.2E-10	3.4E-10
1	108-38-3	M-XYLENE	2.04E-04	No	2.9E-09	14	2.3E-08	4.1E-08	5.3E-08	6.0E-08	6.6E-08	7.2E-08	7.6E-08	7.8E-08	7.7E-08	7.6E-08	7.7E-08	7.9E-08	8.2E-08	8.3E-08	8.1E-08	7.7E-08	2.8E-08	2.3E-08	2.0E-08	3.5E-08	3.7E-08
1	108-90-7	Chlorobenzene	6.27E-07	No	9.0E-12	14	7.2E-11	1.3E-10	1.6E-10	1.9E-10	2.0E-10	2.2E-10	2.3E-10	2.4E-10	2.4E-10	2.4E-10	2.4E-10	2.4E-10	2.5E-10	2.5E-10	2.5E-10	2.4E-10	8.6E-11	7.0E-11	6.1E-11	1.1E-10	1.1E-10
1	11097-69-1	Aroclor 1254	4.70E-06	No	6.8E-11	14	5.4E-10	9.4E-10	1.2E-09	1.4E-09	1.5E-09	1.7E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.9E-09	1.9E-09	1.9E-09	1.8E-09	6.5E-10	5.3E-10	4.6E-10	8.0E-10	8.4E-10
1	120-82-1	1,2,4-Trichlorobenzene	3.13E-07	No	4.5E-12	14	3.6E-11	6.3E-11	8.2E-11	9.3E-11	1.0E-10	1.1E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.3E-10	1.3E-10	1.2E-10	1.2E-10	4.3E-11	3.5E-11	3.0E-11	5.3E-11	5.6E-11
1	127-18-4	Tetrachloroethene	2.44E-06	No	3.5E-11	14	2.8E-10	4.9E-10	6.4E-10	7.2E-10	7.9E-10	8.6E-10	9.1E-10	9.3E-10	9.3E-10	9.2E-10	9.2E-10	9.5E-10	9.8E-10	9.9E-10	9.7E-10	9.2E-10	3.4E-10	2.7E-10	2.4E-10	4.1E-10	4.4E-10
1	33213-65-9	Endosulfan II	3.45E-06	No	5.0E-11	14	3.9E-10	6.9E-10	9.0E-10	1.0E-09	1.1E-09	1.2E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.3E-09	4.7E-10	3.9E-10	3.3E-10	5.8E-10	6.2E-10
1	5103-74-2	GAMMA-CHLORDANE	5.33E-06	No	7.7E-11	14	6.1E-10	1.1E-09	1.4E-09	1.6E-09	1.7E-09	1.9E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.1E-09	2.1E-09	2.2E-09	2.1E-09	2.0E-09	7.3E-10	6.0E-10	5.2E-10	9.0E-10	9.6E-10
1	53494-70-5	Endrin ketone	7.52E-07	No	1.1E-11	14	8.6E-11	1.5E-10	2.0E-10	2.2E-10	2.4E-10	2.6E-10	2.8E-10	2.9E-10	2.9E-10	2.8E-10	2.8E-10	2.9E-10	3.0E-10	3.1E-10	3.0E-10	2.8E-10	1.0E-10	8.4E-11	7.3E-11	1.3E-10	1.4E-10
1	591-78-6	2-Hexanone	1.07E-06	No	1.5E-11	14	1.2E-10	2.1E-10	2.8E-10	3.2E-10	3.5E-10	3.8E-10	4.0E-10	4.1E-10	4.0E-10	4.0E-10	4.0E-10	4.2E-10	4.3E-10	4.3E-10	4.2E-10	4.0E-10	1.5E-10	1.2E-10	1.0E-10	1.8E-10	1.9E-10
1	75-35-4	1,1-Dichloroethene	1.35E-06	No	1.9E-11	14	1.5E-10	2.7E-10	3.5E-10	4.0E-10	4.4E-10	4.7E-10	5.0E-10	5.1E-10	5.1E-10	5.1E-10	5.1E-10	5.3E-10	5.4E-10	5.5E-10	5.3E-10	5.1E-10	1.9E-10	1.5E-10	1.3E-10	2.3E-10	2.4E-10
1	79-34-5	1,1,2,2-Tetrachloroethane	9.09E-07	No	1.3E-11	14	1.0E-10	1.8E-10	2.4E-10	2.7E-10	3.0E-10	3.2E-10	3.4E-10	3.5E-10	3.5E-10	3.4E-10	3.4E-10	3.5E-10	3.6E-10	3.7E-10	3.6E-10	3.4E-10	1.3E-10	1.0E-10	8.8E-11	1.5E-10	1.6E-10
1	87-61-6	1,2,3-Trichlorobenzene	4.07E-07	No	5.9E-12	14	4.7E-11	8.1E-11	1.1E-10	1.2E-10	1.3E-10	1.4E-10	1.5E-10	1.6E-10	1.5E-10	1.5E-10	1.5E-10	1.6E-10	1.6E-10	1.7E-10	1.6E-10	1.5E-10	5.6E-11	4.6E-11	4.0E-11	6.9E-11	7.3E-11
1	96-12-8	1,2-Dibromo-3-Chloropropane	1.85E-06	No	2.7E-11	14	2.1E-10	3.7E-10	4.8E-10	5.5E-10	6.0E-10	6.5E-10	6.9E-10	7.0E-10	7.0E-10	6.9E-10	7.0E-10	7.2E-10	7.4E-10	7.5E-10	7.3E-10	7.0E-10	2.5E-10	2.1E-10	1.8E-10	3.1E-10	3.3E-10
2_1	100-41-4	Ethylbenzene	1.10E-04	No	1.6E-09	7	1.7E-08	2.8E-08	5.2E-08	1.2E-07	2.9E-07	4.3E-07	4.3E-07	2.8E-07	1.6E-07	9.8E-08	6.4E-08	4.5E-08	3.3E-08	2.4E-08	1.9E-08	1.5E-08	7.3E-09	7.9E-09	5.5E-09	1.5E-08	2.3E-08
2_1	100-42-5	Styrene	1.55E-05	No	2.2E-10	7	2.3E-09	3.9E-09	7.4E-09	1.7E-08	4.2E-08	6.1E-08	6.0E-08	3.9E-08	2.3E-08	1.4E-08	9.1E-09	6.3E-09	4.6E-09	3.5E-09	2.7E-09	2.1E-09	1.0E-09	1.1E-09	7.7E-10	2.2E-09	3.3E-09
2_1	103-65-1	n-Propylbenzene	7.28E-05	No	1.0E-09	7	1.1E-08	1.8E-08	3.5E-08	8.2E-08	2.0E-07	2.9E-07	2.8E-07	1.8E-07	1.1E-07	6.5E-08	4.3E-08	3.0E-08	2.2E-08	1.6E-08	1.3E-08	9.9E-09	4.9E-09	5.2E-09	3.6E-09	1.0E-08	1.5E-08
2_1	104-51-8	n-Butylbenzene	8.50E-06	No	1.2E-10	7	1.3E-09	2.2E-09	4.1E-09	9.6E-09	2.3E-08	3.4E-08	3.3E-08	2.2E-08	1.2E-08	7.6E-09	5.0E-09	3.5E-09	2.5E-09	1.9E-09	1.5E-09	1.2E-09	5.7E-10	6.1E-10	4.3E-10	1.2E-09	1.8E-09
2_1	108-67-8	1,3,5-Trimethylbenzene	5.19E-05	No	7.5E-10	7	7.8E-09	1.3E-08	2.5E-08	5.8E-08	1.4E-07	2.0E-07	2.0E-07	1.3E-07	7.6E-08	4.6E-08	3.0E-08	2.1E-08	1.5E-08	1.2E-08	9.0E-09	7.0E-09	3.5E-09	3.7E-09	2.6E-09	7.3E-09	1.1E-08
2_1	108-88-3	Toluene	3.52E-05	No	5.1E-10	7	5.3E-09	8.9E-09	1.7E-08	4.0E-08	9.5E-08	1.4E-07	1.4E-07	8.9E-08	5.2E-08	3.1E-08	2.1E-08	1.4E-08	1.0E-08	7.9E-09	6.1E-09	4.8E-09	2.4E-09	2.5E-09	1.8E-09	5.0E-09	7.4E-09
2_1	11096-82-5	Aroclor 1260	4.89E-06	No	7.0E-11	7	7.4E-10	1.2E-09	2.3E-09	5.5E-09	1.3E-08	1.9E-08	1.9E-08	1.2E-08	7.2E-09	4.4E-09	2.9E-09	2.0E-09	1.5E-09	1.1E-09	8.4E-10	6.6E-10	3.3E-10	3.5E-10	2.4E-10	6.9E-10	1.0E-09
2_1	120-12-7	Anthracene	2.19E-04	No	3.2E-09	7	3.3E-08	5.6E-08	1.0E-07	2.5E-07	5.9E-07	8.6E-07	8.5E-07	5.6E-07	3.2E-07	2.0E-07	1.3E-07	9.0E-08	6.5E-08	4.9E-08	3.8E-08	3.0E-08	1.5E-08	1.6E-08	1.1E-08	3.1E-08	4.6E-08
2_1	129-00-0	Pyrene	6.08E-05	No	8.7E-10	7	9.2E-09	1.5E-08	2.9E-08	6.9E-08	1.6E-07	2.4E-07	2.4E-07	1.5E-07	8.9E-08	5.4E-08	3.6E-08	2.5E-08	1.8E-08	1.4E-08	1.0E-08	8.2E-09	4.1E-09	4.4E-09	3.0E-09	8.6E-09	1.3E-08
2_1	1330-20-7	XYLENES (TOTAL)	7.04E-04	No	1.0E-08	7	1.1E-07	1.8E-07	3.4E-07	7.9E-07	1.9E-06	2.8E-06	2.7E-06	1.8E-06	1.0E-06	6.3E-07	4.1E-07	2.9E-07	2.1E-07	1.6E-07	1.2E-07	9.6E-08	4.7E-08	5.1E-08	3.5E-08	9.9E-08	1.5E-07
2_1	135-98-8	(1-METHYLPROPYL)BENZENE	5.84E-05	No	8.4E-10	7	8.8E-09	1.5E-08	2.8E-08	6.6E-08	1.6E-07	2.3E-07	2.3E-07	1.5E-07	8.6E-08	5.2E-08	3.4E-08	2.4E-08	1.7E-08	1.3E-08	1.0E-08	7.9E-09	3.9E-09	4.2E-09	2.9E-09	8.3E-09	1.2E-08
2_1	179601-23-1	m,p-Xylenes	1.03E-04	No	1.5E-09	7	1.6E-08	2.6E-08	4.9E-08	1.2E-07	2.8E-07	4.1E-07	4.0E-07	2.6E-07	1.5E-07	9.2E-08	6.1E-08	4.2E-08	3.1E-08	2.3E-08	1.8E-08	1.4E-08	6.9E-09	7.4E-09	5.2E-09	1.5E-08	2.2E-08
2_1	67-64-1	2-PROPANONE	9.86E-06	No	1.4E-10	7	1.5E-09	2.5E-09	4.7E-09	1.1E-08	2.7E-08	3.9E-08	3.8E-08	2.5E-08	1.4E-08	8.8E-09	5.8E-09	4.0E-09	2.9E-09	2.2E-09	1.7E-09	1.3E-09	6.6E-10	7.1E-10	4.9E-10	1.4E-09	2.1E-09
2_1	71-43-2	Benzene	8.79E-06	No	1.3E-10	7	1.3E-09	2.2E-09	4.2E-09	9.9E-09	2.4E-08	3.5E-08	3.4E-08	2.2E-08	1.3E-08	7.8E-09	5.2E-09	3.6E-09	2.6E-09	2.0E-09	1.5E-09	1.2E-09	5.9E-10	6.3E-10	4.4E-10	1.2E-09	1.9E-09
2_1	7421-93-4	Endrin aldehyde	2.73E-07	No	3.9E-12	7	4.1E-11	6.9E-11	1.3E-10	3.1E-10	7.4E-10	1.1E-09	1.1E-09	6.9E-10	4.0E-10	2.4E-10	1.6E-10	1.1E-10	8.1E-11	6.1E-11	4.7E-11	3.7E-11	1.8E-11	2.0E-11	1.4E-11	3.9E-11	5.8E-11
2_1	7439-98-7	Molybdenum	1.79E-04	No	2.6E-09	7	2.7E-08	4.5E-08	8.6E-08	2.0E-07	4.8E-07	7.1E-07	7.0E-07	4.5E-07	2.6E-07	1.6E-07	1.1E-07	7.4E-08	5.3E-08	4.0E-08	3.1E-08	2.4E-08	1.2E-08	1.3E-08	9.0E-09	2.5E-08	3.8E-08
2_1	75-09-2	Methylene Chloride	8.40E-07	No	1.2E-11	7	1.3E-10	2.1E-10	4.0E-10	9.5E-10	2.3E-09	3.3E-09	3.3E-09	2.1E-09	1.2E-09	7.5E-10	4.9E-10	3.4E-10	2.5E-10	1.9E-10	1.4E-10	1.1E-10	5.6E-11	6.1E-11	4.2E-11	1.2E-10	1.8E-10
2_1	75-69-4	Trichlorofluoromethane	7.35E-06	No	1.1E-10	7	1.1E-09	1.9E-09	3.5E-09	8.3E-09	2.0E-08	2.9E-08	2.9E-08	1.9E-08	1.1E-08	6.6E-09	4.3E-09	3.0E-09	2.2E-09	1.6E-09	1.3E-09	1.0E-09	4.9E-10	5.3E-10	3.7E-10	1.0E-09	1.6E-09
2_1	78-93-3	2-Butanone	1.94E-06	No	2.8E-11	7	2.9E-10	4.9E-10	9.2E-10	2.2E-09	5.2E-09	7.6E-09	7.5E-09	4.9E-09	2.8E-09	1.7E-09	1.1E-09	7.9E-10	5.8E-10	4.3E-10	3.3E-10	2.6E-10	1.3E-10	1.4E-10	9.7E-11	2.7E-10	4.1E-10
2_1	83-32-9	Acenaphthene	2.97E-04	No	4.3E-09	7	4.5E-08	7.5E-08	1.4E-07	3.3E-07	8.0E-07	1.2E-06	1.2E-06	7.5E-07	4.4E-07	2.6E-07	1.7E-07	1.2E-07	8.8E-08	6.6E-08	5.1E-08	4.0E-08	2.0E-08	2.1E-08	1.5E-08	4.2E-08	6.3E-08
2_1	85-01-8	Phenanthrene	1.33E-02	No	1.9E-07	7	2.0E-06	3.4E-06	6.4E-06	1.5E-05	3.6E-05	5.2E-05	5.2E-05	3.4E-05	2.0E-05	1.2E-05	7.8E-06	5.5E-06	4.0E-06	3.0E-06	2.3E-06	1.8E-06	8.9E-07	9.6E-07	6.7E-07	1.9E-06	2.8E-06
2_1	86-73-7	Fluorene	2.71E-04	No	3.9E-09	7	4.1E-08	6.9E-08	1.3E-07	3.1E-07	7.3E-07	1.1E-06	1.1E-06	6.9E-07	4.0E-07	2.4E-07	1.6E-07	1.1E-07	8.1E-08	6.0E-08	4.7E-08	3.7E-08	1.8E-08	2.0E-08	1.4E-08	3.8E-08	5.7E-08
2_1	91-20-3	Naphthalene	1.60E-04	No	2.3E-09	7	2.4E-08	4.0E-08	7.6E-08	1.8E-07	4.3E-07	6.3E-07	6.2E-07	4.0E-07	2.3E-07	1.4E-07	9.4E-08	6.5E-08	4.8E-08	3.6E-08	2.8E-08	2.2E-08	1.1E-08	1.1E-08	8.0E-09	2.3E-08	3.4E-08
2_1	91-57-6	2-Methylnaphthalene	6.41E-04	No	9.2E-09	7	9.7E-08	1.6E-07	3.1E-07	7.2E-07	1.7E-06	2.5E-06	2.5E-06	1.6E-06	9.4E-07	5.7E-07	3.8E-07	2.6E-07	1.9E-07	1.4E-07	1.1E-07	8.7E-08	4.3E-08	4.6E-08	3.2E-08	9.1E-08	1.4E-07

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

		Step 1. Paste in AERMOD Inputs Here					Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**Volatile**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
2_1	95-47-6	o-Xylene	1.95E-05	No	2.8E-10	7	2.9E-09	4.9E-09	9.3E-09	2.2E-08	5.2E-08	7.7E-08	7.6E-08	4.9E-08	2.9E-08	1.7E-08	1.1E-08	8.0E-09	5.8E-09	4.3E-09	3.4E-09	2.6E-09	1.3E-09	1.4E-09	9.7E-10	2.8E-09	4.1E-09
2_1	95-50-1	1,2-Dichlorobenzene	4.52E-05	No	6.5E-10	7	6.8E-09	1.1E-08	2.2E-08	5.1E-08	1.2E-07	1.8E-07	1.8E-07	1.1E-07	6.6E-08	4.0E-08	2.6E-08	1.9E-08	1.3E-08	1.0E-08	7.8E-09	6.1E-09	3.0E-09	3.3E-09	2.3E-09	6.4E-09	9.5E-09
2_1	95-63-6	1,2,4-Trimethylbenzene	1.51E-04	No	2.2E-09	7	2.3E-08	3.8E-08	7.2E-08	1.7E-07	4.0E-07	5.9E-07	5.9E-07	3.8E-07	2.2E-07	1.3E-07	8.8E-08	6.2E-08	4.5E-08	3.4E-08	2.6E-08	2.0E-08	1.0E-08	1.1E-08	7.5E-09	2.1E-08	3.2E-08
2_1	98-82-8	1-METHYLETHYLBENZENE	4.98E-05	No	7.2E-10	7	7.5E-09	1.3E-08	2.4E-08	5.6E-08	1.3E-07	2.0E-07	1.9E-07	1.3E-07	7.3E-08	4.4E-08	2.9E-08	2.0E-08	1.5E-08	1.1E-08	8.6E-09	6.8E-09	3.3E-09	3.6E-09	2.5E-09	7.0E-09	1.1E-08
2_1	1031-07-8	Endosulfan sulfate	5.55E-07	No	8.0E-12	7	8.4E-11	1.4E-10	2.6E-10	6.3E-10	1.5E-09	2.2E-09	2.2E-09	1.4E-09	8.1E-10	4.9E-10	3.3E-10	2.3E-10	1.7E-10	1.2E-10	9.6E-11	7.5E-11	3.7E-11	4.0E-11	2.8E-11	7.8E-11	1.2E-10
2_1	106-42-3	P-XYLENE	7.22E-06	No	1.0E-10	7	1.1E-09	1.8E-09	3.4E-09	8.1E-09	1.9E-08	2.8E-08	2.8E-08	1.8E-08	1.1E-08	6.4E-09	4.2E-09	3.0E-09	2.2E-09	1.6E-09	1.2E-09	9.8E-10	4.8E-10	5.2E-10	3.6E-10	1.0E-09	1.5E-09
2_1	106-93-4	1,2-Dibromoethane	7.87E-07	No	1.1E-11	7	1.2E-10	2.0E-10	3.8E-10	8.9E-10	2.1E-09	3.1E-09	3.1E-09	2.0E-09	1.2E-09	7.0E-10	4.6E-10	3.2E-10	2.3E-10	1.8E-10	1.4E-10	1.1E-10	5.3E-11	5.7E-11	3.9E-11	1.1E-10	1.7E-10
2_1	108-38-3	M-XYLENE	8.39E-05	No	1.2E-09	7	1.3E-08	2.1E-08	4.0E-08	9.5E-08	2.3E-07	3.3E-07	3.3E-07	2.1E-07	1.2E-07	7.5E-08	4.9E-08	3.4E-08	2.5E-08	1.9E-08	1.4E-08	1.1E-08	5.6E-09	6.0E-09	4.2E-09	1.2E-08	1.8E-08
2_1	108-90-7	Chlorobenzene	2.58E-07	No	3.7E-12	7	3.9E-11	6.5E-11	1.2E-10	2.9E-10	6.9E-10	1.0E-09	1.0E-09	6.5E-10	3.8E-10	2.3E-10	1.5E-10	1.1E-10	7.7E-11	5.8E-11	4.5E-11	3.5E-11	1.7E-11	1.9E-11	1.3E-11	3.6E-11	5.5E-11
2_1	11097-69-1	Aroclor 1254	1.94E-06	No	2.8E-11	7	2.9E-10	4.9E-10	9.2E-10	2.2E-09	5.2E-09	7.6E-09	7.5E-09	4.9E-09	2.8E-09	1.7E-09	1.1E-09	7.9E-10	5.8E-10	4.3E-10	3.3E-10	2.6E-10	1.3E-10	1.4E-10	9.7E-11	2.7E-10	4.1E-10
2_1	120-82-1	1,2,4-Trichlorobenzene	1.29E-07	No	1.9E-12	7	1.9E-11	3.3E-11	6.2E-11	1.5E-10	3.5E-10	5.1E-10	5.0E-10	3.3E-10	1.9E-10	1.2E-10	7.6E-11	5.3E-11	3.8E-11	2.9E-11	2.2E-11	1.8E-11	8.6E-12	9.3E-12	6.5E-12	1.8E-11	2.7E-11
2_1	127-18-4	Tetrachloroethene	1.01E-06	No	1.4E-11	7	1.5E-10	2.5E-10	4.8E-10	1.1E-09	2.7E-09	4.0E-09	3.9E-09	2.5E-09	1.5E-09	9.0E-10	5.9E-10	4.1E-10	3.0E-10	2.2E-10	1.7E-10	1.4E-10	6.7E-11	7.3E-11	5.0E-11	1.4E-10	2.1E-10
2_1	33213-65-9	Endosulfan II	1.42E-06	No	2.0E-11	7	2.1E-10	3.6E-10	6.8E-10	1.6E-09	3.8E-09	5.6E-09	5.5E-09	3.6E-09	2.1E-09	1.3E-09	8.3E-10	5.8E-10	4.2E-10	3.2E-10	2.4E-10	1.9E-10	9.5E-11	1.0E-10	7.1E-11	2.0E-10	3.0E-10
2_1	5103-74-2	GAMMA-CHLORDANE	2.19E-06	No	3.2E-11	7	3.3E-10	5.6E-10	1.0E-09	2.5E-09	5.9E-09	8.6E-09	8.5E-09	5.6E-09	3.2E-09	2.0E-09	1.3E-09	9.0E-10	6.5E-10	4.9E-10	3.8E-10	3.0E-10	1.5E-10	1.6E-10	1.1E-10	3.1E-10	4.6E-10
2_1	53494-70-5	Endrin ketone	3.10E-07	No	4.5E-12	7	4.7E-11	7.8E-11	1.5E-10	3.5E-10	8.3E-10	1.2E-09	1.2E-09	7.8E-10	4.5E-10	2.8E-10	1.8E-10	1.3E-10	9.2E-11	6.9E-11	5.3E-11	4.2E-11	2.1E-11	2.2E-11	1.5E-11	4.4E-11	6.5E-11
2_1	591-78-6	2-Hexanone	4.39E-07	No	6.3E-12	7	6.6E-11	1.1E-10	2.1E-10	4.9E-10	1.2E-09	1.7E-09	1.7E-09	1.1E-09	6.4E-10	3.9E-10	2.6E-10	1.8E-10	1.3E-10	9.8E-11	7.6E-11	6.0E-11	2.9E-11	3.2E-11	2.2E-11	6.2E-11	9.3E-11
2_1	75-35-4	1,1-Dichloroethene	5.55E-07	No	8.0E-12	7	8.4E-11	1.4E-10	2.6E-10	6.3E-10	1.5E-09	2.2E-09	2.2E-09	1.4E-09	8.1E-10	4.9E-10	3.3E-10	2.3E-10	1.7E-10	1.2E-10	9.6E-11	7.5E-11	3.7E-11	4.0E-11	2.8E-11	7.8E-11	1.2E-10
2_1	79-34-5	1,1,2,2-Tetrachloroethane	3.74E-07	No	5.4E-12	7	5.6E-11	9.5E-11	1.8E-10	4.2E-10	1.0E-09	1.5E-09	1.5E-09	9.5E-10	5.5E-10	3.3E-10	2.2E-10	1.5E-10	1.1E-10	8.3E-11	6.5E-11	5.1E-11	2.5E-11	2.7E-11	1.9E-11	5.3E-11	7.9E-11
2_1	87-61-6	1,2,3-Trichlorobenzene	1.68E-07	No	2.4E-12	7	2.5E-11	4.2E-11	8.0E-11	1.9E-10	4.5E-10	6.6E-10	6.5E-10	4.2E-10	2.5E-10	1.5E-10	9.8E-11	6.9E-11	5.0E-11	3.7E-11	2.9E-11	2.3E-11	1.1E-11	1.2E-11	8.4E-12	2.4E-11	3.5E-11
2_1	96-12-8	1,2-Dibromo-3-Chloropropane	7.61E-07	No	1.1E-11	7	1.1E-10	1.9E-10	3.6E-10	8.6E-10	2.0E-09	3.0E-09	3.0E-09	1.9E-09	1.1E-09	6.8E-10	4.5E-10	3.1E-10	2.3E-10	1.7E-10	1.3E-10	1.0E-10	5.1E-11	5.5E-11	3.8E-11	1.1E-10	1.6E-10
2_2	100-41-4	Ethylbenzene	1.02E-07	No	1.5E-12	8	2.7E-12	3.0E-12	3.4E-12	3.8E-12	4.7E-12	5.9E-12	7.2E-12	7.4E-12	7.2E-12	6.8E-12	6.4E-12	6.0E-12	5.5E-12	5.0E-12	4.5E-12	4.0E-12	2.5E-12	2.6E-12	2.0E-12	4.0E-12	5.0E-12
2_2	100-42-5	Styrene	1.18E-06	No	1.7E-11	8	3.1E-11	3.5E-11	3.9E-11	4.5E-11	5.4E-11	6.9E-11	8.4E-11	8.6E-11	8.4E-11	7.9E-11	7.4E-11	6.9E-11	6.4E-11	5.8E-11	5.2E-11	4.6E-11	2.9E-11	3.0E-11	2.4E-11	4.7E-11	5.8E-11
2_2	135-98-8	(1-METHYLPROPYL)BENZENE	1.14E-06	No	1.6E-11	8	3.0E-11	3.4E-11	3.8E-11	4.3E-11	5.2E-11	6.7E-11	8.1E-11	8.3E-11	8.1E-11	7.6E-11	7.1E-11	6.7E-11	6.2E-11	5.6E-11	5.0E-11	4.5E-11	2.8E-11	2.9E-11	2.3E-11	4.5E-11	5.6E-11
2_2	67-64-1	2-PROPANONE	3.87E-08	No	5.6E-13	8	1.0E-12	1.1E-12	1.3E-12	1.5E-12	1.8E-12	2.3E-12	2.7E-12	2.8E-12	2.7E-12	2.6E-12	2.4E-12	2.3E-12	2.1E-12	1.9E-12	1.7E-12	1.5E-12	9.6E-13	9.9E-13	7.7E-13	1.5E-12	1.9E-12
2_2	78-93-3	2-Butanone	1.75E-07	No	2.5E-12	8	4.6E-12	5.2E-12	5.8E-12	6.6E-12	8.0E-12	1.0E-11	1.2E-11	1.3E-11	1.2E-11	1.2E-11	1.1E-11	1.0E-11	9.5E-12	8.7E-12	7.7E-12	6.9E-12	4.4E-12	4.5E-12	3.5E-12	7.0E-12	8.7E-12
2_2	85-01-8	Phenanthrene	2.24E-03	No	3.2E-08	8	5.8E-08	6.6E-08	7.4E-08	8.4E-08	1.0E-07	1.3E-07	1.6E-07	1.6E-07	1.6E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	1.1E-07	9.8E-08	8.8E-08	5.6E-08	5.7E-08	4.5E-08	8.9E-08	1.1E-07
2_2	91-20-3	Naphthalene	6.93E-06	No	1.0E-10	8	1.8E-10	2.1E-10	2.3E-10	2.6E-10	3.2E-10	4.0E-10	4.9E-10	5.1E-10	4.9E-10	4.6E-10	4.3E-10	4.1E-10	3.8E-10	3.4E-10	3.0E-10	2.7E-10	1.7E-10	1.8E-10	1.4E-10	2.7E-10	3.4E-10
2_2	95-63-6	1,2,4-Trimethylbenzene	1.02E-07	No	1.5E-12	8	2.7E-12	3.0E-12	3.4E-12	3.8E-12	4.7E-12	5.9E-12	7.2E-12	7.4E-12	7.2E-12	6.8E-12	6.4E-12	6.0E-12	5.5E-12	5.0E-12	4.5E-12	4.0E-12	2.5E-12	2.6E-12	2.0E-12	4.0E-12	5.0E-12
3_1	100-41-4	Ethylbenzene	5.70E-04	No	8.2E-09	15	8.4E-09	9.7E-09	1.1E-08	1.3E-08	1.6E-08	1.8E-08	2.2E-08	2.6E-08	3.2E-08	4.1E-08	5.4E-08	7.7E-08	1.2E-07	2.0E-07	3.7E-07	6.3E-07	2.5E-07	1.7E-07	1.6E-07	1.7E-07	1.0E-07
3_1	100-42-5	Styrene	8.06E-05	No	1.2E-09	15	1.2E-09	1.4E-09	1.6E-09	1.9E-09	2.2E-09	2.6E-09	3.1E-09	3.7E-09	4.5E-09	5.7E-09	7.6E-09	1.1E-08	1.7E-08	2.8E-08	5.3E-08	8.9E-08	3.5E-08	2.4E-08	2.2E-08	2.4E-08	1.4E-08
3_1	103-65-1	n-Propylbenzene	3.79E-04	No	5.5E-09	15	5.6E-09	6.4E-09	7.5E-09	8.7E-09	1.0E-08	1.2E-08	1.4E-08	1.7E-08	2.1E-08	2.7E-08	3.6E-08	5.1E-08	7.8E-08	1.3E-07	2.5E-07	4.2E-07	1.7E-07	1.1E-07	1.0E-07	1.1E-07	6.6E-08
3_1	104-51-8	n-Butylbenzene	4.43E-05	No	6.4E-10	15	6.5E-10	7.5E-10	8.7E-10	1.0E-09	1.2E-09	1.4E-09	1.7E-09	2.0E-09	2.5E-09	3.2E-09	4.2E-09	5.9E-09	9.1E-09	1.5E-08	2.9E-08	4.9E-08	1.9E-08	1.3E-08	1.2E-08	1.3E-08	7.8E-09
3_1	108-67-8	1,3,5-Trimethylbenzene	2.70E-04	No	3.9E-09	15	4.0E-09	4.6E-09	5.3E-09	6.2E-09	7.3E-09	8.7E-09	1.0E-08	1.2E-08	1.5E-08	1.9E-08	2.6E-08	3.6E-08	5.6E-08	9.4E-08	1.8E-07	3.0E-07	1.2E-07	8.1E-08	7.4E-08	8.2E-08	4.7E-08
3_1	108-88-3	Toluene	1.83E-04	No	2.6E-09	15	2.7E-09	3.1E-09	3.6E-09	4.2E-09	5.0E-09	5.9E-09	7.0E-09	8.4E-09	1.0E-08	1.3E-08	1.7E-08	2.5E-08	3.8E-08	6.4E-08	1.2E-07	2.0E-07	8.0E-08	5.5E-08	5.0E-08	5.5E-08	3.2E-08
3_1	11096-82-5	Aroclor 1260	2.55E-05	No	3.7E-10	15	3.7E-10	4.3E-10	5.0E-10	5.9E-10	6.9E-10	8.2E-10	9.7E-10	1.2E-09	1.4E-09	1.8E-09	2.4E-09	3.4E-09	5.2E-09	8.8E-09	1.7E-08	2.8E-08	1.1E-08	7.6E-09	7.0E-09	7.7E-09	4.5E-09
3_1	120-12-7	Anthracene	1.14E-03	No	1.6E-08	15	1.7E-08	1.9E-08	2.3E-08	2.6E-08	3.1E-08	3.7E-08	4.4E-08	5.2E-08	6.4E-08	8.1E-08	1.1E-07	1.5E-07	2.3E-07	4.0E-07	7.5E-07	1.3E-06	5.0E-07	3.4E-07	3.1E-07	3.4E-07	2.0E-07
3_1	129-00-0	Pyrene	3.16E-04	No	4.6E-09	15	4.6E-09	5.4E-09	6.2E-09	7.3E-09	8.6E-09	1.0E-08	1.2E-08	1.5E-08	1.8E-08	2.3E-08	3.0E-08	4.3E-08	6.5E-08	1.1E-07	2.1E-07	3.5E-07	1.4E-07	9.5E-08	8.7E-08	9.6E-08	5.6E-08
3_1	1330-20-7	XYLENES (TOTAL)	3.67E-03	No	5.3E-08	15	5.4E-08	6.2E-08	7.2E-08	8.4E-08	1.0E-07	1.2E-07	1.4E-07	1.7E-07	2.1E-07	2.6E-07	3.5E-07	4.9E-07	7.5E-07	1.3E-06	2.4E-06	4.1E-06	1.6E-06	1.1E-06	1.0E-06	1.1E-06	6.4E-07
3_1	135-98-8	(1-METHYLPROPYL)BENZENE	3.04E-04	No	4.4E-09	15	4.5E-09	5.2E-09	6.0E-09	7.0E-09	8.3E-09	9.8E-09	1.2E-08	1.4E-08	1.7E-08	2.2E-08	2.9E-08	4.1E-08	6.3E-08	1.1E-07	2.0E-07	3.4E-07	1.3E-07	9.1E-08	8.4E-08	9.2E-08	5.3E-08
3_1	179601-23-1	m,p-Xylenes	5.38E-04	No	7.7E-09	15	7.9E-09	9.1E-09	1.1E-08	1.2E-08	1.5E-08	1.7E-08	2.1E-08	2.5E-08	3.0E-08	3.8E-08	5.1E-08	7.2E-08	1.1E-07	1.9E-07	3.5E-07	6.0E-07	2.4E-07	1.6E-07	1.5E-07	1.6E-07	9.4E-08
3_1	67-64-1	2-PROPANONE	5.13E-05	No	7.4E-10	15	7.5E-10	8.7E-10	1.0E-09	1.2E-09	1.4E-09	1.6E-09	2.0E-09	2.4E-09	2.9E-09	3.7E-09	4.9E-09	6.9E-09	1.1E-08	1.8E-08	3.4E-08	5.7E-08	2.2E-08	1.5E-08	1.4E-08	1.6E-08	9.0E-09
3_1	71-43-2	Benzene	4.58E-05	No	6.6E-10	15	6.7E-10	7.8E-10	9.0E-10	1.1E-09	1.2E-09	1.5E-09	1.7E-09	2.1E-09	2.6E-09	3.3E-09	4.3E-09	6.1E-09	9.4E-09	1.6E-08	3.0E-08	5.1E-08	2.0E-08	1.4E-08	1.3E-08	1.4E-08	8.0E-09
3_1	7421-93-4	Endrin aldehyde	1.42E-06	No	2.0E-11	15	2.1E-11	2.4E-11	2.8E-11	3.3E-11	3.9E-11	4.6E-11	5.4E-11	6.5E-11	8.0E-11	1.0E-10	1.3E-10	1.9E-10	2.9E-10	4.9E-10	9.3E-10	1.6E-09	6.2E-10	4.3E-10	3.9E-10	4.3E-10	2.5E-10
3_1	7439-98-7	Molybdenum	9.35E-04	No	1.3E-08	15	1.4E-08	1.6E-08	1.8E-08	2.2E-08	2.5E-08	3.0E-08	3.6E-08	4.3E-08	5.3E-08	6.7E-08	8.8E-08	1.3E-07	1.9E-07	3.2E-07	6.1E-07	1.0E-06	4.1E-07	2.8E-07	2.6E-07	2.8E-07	1.6E-07
3_1	75-09-2	Methylene Chloride	4.37E-06	No	6.3E-11	15	6.4E-11	7.4E-11	8.6E-11	1.0E-10	1.2E-10	1.4E-10	1.7E-10	2.0E-10	2.5E-10	3.1E-10	4.1E-10	5.9E-10	9.0E-10	1.5E-09	2.9E-09	4.8E-09	1.9E-09	1.3E-09	1.2E-09	1.3E-09	7.7E-10
3_1	75-69-4	Trichlorofluoromethane	3.83E-05	No	5.5E-10	15	5.6E-10	6.5E-10	7.5E-10	8.8E-10	1.0E-09	1.2E-09	1.5E-09	1.8E-09	2.2E-09	2.7E-09	3.6E-09	5.1E-09	7.9E-09	1.3E-08	2.5E-08	4.2E-08	1.7E-08	1.1E-08	1.1E-08	1.2E-08	6.7E-09
3_1	78-93-3	2-Butanone	1.01E-05	No	1.4E-10	15	1.5E-10	1.7E-10	2.0E-10	2.3E-10	2.7E-10	3.2E-10	3.8E-10	4.6E-10	5.7E-10	7.2E-10	9.5E-10	1.4E-09	2.1E-09	3.5E-09	6.6E-09	1.1E-08	4.4E-09	3.0E-09	2.8E-09	3.0E-09	1.8E-09
3_1	83-32-9	Acenaphthene	1.55E-03	No	2.2E-08	15	2.3E-08	2.6E-08	3.0E-08	3.6E-08	4.2E-08	5.0E-08	5.9E-08	7.1E-08	8.7E-08	1.1E-07	1.5E-07	2.1E-07	3.2E-07	5.4E-07	1.0E-06	1.7E-06	6.8E-07	4.6E-07	4.2E-07	4.7E-07	2.7E-07
3_1	85-01-8	Phenanthrene	6.93E-02	No	1.0E-06	15	1.0E-06	1.2E-06	1.4E-06	1.6E-06	1.9E-06	2.2E-06	2.6E-06	3.2E-06	3.9E-06	4.9E-06	6.5E-06	9.3E-06	1.4E-05	2.4E-05	4.5E-05	7.7E-05	3.0E-05	2.1E-05	1.9E-05	2.1E-05	1.2E-05
3_1	86-73-7	Fluorene	1.41E-03	No	2.0E-08	15	2.1E-08	2.4E-08	2.8E-08	3.2E-08	3.8E-08	4.5E-08	5.4E-08	6.5E-08	8.0E-08	1.0E-07	1.3E-07	1.9E-07	2.9E-07	4.9E-07	9.2E-07	1.6E-06	6.2E-07	4.2E-07	3.9E-07	4.3E-07	2.5E-07
3_1	91-20-3	Naphthalene	8.31E-04	No	1.2E-08	15	1.2E-08	1.4E-08	1.6E-08	1.9E-08	2.3E-08	2.7E-08	3.2E-08	3.8E-08	4.7E-08	5.9E-08	7.9E-08	1.1E-07	1.7E-07	2.9E-07	5.4E-07	9.2E-07	3.6E-07	2.5E-07	2.3E-07	2.5E-07	1.5E-07
3_1	91-57-6	2-Methylnaphthalene	3.34E-03	No	4.8E-08	15	4.9E-08	5.7E-08	6.6E-08	7.7E-08	9.1E-08	1.1E-07	1.3E-07	1.5E-07	1.9E-07	2.4E-07	3.2E-07	4.5E-07	6.9E-07	1.2E-06	2.2E-06	3.7E-06	1.5E-06	1.0E-06	9.2E-07	1.0E-06	5.9E-07
3_1	95-47-6	o-Xylene	1.01E-04	No	1.5E-09	15	1.5E-09	1.7E-09	2.0E-09	2.3E-09	2.8E-09	3.3E-09	3.9E-09	4.7E-09	5.7E-09	7.2E-09	9.6E-09	1.4E-08	2.1E-08	3.5E-08	6.6E-08	1.1E-07	4.4E-08	3.0E-08	2.8E-08	3.1E-08	1.8E-08
3_1	95-50-1	1,2-Dichlorobenzene	2.35E-04	No	3.4E-09	15	3.4E-09	4.0E-09	4.6E-09	5.4E-09	6.4E-09	7.5E-09	9.0E-09	1.1E-08	1.3E-08	1.7E-08	2.2E-08	3.2E-08	4.8E-08	8.2E-08	1.5E-07	2.6E-07	1.0E-07	7.0E-08	6.5E-08	7.1E-08	4.1E-08
3_1	95-63-6	1,2,4-Trimethylbenzene	7.84E-04	No	1.1E-08	15	1.2E-08	1.3E-08	1.5E-08	1.8E-08	2.1E-08	2.5E-08	3.0E-08	3.6E-08	4.4E-08	5.6E-08	7.4E-08	1.1E-07	1.6E-07	2.7E-07	5.1E-07	8.7E-07	3.4E-07	2.3E-07	2.2E-07	2.4E-07	1.4E-07
3_1	98-82-8	1-METHYLETHYLBENZENE	2.59E-04	No	3.7E-09	15	3.8E-09	4.4E-09	5.1E-09	6.0E-09	7.1E-09	8.3E-09	9.9E-09	1.2E-08	1.5E-08	1.8E-08	2.5E-08	3.5E-08	5.3E-08	9.0E-08	1.7E-07	2.9E-07	1.1E-07	7.8E-08	7.1E-08	7.8E-08	4.6E-08
3_1	1031-07-8	Endosulfan sulfate	2.89E-06	No	4.2E-11	15	4.2E-11	4.9E-11	5.7E-11	6.6E-11	7.9E-11	9.3E-11	1.1E-10	1.3E-10	1.6E-10	2.1E-10	2.7E-10	3.9E-10	5.9E-10	1.0E-09	1.9E-09	3.2E-09	1.3E-09	8.6E-10	7.9E-10	8.7E-10	5.1E-10
3_1	106-42-3	P-XYLENE	3.76E-05	No	5.4E-10	15	5.5E-10	6.4E-10	7.4E-10	8.7E-10	1.0E-09	1.2E-09	1.4E-09	1.7E-09	2.1E-09	2.7E-09	3.6E-09	5.1E-09	7.7E-09	1.3E-08	2.5E-08	4.2E-08	1.6E-08	1.1E-08	1.0E-08	1.1E-08	6.6E-09
3_1	106-93-4	1,2-Dibromoethane	4.10E-06	No	5.9E-11	15	6.0E-11	7.0E-11	8.1E-11	9.4E-11	1.1E-10	1.3E-10	1.6E-10	1.9E-10	2.3E-10	2.9E-10	3.9E-10	5.5E-10	8.4E-10	1.4E-09	2.7E-09	4.5E-09	1.8E-09	1.2E-09	1.1E-09	1.2E-09	7.2E-10
3_1	108-38-3	M-XYLENE	4.37E-04	No	6.3E-09	15	6.4E-09	7.4E-09	8.6E-09	1.0E-08	1.2E-08	1.4E-08	1.7E-08	2.0E-08	2.5E-08	3.1E-08	4.1E-08	5.9E-08	9.0E-08	1.5E-07	2.9E-07	4.8E-07	1.9E-07	1.3E-07	1.2E-07	1.3E-07	7.7E-08
3_1	108-90-7	Chlorobenzene	1.34E-06	No	1.9E-11	15	2.0E-11	2.3E-11	2.6E-11	3.1E-11	3.7E-11	4.3E-11	5.1E-11	6.2E-11	7.6E-11	9.6E-11	1.3E-10	1.8E-10	2.8E-10	4.7E-10	8.8E-10	1.5E-09	5.9E-10	4.0E-10	3.7E-10	4.1E-10	2.4E-10
3_1	11097-69-1	Aroclor 1254	1.01E-05	No	1.4E-10	15	1.5E-10	1.7E-10	2.0E-10	2.3E-10	2.7E-10	3.2E-10	3.8E-10	4.6E-10	5.7E-10	7.2E-10	9.5E-10	1.4E-09	2.1E-09	3.5E-09	6.6E-09	1.1E-08	4.4E-09	3.0E-09	2.8E-09	3.0E-09	1.8E-09
3_1	120-82-1	1,2,4-Trichlorobenzene	6.72E-07	No	9.7E-12	15	9.9E-12	1.1E-11	1.3E-11	1.5E-11	1.8E-11	2.2E-11	2.6E-11	3.1E-11	3.8E-11	4.8E-11	6.3E-11	9.0E-11	1.4E-10	2.3E-10	4.4E-10	7.4E-10	2.9E-10	2.0E-10	1.8E-10	2.0E-10	1.2E-10
3_1	127-18-4	Tetrachloroethene	5.24E-06	No	7.5E-11	15	7.7E-11	8.9E-11	1.0E-10	1.2E-10	1.4E-10	1.7E-10	2.0E-10	2.4E-10	3.0E-10	3.7E-10	5.0E-10	7.0E-10	1.1E-09	1.8E-09	3.4E-09	5.8E-09	2.3E-09	1.6E-09	1.4E-09	1.6E-09	9.2E-10
3_1	33213-65-9	Endosulfan II	7.39E-06	No	1.1E-10	15	1.1E-10	1.3E-10	1.5E-10	1.7E-10	2.0E-10	2.4E-10	2.8E-10	3.4E-10	4.2E-10	5.3E-10	7.0E-10	9.9E-10	1.5E-09	2.6E-09	4.8E-09	8.2E-09	3.2E-09	2.2E-09	2.0E-09	2.2E-09	1.3E-09
3_1	5103-74-2	GAMMA-CHLORDANE	1.14E-05	No	1.6E-10	15	1.7E-10	1.9E-10	2.3E-10	2.6E-10	3.1E-10	3.7E-10	4.4E-10	5.2E-10	6.4E-10	8.1E-10	1.1E-09	1.5E-09	2.3E-09	4.0E-09	7.5E-09	1.3E-08	5.0E-09	3.4E-09	3.1E-09	3.4E-09	2.0E-09
3_1	53494-70-5	Endrin ketone	1.61E-06	No	2.3E-11	15	2.4E-11	2.7E-11	3.2E-11	3.7E-11	4.4E-11	5.2E-11	6.1E-11	7.4E-11	9.1E-11	1.1E-10	1.5E-10	2.2E-10	3.3E-10	5.6E-10	1.1E-09	1.8E-09	7.1E-10	4.8E-10	4.4E-10	4.9E-10	2.8E-10
3_1	591-78-6	2-Hexanone	2.28E-06	No	3.3E-11	15	3.4E-11	3.9E-11	4.5E-11	5.3E-11	6.2E-11	7.3E-11	8.7E-11	1.0E-10	1.3E-10	1.6E-10	2.2E-10	3.1E-10	4.7E-10	7.9E-10	1.5E-09	2.5E-09	1.0E-09	6.8E-10	6.3E-10	6.9E-10	4.0E-10

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3_1	75-35-4	1,1-Dichloroethene	2.89E-06	No	4.2E-11	15	4.2E-11	4.9E-11	5.7E-11	6.6E-11	7.9E-11	9.3E-11	1.1E-10	1.3E-10	1.6E-10	2.1E-10	2.7E-10	3.9E-10	5.9E-10	1.0E-09	1.9E-09	3.2E-09	1.3E-09	8.6E-10	7.9E-10	8.7E-10	5.1E-10
3_1	79-34-5	1,1,2,2-Tetrachloroethane	1.95E-06	No	2.8E-11	15	2.9E-11	3.3E-11	3.8E-11	4.5E-11	5.3E-11	6.2E-11	7.4E-11	8.9E-11	1.1E-10	1.4E-10	1.8E-10	2.6E-10	4.0E-10	6.8E-10	1.3E-09	2.2E-09	8.5E-10	5.8E-10	5.4E-10	5.9E-10	3.4E-10
3_1	87-61-6	1,2,3-Trichlorobenzene	8.74E-07	No	1.3E-11	15	1.3E-11	1.5E-11	1.7E-11	2.0E-11	2.4E-11	2.8E-11	3.3E-11	4.0E-11	4.9E-11	6.2E-11	8.3E-11	1.2E-10	1.8E-10	3.0E-10	5.7E-10	9.7E-10	3.8E-10	2.6E-10	2.4E-10	2.6E-10	1.5E-10
3_1	96-12-8	1,2-Dibromo-3-Chloropropane	3.96E-06	No	5.7E-11	15	5.8E-11	6.7E-11	7.8E-11	9.1E-11	1.1E-10	1.3E-10	1.5E-10	1.8E-10	2.2E-10	2.8E-10	3.7E-10	5.3E-10	8.2E-10	1.4E-09	2.6E-09	4.4E-09	1.7E-09	1.2E-09	1.1E-09	1.2E-09	7.0E-10
3_2	100-41-4	Ethylbenzene	2.27E-03	No	3.3E-08	16	2.6E-07	4.7E-07	6.2E-07	7.1E-07	7.8E-07	8.5E-07	9.0E-07	9.1E-07	9.1E-07	8.9E-07	9.0E-07	9.3E-07	9.6E-07	9.7E-07	9.5E-07	9.1E-07	3.2E-07	2.6E-07	2.2E-07	4.0E-07	4.2E-07
3_2	100-42-5	Styrene	3.21E-04	No	4.6E-09	16	3.7E-08	6.7E-08	8.8E-08	1.0E-07	1.1E-07	1.2E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.4E-07	1.4E-07	1.3E-07	1.3E-07	4.5E-08	3.7E-08	3.2E-08	5.6E-08	6.0E-08
3_2	103-65-1	n-Propylbenzene	1.51E-03	No	2.2E-08	16	1.7E-07	3.1E-07	4.1E-07	4.7E-07	5.2E-07	5.6E-07	5.9E-07	6.1E-07	6.0E-07	5.9E-07	6.0E-07	6.2E-07	6.4E-07	6.4E-07	6.3E-07	6.0E-07	2.1E-07	1.7E-07	1.5E-07	2.6E-07	2.8E-07
3_2	104-51-8	n-Butylbenzene	1.76E-04	No	2.5E-09	16	2.0E-08	3.7E-08	4.8E-08	5.5E-08	6.1E-08	6.6E-08	7.0E-08	7.1E-08	7.0E-08	6.9E-08	7.0E-08	7.2E-08	7.4E-08	7.5E-08	7.4E-08	7.1E-08	2.5E-08	2.0E-08	1.7E-08	3.1E-08	3.3E-08
3_2	108-67-8	1,3,5-Trimethylbenzene	1.08E-03	No	1.5E-08	16	1.2E-07	2.2E-07	3.0E-07	3.4E-07	3.7E-07	4.0E-07	4.2E-07	4.3E-07	4.3E-07	4.2E-07	4.3E-07	4.4E-07	4.5E-07	4.6E-07	4.5E-07	4.3E-07	1.5E-07	1.2E-07	1.1E-07	1.9E-07	2.0E-07
3_2	108-88-3	Toluene	7.31E-04	No	1.1E-08	16	8.4E-08	1.5E-07	2.0E-07	2.3E-07	2.5E-07	2.7E-07	2.9E-07	2.9E-07	2.9E-07	2.9E-07	2.9E-07	3.0E-07	3.1E-07	3.1E-07	3.1E-07	2.9E-07	1.0E-07	8.3E-08	7.2E-08	1.3E-07	1.4E-07
3_2	11096-82-5	Aroclor 1260	1.01E-04	No	1.5E-09	16	1.2E-08	2.1E-08	2.8E-08	3.2E-08	3.5E-08	3.8E-08	4.0E-08	4.1E-08	4.0E-08	4.0E-08	4.0E-08	4.1E-08	4.3E-08	4.3E-08	4.2E-08	4.1E-08	1.4E-08	1.2E-08	1.0E-08	1.8E-08	1.9E-08
3_2	120-12-7	Anthracene	4.55E-03	No	6.5E-08	16	5.2E-07	9.5E-07	1.2E-06	1.4E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.8E-06	1.8E-06	1.9E-06	1.9E-06	1.9E-06	1.9E-06	1.8E-06	6.4E-07	5.2E-07	4.5E-07	8.0E-07	8.4E-07
3_2	129-00-0	Pyrene	1.26E-03	No	1.8E-08	16	1.5E-07	2.6E-07	3.5E-07	3.9E-07	4.3E-07	4.7E-07	5.0E-07	5.1E-07	5.0E-07	4.9E-07	5.0E-07	5.1E-07	5.3E-07	5.4E-07	5.3E-07	5.0E-07	1.8E-07	1.4E-07	1.2E-07	2.2E-07	2.3E-07
3_2	1330-20-7	XYLENES (TOTAL)	1.46E-02	No	2.1E-07	16	1.7E-06	3.0E-06	4.0E-06	4.6E-06	5.0E-06	5.4E-06	5.8E-06	5.9E-06	5.8E-06	5.7E-06	5.8E-06	6.0E-06	6.2E-06	6.2E-06	6.1E-06	5.8E-06	2.1E-06	1.7E-06	1.4E-06	2.6E-06	2.7E-06
3_2	135-98-8	(1-METHYLPROPYL)BENZENE	1.21E-03	No	1.7E-08	16	1.4E-07	2.5E-07	3.3E-07	3.8E-07	4.2E-07	4.5E-07	4.8E-07	4.9E-07	4.8E-07	4.8E-07	4.8E-07	5.0E-07	5.1E-07	5.2E-07	5.1E-07	4.8E-07	1.7E-07	1.4E-07	1.2E-07	2.1E-07	2.2E-07
3_2	179601-23-1	m,p-Xylenes	2.14E-03	No	3.1E-08	16	2.5E-07	4.5E-07	5.9E-07	6.7E-07	7.4E-07	8.0E-07	8.4E-07	8.6E-07	8.5E-07	8.4E-07	8.5E-07	8.8E-07	9.0E-07	9.2E-07	9.0E-07	8.6E-07	3.0E-07	2.4E-07	2.1E-07	3.8E-07	4.0E-07
3_2	67-64-1	2-PROPANONE	2.04E-04	No	2.9E-09	16	2.4E-08	4.3E-08	5.6E-08	6.4E-08	7.0E-08	7.6E-08	8.1E-08	8.2E-08	8.1E-08	8.0E-08	8.1E-08	8.4E-08	8.6E-08	8.7E-08	8.6E-08	8.2E-08	2.9E-08	2.3E-08	2.0E-08	3.6E-08	3.8E-08
3_2	71-43-2	Benzene	1.82E-04	No	2.6E-09	16	2.1E-08	3.8E-08	5.0E-08	5.7E-08	6.3E-08	6.8E-08	7.2E-08	7.3E-08	7.3E-08	7.2E-08	7.2E-08	7.4E-08	7.7E-08	7.8E-08	7.6E-08	7.3E-08	2.6E-08	2.1E-08	1.8E-08	3.2E-08	3.4E-08
3_2	7421-93-4	Endrin aldehyde	5.67E-06	No	8.2E-11	16	6.5E-10	1.2E-09	1.6E-09	1.8E-09	2.0E-09	2.1E-09	2.2E-09	2.3E-09	2.3E-09	2.2E-09	2.3E-09	2.3E-09	2.4E-09	2.4E-09	2.4E-09	2.3E-09	8.0E-10	6.5E-10	5.6E-10	1.0E-09	1.1E-09
3_2	7439-98-7	Molybdenum	3.72E-03	No	5.4E-08	16	4.3E-07	7.8E-07	1.0E-06	1.2E-06	1.3E-06	1.4E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.5E-06	5.2E-07	4.3E-07	3.7E-07	6.5E-07	6.9E-07
3_2	75-09-2	Methylene Chloride	1.74E-05	No	2.5E-10	16	2.0E-09	3.6E-09	4.8E-09	5.4E-09	6.0E-09	6.5E-09	6.9E-09	7.0E-09	6.9E-09	6.8E-09	6.9E-09	7.1E-09	7.3E-09	7.4E-09	7.3E-09	7.0E-09	2.4E-09	2.0E-09	1.7E-09	3.1E-09	3.2E-09
3_2	75-69-4	Trichlorofluoromethane	1.53E-04	No	2.2E-09	16	1.8E-08	3.2E-08	4.2E-08	4.8E-08	5.2E-08	5.7E-08	6.0E-08	6.1E-08	6.1E-08	6.0E-08	6.1E-08	6.2E-08	6.4E-08	6.5E-08	6.4E-08	6.1E-08	2.1E-08	1.7E-08	1.5E-08	2.7E-08	2.8E-08
3_2	78-93-3	2-Butanone	4.01E-05	No	5.8E-10	16	4.6E-09	8.4E-09	1.1E-08	1.3E-08	1.4E-08	1.5E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.7E-08	1.7E-08	1.7E-08	1.6E-08	5.6E-09	4.6E-09	4.0E-09	7.0E-09	7.4E-09
3_2	83-32-9	Acenaphthene	6.16E-03	No	8.9E-08	16	7.1E-07	1.3E-06	1.7E-06	1.9E-06	2.1E-06	2.3E-06	2.4E-06	2.5E-06	2.5E-06	2.4E-06	2.4E-06	2.5E-06	2.6E-06	2.6E-06	2.6E-06	2.5E-06	8.6E-07	7.0E-07	6.1E-07	1.1E-06	1.1E-06
3_2	85-01-8	Phenanthrene	2.76E-01	No	4.0E-06	16	3.2E-05	5.8E-05	7.6E-05	8.6E-05	9.5E-05	1.0E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.2E-04	1.2E-04	1.2E-04	1.1E-04	3.9E-05	3.2E-05	2.7E-05	4.8E-05	5.1E-05
3_2	86-73-7	Fluorene	5.62E-03	No	8.1E-08	16	6.5E-07	1.2E-06	1.5E-06	1.8E-06	1.9E-06	2.1E-06	2.2E-06	2.3E-06	2.2E-06	2.2E-06	2.2E-06	2.3E-06	2.4E-06	2.4E-06	2.4E-06	2.2E-06	7.9E-07	6.4E-07	5.6E-07	9.9E-07	1.0E-06
3_2	91-20-3	Naphthalene	3.31E-03	No	4.8E-08	16	3.8E-07	6.9E-07	9.1E-07	1.0E-06	1.1E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	4.7E-07	3.8E-07	3.3E-07	5.8E-07	6.1E-07
3_2	91-57-6	2-Methylnaphthalene	1.33E-02	No	1.9E-07	16	1.5E-06	2.8E-06	3.7E-06	4.2E-06	4.6E-06	5.0E-06	5.2E-06	5.3E-06	5.3E-06	5.2E-06	5.3E-06	5.4E-06	5.6E-06	5.7E-06	5.6E-06	5.3E-06	1.9E-06	1.5E-06	1.3E-06	2.3E-06	2.5E-06
3_2	95-47-6	o-Xylene	4.04E-04	No	5.8E-09	16	4.7E-08	8.4E-08	1.1E-07	1.3E-07	1.4E-07	1.5E-07	1.6E-07	1.6E-07	1.6E-07	1.6E-07	1.6E-07	1.7E-07	1.7E-07	1.7E-07	1.7E-07	1.6E-07	5.7E-08	4.6E-08	4.0E-08	7.1E-08	7.5E-08
3_2	95-50-1	1,2-Dichlorobenzene	9.37E-04	No	1.3E-08	16	1.1E-07	2.0E-07	2.6E-07	2.9E-07	3.2E-07	3.5E-07	3.7E-07	3.8E-07	3.7E-07	3.7E-07	3.7E-07	3.8E-07	3.9E-07	4.0E-07	3.9E-07	3.7E-07	1.3E-07	1.1E-07	9.3E-08	1.6E-07	1.7E-07
3_2	95-63-6	1,2,4-Trimethylbenzene	3.12E-03	No	4.5E-08	16	3.6E-07	6.5E-07	8.6E-07	9.7E-07	1.1E-06	1.2E-06	1.2E-06	1.3E-06	1.2E-06	1.2E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.2E-06	4.4E-07	3.6E-07	3.1E-07	5.5E-07	5.8E-07
3_2	98-82-8	1-METHYLETHYLBENZENE	1.03E-03	No	1.5E-08	16	1.2E-07	2.2E-07	2.8E-07	3.2E-07	3.6E-07	3.8E-07	4.1E-07	4.1E-07	4.1E-07	4.1E-07	4.1E-07	4.2E-07	4.4E-07	4.4E-07	4.3E-07	4.1E-07	1.5E-07	1.2E-07	1.0E-07	1.8E-07	1.9E-07
3_2	1031-07-8	Endosulfan sulfate	1.15E-05	No	1.7E-10	16	1.3E-09	2.4E-09	3.2E-09	3.6E-09	4.0E-09	4.3E-09	4.5E-09	4.6E-09	4.6E-09	4.5E-09	4.6E-09	4.7E-09	4.8E-09	4.9E-09	4.8E-09	4.6E-09	1.6E-09	1.3E-09	1.1E-09	2.0E-09	2.1E-09
3_2	106-42-3	P-XYLENE	1.50E-04	No	2.2E-09	16	1.7E-08	3.1E-08	4.1E-08	4.7E-08	5.2E-08	5.6E-08	5.9E-08	6.0E-08	6.0E-08	5.9E-08	5.9E-08	6.1E-08	6.3E-08	6.4E-08	6.3E-08	6.0E-08	2.1E-08	1.7E-08	1.5E-08	2.6E-08	2.8E-08
3_2	106-93-4	1,2-Dibromoethane	1.63E-05	No	2.3E-10	16	1.9E-09	3.4E-09	4.5E-09	5.1E-09	5.6E-09	6.1E-09	6.4E-09	6.6E-09	6.5E-09	6.4E-09	6.5E-09	6.7E-09	6.9E-09	7.0E-09	6.8E-09	6.5E-09	2.3E-09	1.9E-09	1.6E-09	2.9E-09	3.0E-09
3_2	108-38-3	M-XYLENE	1.74E-03	No	2.5E-08	16	2.0E-07	3.6E-07	4.8E-07	5.4E-07	6.0E-07	6.5E-07	6.9E-07	7.0E-07	6.9E-07	6.8E-07	6.9E-07	7.1E-07	7.3E-07	7.4E-07	7.3E-07	7.0E-07	2.4E-07	2.0E-07	1.7E-07	3.1E-07	3.2E-07
3_2	108-90-7	Chlorobenzene	5.35E-06	No	7.7E-11	16	6.2E-10	1.1E-09	1.5E-09	1.7E-09	1.8E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	2.1E-09	2.1E-09	2.2E-09	2.3E-09	2.3E-09	2.2E-09	2.1E-09	7.5E-10	6.1E-10	5.3E-10	9.4E-10	9.9E-10
3_2	11097-69-1	Aroclor 1254	4.01E-05	No	5.8E-10	16	4.6E-09	8.4E-09	1.1E-08	1.3E-08	1.4E-08	1.5E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.7E-08	1.7E-08	1.7E-08	1.6E-08	5.6E-09	4.6E-09	4.0E-09	7.0E-09	7.4E-09
3_2	120-82-1	1,2,4-Trichlorobenzene	2.68E-06	No	3.8E-11	16	3.1E-10	5.6E-10	7.4E-10	8.4E-10	9.2E-10	1.0E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	3.8E-10	3.1E-10	2.6E-10	4.7E-10	5.0E-10
3_2	127-18-4	Tetrachloroethene	2.09E-05	No	3.0E-10	16	2.4E-09	4.4E-09	5.7E-09	6.5E-09	7.2E-09	7.8E-09	8.2E-09	8.4E-09	8.3E-09	8.2E-09	8.3E-09	8.5E-09	8.8E-09	8.9E-09	8.7E-09	8.3E-09	2.9E-09	2.4E-09	2.1E-09	3.7E-09	3.9E-09
3_2	33213-65-9	Endosulfan II	2.94E-05	No	4.2E-10	16	3.4E-09	6.1E-09	8.1E-09	9.2E-09	1.0E-08	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.3E-08	1.2E-08	1.2E-08	4.1E-09	3.4E-09	2.9E-09	5.2E-09	5.5E-09
3_2	5103-74-2	GAMMA-CHLORDANE	4.55E-05	No	6.5E-10	16	5.2E-09	9.5E-09	1.2E-08	1.4E-08	1.6E-08	1.7E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.9E-08	1.9E-08	1.9E-08	1.9E-08	1.8E-08	6.4E-09	5.2E-09	4.5E-09	8.0E-09	8.4E-09
3_2	53494-70-5	Endrin ketone	6.42E-06	No	9.2E-11	16	7.4E-10	1.3E-09	1.8E-09	2.0E-09	2.2E-09	2.4E-09	2.5E-09	2.6E-09	2.6E-09	2.5E-09	2.5E-09	2.6E-09	2.7E-09	2.7E-09	2.7E-09	2.6E-09	9.0E-10	7.3E-10	6.3E-10	1.1E-09	1.2E-09
3_2	591-78-6	2-Hexanone	9.10E-06	No	1.3E-10	16	1.0E-09	1.9E-09	2.5E-09	2.8E-09	3.1E-09	3.4E-09	3.6E-09	3.7E-09	3.6E-09	3.6E-09	3.6E-09	3.7E-09	3.8E-09	3.9E-09	3.8E-09	3.6E-09	1.3E-09	1.0E-09	9.0E-10	1.6E-09	1.7E-09
3_2	75-35-4	1,1-Dichloroethene	1.15E-05	No	1.7E-10	16	1.3E-09	2.4E-09	3.2E-09	3.6E-09	4.0E-09	4.3E-09	4.5E-09	4.6E-09	4.6E-09	4.5E-09	4.6E-09	4.7E-09	4.8E-09	4.9E-09	4.8E-09	4.6E-09	1.6E-09	1.3E-09	1.1E-09	2.0E-09	2.1E-09
3_2	79-34-5	1,1,2,2-Tetrachloroethane	7.76E-06	No	1.1E-10	16	9.0E-10	1.6E-09	2.1E-09	2.4E-09	2.7E-09	2.9E-09	3.1E-09	3.1E-09	3.1E-09	3.0E-09	3.1E-09	3.2E-09	3.3E-09	3.3E-09	3.2E-09	3.1E-09	1.1E-09	8.9E-10	7.7E-10	1.4E-09	1.4E-09
3_2	87-61-6	1,2,3-Trichlorobenzene	3.48E-06	No	5.0E-11	16	4.0E-10	7.3E-10	9.6E-10	1.1E-09	1.2E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.5E-09	1.5E-09	1.5E-09	1.4E-09	4.9E-10	4.0E-10	3.4E-10	6.1E-10	6.5E-10
3_2	96-12-8	1,2-Dibromo-3-Chloropropane	1.58E-05	No	2.3E-10	16	1.8E-09	3.3E-09	4.3E-09	4.9E-09	5.4E-09	5.9E-09	6.2E-09	6.3E-09	6.3E-09	6.2E-09	6.3E-09	6.4E-09	6.7E-09	6.7E-09	6.6E-09	6.3E-09	2.2E-09	1.8E-09	1.6E-09	2.8E-09	2.9E-09
5	100-41-4	Ethylbenzene	1.68E-04	No	2.4E-09	9	1.9E-08	3.5E-08	4.6E-08	5.2E-08	5.8E-08	6.3E-08	6.6E-08	6.7E-08	6.7E-08	6.6E-08	6.7E-08	6.9E-08	7.1E-08	7.2E-08	7.0E-08	6.7E-08	2.4E-08	1.9E-08	1.7E-08	2.9E-08	3.1E-08
5	100-42-5	Styrene	2.37E-05	No	3.4E-10	9	2.7E-09	5.0E-09	6.5E-09	7.4E-09	8.2E-09	8.8E-09	9.4E-09	9.5E-09	9.5E-09	9.3E-09	9.4E-09	9.7E-09	1.0E-08	1.0E-08	9.9E-09	9.5E-09	3.3E-09	2.7E-09	2.3E-09	4.2E-09	4.4E-09
5	103-65-1	n-Propylbenzene	1.12E-04	No	1.6E-09	9	1.3E-08	2.3E-08	3.1E-08	3.5E-08	3.8E-08	4.2E-08	4.4E-08	4.5E-08	4.4E-08	4.4E-08	4.4E-08	4.6E-08	4.7E-08	4.8E-08	4.7E-08	4.5E-08	1.6E-08	1.3E-08	1.1E-08	2.0E-08	2.1E-08
5	104-51-8	n-Butylbenzene	1.30E-05	No	1.9E-10	9	1.5E-09	2.7E-09	3.6E-09	4.1E-09	4.5E-09	4.9E-09	5.1E-09	5.2E-09	5.2E-09	5.1E-09	5.2E-09	5.3E-09	5.5E-09	5.6E-09	5.5E-09	5.2E-09	1.8E-09	1.5E-09	1.3E-09	2.3E-09	2.4E-09
5	108-67-8	1,3,5-Trimethylbenzene	7.96E-05	No	1.1E-09	9	9.2E-09	1.7E-08	2.2E-08	2.5E-08	2.7E-08	3.0E-08	3.1E-08	3.2E-08	3.2E-08	3.1E-08	3.2E-08	3.2E-08	3.4E-08	3.4E-08	3.3E-08	3.2E-08	1.1E-08	9.1E-09	7.9E-09	1.4E-08	1.5E-08
5	108-88-3	Toluene	5.40E-05	No	7.8E-10	9	6.2E-09	1.1E-08	1.5E-08	1.7E-08	1.9E-08	2.0E-08	2.1E-08	2.2E-08	2.2E-08	2.1E-08	2.1E-08	2.2E-08	2.3E-08	2.3E-08	2.3E-08	2.2E-08	7.6E-09	6.2E-09	5.3E-09	9.5E-09	1.0E-08
5	11096-82-5	Aroclor 1260	7.50E-06	No	1.1E-10	9	8.7E-10	1.6E-09	2.1E-09	2.3E-09	2.6E-09	2.8E-09	3.0E-09	3.0E-09	3.0E-09	2.9E-09	3.0E-09	3.1E-09	3.2E-09	3.2E-09	3.1E-09	3.0E-09	1.1E-09	8.6E-10	7.4E-10	1.3E-09	1.4E-09
5	120-12-7	Anthracene	3.36E-04	No	4.8E-09	9	3.9E-08	7.0E-08	9.2E-08	1.1E-07	1.2E-07	1.3E-07	1.3E-07	1.4E-07	1.3E-07	1.3E-07	1.3E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.3E-07	4.7E-08	3.8E-08	3.3E-08	5.9E-08	6.2E-08
5	129-00-0	Pyrene	9.32E-05	No	1.3E-09	9	1.1E-08	1.9E-08	2.6E-08	2.9E-08	3.2E-08	3.5E-08	3.7E-08	3.7E-08	3.7E-08	3.7E-08	3.7E-08	3.8E-08	3.9E-08	4.0E-08	3.9E-08	3.7E-08	1.3E-08	1.1E-08	9.2E-09	1.6E-08	1.7E-08
5	1330-20-7	XYLENES (TOTAL)	1.08E-03	No	1.6E-08	9	1.2E-07	2.3E-07	3.0E-07	3.4E-07	3.7E-07	4.0E-07	4.3E-07	4.3E-07	4.3E-07	4.2E-07	4.3E-07	4.4E-07	4.6E-07	4.6E-07	4.5E-07	4.3E-07	1.5E-07	1.2E-07	1.1E-07	1.9E-07	2.0E-07
5	135-98-8	(1-METHYLPROPYL)BENZENE	8.97E-05	No	1.3E-09	9	1.0E-08	1.9E-08	2.5E-08	2.8E-08	3.1E-08	3.3E-08	3.5E-08	3.6E-08	3.6E-08	3.5E-08	3.6E-08	3.7E-08	3.8E-08	3.8E-08	3.8E-08	3.6E-08	1.3E-08	1.0E-08	8.9E-09	1.6E-08	1.7E-08
5	179601-23-1	m,p-Xylenes	1.59E-04	No	2.3E-09	9	1.8E-08	3.3E-08	4.4E-08	4.9E-08	5.4E-08	5.9E-08	6.2E-08	6.4E-08	6.3E-08	6.2E-08	6.3E-08	6.5E-08	6.7E-08	6.8E-08	6.6E-08	6.3E-08	2.2E-08	1.8E-08	1.6E-08	2.8E-08	2.9E-08
5	67-64-1	2-PROPANONE	1.51E-05	No	2.2E-10	9	1.7E-09	3.2E-09	4.2E-09	4.7E-09	5.2E-09	5.6E-09	6.0E-09	6.1E-09	6.0E-09	5.9E-09	6.0E-09	6.2E-09	6.4E-09	6.5E-09	6.3E-09	6.0E-09	2.1E-09	1.7E-09	1.5E-09	2.7E-09	2.8E-09
5	71-43-2	Benzene	1.35E-05	No	1.9E-10	9	1.6E-09	2.8E-09	3.7E-09	4.2E-09	4.6E-09	5.0E-09	5.3E-09	5.4E-09	5.4E-09	5.3E-09	5.3E-09	5.5E-09	5.7E-09	5.8E-09	5.6E-09	5.4E-09	1.9E-09	1.5E-09	1.3E-09	2.4E-09	2.5E-09
5	7421-93-4	Endrin aldehyde	4.20E-07	No	6.0E-12	9	4.8E-11	8.7E-11	1.2E-10	1.3E-10	1.4E-10	1.6E-10	1.7E-10	1.7E-10	1.7E-10	1.6E-10	1.7E-10	1.7E-10	1.8E-10	1.8E-10	1.8E-10	1.7E-10	5.9E-11	4.8E-11	4.1E-11	7.4E-11	7.8E-11
5	7439-98-7	Molybdenum	2.75E-04	No	4.0E-09	9	3.2E-08	5.7E-08	7.6E-08	8.6E-08	9.5E-08	1.0E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.2E-07	1.2E-07	1.2E-07	1.1E-07	3.9E-08	3.1E-08	2.7E-08	4.8E-08	5.1E-08
5	75-09-2	Methylene Chloride	1.29E-06	No	1.9E-11	9	1.5E-10	2.7E-10	3.5E-10	4.0E-10	4.4E-10	4.8E-10	5.1E-10	5.2E-10	5.1E-10	5.1E-10	5.1E-10	5.3E-10	5.4E-10	5.5E-10	5.4E-10	5.2E-10	1.8E-10	1.5E-10	1.3E-10	2.3E-10	2.4E-10
5	75-69-4	Trichlorofluoromethane	1.13E-05	No	1.6E-10	9	1.3E-09	2.4E-09	3.1E-09	3.5E-09	3.9E-09	4.2E-09	4.4E-09	4.5E-09	4.5E-09	4.4E-09	4.5E-09	4.6E-09	4.8E-09	4.8E-09	4.7E-09	4.5E-09	1.6E-09	1.3E-09	1.1E-09	2.0E-09	2.1E-09
5	78-93-3	2-Butanone	2.97E-06	No	4.3E-11	9	3.4E-10	6.2E-10	8.2E-10	9.3E-10	1.0E-09	1.1E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.3E-09	1.3E-09	1.2E-09	1.2E-09	4.2E-10	3.4E-10	2.9E-10	5.2E-10	5.5E-10
5	83-32-9	Acenaphthene	4.55E-04	No	6.5E-09	9	5.3E-08	9.5E-08	1.3E-07	1.4E-07	1.6E-07	1.7E-07	1.8E-07	1.8E-07	1.8E-07	1.8E-07	1.8E-07	1.9E-07	1.9E-07	1.9E-07	1.9E-07	1.8E-07	6.4E-08	5.2E-08	4.5E-08	8.0E-08	8.4E-08

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
5	85-01-8	Phenanthrene	2.04E-02	No	2.9E-07	9	2.4E-06	4.3E-06	5.6E-06	6.4E-06	7.0E-06	7.6E-06	8.0E-06	8.2E-06	8.1E-06	8.0E-06	8.1E-06	8.3E-06	8.6E-06	8.7E-06	8.5E-06	8.2E-06	2.9E-06	2.3E-06	2.0E-06	3.6E-06	3.8E-06
5	86-73-7	Fluorene	4.16E-04	No	6.0E-09	9	4.8E-08	8.7E-08	1.1E-07	1.3E-07	1.4E-07	1.5E-07	1.6E-07	1.7E-07	1.7E-07	1.6E-07	1.6E-07	1.7E-07	1.8E-07	1.8E-07	1.7E-07	1.7E-07	5.8E-08	4.7E-08	4.1E-08	7.3E-08	7.7E-08
5	91-20-3	Naphthalene	2.45E-04	No	3.5E-09	9	2.8E-08	5.1E-08	6.7E-08	7.6E-08	8.4E-08	9.1E-08	9.6E-08	9.8E-08	9.8E-08	9.6E-08	9.7E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	9.8E-08	3.4E-08	2.8E-08	2.4E-08	4.3E-08	4.5E-08
5	91-57-6	2-Methylnaphthalene	9.84E-04	No	1.4E-08	9	1.1E-07	2.1E-07	2.7E-07	3.1E-07	3.4E-07	3.7E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	4.0E-07	4.1E-07	4.2E-07	4.1E-07	3.9E-07	1.4E-07	1.1E-07	9.7E-08	1.7E-07	1.8E-07
5	95-47-6	o-Xylene	2.99E-05	No	4.3E-10	9	3.4E-09	6.2E-09	8.2E-09	9.3E-09	1.0E-08	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.2E-08	4.2E-09	3.4E-09	3.0E-09	5.2E-09	5.5E-09
5	95-50-1	1,2-Dichlorobenzene	6.93E-05	No	1.0E-09	9	8.0E-09	1.4E-08	1.9E-08	2.2E-08	2.4E-08	2.6E-08	2.7E-08	2.8E-08	2.8E-08	2.7E-08	2.7E-08	2.8E-08	2.9E-08	3.0E-08	2.9E-08	2.8E-08	9.7E-09	7.9E-09	6.8E-09	1.2E-08	1.3E-08
5	95-63-6	1,2,4-Trimethylbenzene	2.31E-04	No	3.3E-09	9	2.7E-08	4.8E-08	6.3E-08	7.2E-08	7.9E-08	8.6E-08	9.1E-08	9.3E-08	9.2E-08	9.1E-08	9.2E-08	9.4E-08	9.7E-08	9.9E-08	9.7E-08	9.2E-08	3.2E-08	2.6E-08	2.3E-08	4.1E-08	4.3E-08
5	98-82-8	1-METHYLETHYLBENZENE	7.64E-05	No	1.1E-09	9	8.8E-09	1.6E-08	2.1E-08	2.4E-08	2.6E-08	2.8E-08	3.0E-08	3.1E-08	3.0E-08	3.0E-08	3.0E-08	3.1E-08	3.2E-08	3.3E-08	3.2E-08	3.1E-08	1.1E-08	8.7E-09	7.5E-09	1.3E-08	1.4E-08
5	1031-07-8	Endosulfan sulfate	8.51E-07	No	1.2E-11	9	9.8E-11	1.8E-10	2.3E-10	2.7E-10	2.9E-10	3.2E-10	3.4E-10	3.4E-10	3.4E-10	3.3E-10	3.4E-10	3.5E-10	3.6E-10	3.6E-10	3.6E-10	3.4E-10	1.2E-10	9.7E-11	8.4E-11	1.5E-10	1.6E-10
5	106-42-3	P-XYLENE	1.11E-05	No	1.6E-10	9	1.3E-09	2.3E-09	3.0E-09	3.5E-09	3.8E-09	4.1E-09	4.4E-09	4.4E-09	4.4E-09	4.4E-09	4.4E-09	4.5E-09	4.7E-09	4.7E-09	4.6E-09	4.4E-09	1.6E-09	1.3E-09	1.1E-09	1.9E-09	2.1E-09
5	106-93-4	1,2-Dibromoethane	1.21E-06	No	1.7E-11	9	1.4E-10	2.5E-10	3.3E-10	3.8E-10	4.1E-10	4.5E-10	4.8E-10	4.8E-10	4.8E-10	4.7E-10	4.8E-10	4.9E-10	5.1E-10	5.2E-10	5.1E-10	4.8E-10	1.7E-10	1.4E-10	1.2E-10	2.1E-10	2.2E-10
5	108-38-3	M-XYLENE	1.29E-04	No	1.9E-09	9	1.5E-08	2.7E-08	3.5E-08	4.0E-08	4.4E-08	4.8E-08	5.1E-08	5.2E-08	5.1E-08	5.1E-08	5.1E-08	5.3E-08	5.4E-08	5.5E-08	5.4E-08	5.1E-08	1.8E-08	1.5E-08	1.3E-08	2.3E-08	2.4E-08
5	108-90-7	Chlorobenzene	3.96E-07	No	5.7E-12	9	4.6E-11	8.3E-11	1.1E-10	1.2E-10	1.4E-10	1.5E-10	1.6E-10	1.6E-10	1.6E-10	1.6E-10	1.6E-10	1.6E-10	1.7E-10	1.7E-10	1.7E-10	1.6E-10	5.6E-11	4.5E-11	3.9E-11	6.9E-11	7.3E-11
5	11097-69-1	Aroclor 1254	2.97E-06	No	4.3E-11	9	3.4E-10	6.2E-10	8.2E-10	9.3E-10	1.0E-09	1.1E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.3E-09	1.3E-09	1.2E-09	1.2E-09	4.2E-10	3.4E-10	2.9E-10	5.2E-10	5.5E-10
5	120-82-1	1,2,4-Trichlorobenzene	1.98E-07	No	2.8E-12	9	2.3E-11	4.1E-11	5.4E-11	6.2E-11	6.8E-11	7.4E-11	7.8E-11	7.9E-11	7.9E-11	7.8E-11	7.9E-11	8.1E-11	8.3E-11	8.5E-11	8.3E-11	7.9E-11	2.8E-11	2.3E-11	2.0E-11	3.5E-11	3.7E-11
5	127-18-4	Tetrachloroethene	1.54E-06	No	2.2E-11	9	1.8E-10	3.2E-10	4.2E-10	4.8E-10	5.3E-10	5.8E-10	6.1E-10	6.2E-10	6.1E-10	6.1E-10	6.1E-10	6.3E-10	6.5E-10	6.6E-10	6.5E-10	6.2E-10	2.2E-10	1.8E-10	1.5E-10	2.7E-10	2.9E-10
5	33213-65-9	Endosulfan II	2.18E-06	No	3.1E-11	9	2.5E-10	4.5E-10	6.0E-10	6.8E-10	7.5E-10	8.1E-10	8.6E-10	8.7E-10	8.7E-10	8.5E-10	8.6E-10	8.9E-10	9.2E-10	9.3E-10	9.1E-10	8.7E-10	3.1E-10	2.5E-10	2.2E-10	3.8E-10	4.0E-10
5	5103-74-2	GAMMA-CHLORDANE	3.36E-06	No	4.8E-11	9	3.9E-10	7.0E-10	9.2E-10	1.1E-09	1.2E-09	1.3E-09	1.3E-09	1.4E-09	1.3E-09	1.3E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.3E-09	4.7E-10	3.8E-10	3.3E-10	5.9E-10	6.2E-10
5	53494-70-5	Endrin ketone	4.75E-07	No	6.8E-12	9	5.5E-11	9.9E-11	1.3E-10	1.5E-10	1.6E-10	1.8E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10	2.0E-10	2.0E-10	2.0E-10	1.9E-10	6.7E-11	5.4E-11	4.7E-11	8.3E-11	8.8E-11
5	591-78-6	2-Hexanone	6.73E-07	No	9.7E-12	9	7.8E-11	1.4E-10	1.8E-10	2.1E-10	2.3E-10	2.5E-10	2.7E-10	2.7E-10	2.7E-10	2.6E-10	2.7E-10	2.7E-10	2.8E-10	2.9E-10	2.8E-10	2.7E-10	9.5E-11	7.7E-11	6.6E-11	1.2E-10	1.2E-10
5	75-35-4	1,1-Dichloroethene	8.51E-07	No	1.2E-11	9	9.8E-11	1.8E-10	2.3E-10	2.7E-10	2.9E-10	3.2E-10	3.4E-10	3.4E-10	3.4E-10	3.3E-10	3.4E-10	3.5E-10	3.6E-10	3.6E-10	3.6E-10	3.4E-10	1.2E-10	9.7E-11	8.4E-11	1.5E-10	1.6E-10
5	79-34-5	1,1,2,2-Tetrachloroethane	5.74E-07	No	8.3E-12	9	6.6E-11	1.2E-10	1.6E-10	1.8E-10	2.0E-10	2.1E-10	2.3E-10	2.3E-10	2.3E-10	2.3E-10	2.3E-10	2.3E-10	2.4E-10	2.5E-10	2.4E-10	2.3E-10	8.1E-11	6.6E-11	5.7E-11	1.0E-10	1.1E-10
5	87-61-6	1,2,3-Trichlorobenzene	2.57E-07	No	3.7E-12	9	3.0E-11	5.4E-11	7.1E-11	8.0E-11	8.8E-11	9.6E-11	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.1E-10	1.1E-10	1.1E-10	1.1E-10	1.0E-10	3.6E-11	2.9E-11	2.5E-11	4.5E-11	4.8E-11
5	96-12-8	1,2-Dibromo-3-Chloropropane	1.17E-06	No	1.7E-11	9	1.3E-10	2.4E-10	3.2E-10	3.6E-10	4.0E-10	4.3E-10	4.6E-10	4.7E-10	4.7E-10	4.6E-10	4.6E-10	4.8E-10	4.9E-10	5.0E-10	4.9E-10	4.7E-10	1.6E-10	1.3E-10	1.2E-10	2.0E-10	2.2E-10
7_1	100-41-4	Ethylbenzene	3.08E-05	No	4.4E-10	10	3.7E-10	3.8E-10	3.9E-10	4.1E-10	4.4E-10	5.0E-10	5.7E-10	6.6E-10	7.6E-10	8.9E-10	1.1E-09	1.2E-09	1.4E-09	1.6E-09	1.8E-09	2.0E-09	2.5E-09	2.0E-09	2.5E-09	1.5E-09	1.2E-09
7_1	100-42-5	Styrene	4.35E-06	No	6.3E-11	10	5.3E-11	5.4E-11	5.5E-11	5.8E-11	6.3E-11	7.0E-11	8.1E-11	9.3E-11	1.1E-10	1.3E-10	1.5E-10	1.7E-10	2.0E-10	2.3E-10	2.6E-10	2.9E-10	3.6E-10	2.8E-10	3.6E-10	2.1E-10	1.7E-10
7_1	103-65-1	n-Propylbenzene	2.05E-05	No	2.9E-10	10	2.5E-10	2.5E-10	2.6E-10	2.7E-10	2.9E-10	3.3E-10	3.8E-10	4.4E-10	5.1E-10	5.9E-10	7.0E-10	8.2E-10	9.4E-10	1.1E-09	1.2E-09	1.3E-09	1.7E-09	1.3E-09	1.7E-09	9.7E-10	7.9E-10
7_1	104-51-8	n-Butylbenzene	2.39E-06	No	3.4E-11	10	2.9E-11	3.0E-11	3.0E-11	3.2E-11	3.4E-11	3.9E-11	4.4E-11	5.1E-11	5.9E-11	6.9E-11	8.2E-11	9.6E-11	1.1E-10	1.2E-10	1.4E-10	1.6E-10	2.0E-10	1.5E-10	2.0E-10	1.1E-10	9.3E-11
7_1	108-67-8	1,3,5-Trimethylbenzene	1.46E-05	No	2.1E-10	10	1.8E-10	1.8E-10	1.9E-10	1.9E-10	2.1E-10	2.3E-10	2.7E-10	3.1E-10	3.6E-10	4.2E-10	5.0E-10	5.8E-10	6.7E-10	7.6E-10	8.6E-10	9.6E-10	1.2E-09	9.4E-10	1.2E-09	6.9E-10	5.7E-10
7_1	108-88-3	Toluene	9.91E-06	No	1.4E-10	10	1.2E-10	1.2E-10	1.3E-10	1.3E-10	1.4E-10	1.6E-10	1.8E-10	2.1E-10	2.5E-10	2.9E-10	3.4E-10	4.0E-10	4.5E-10	5.2E-10	5.8E-10	6.5E-10	8.1E-10	6.4E-10	8.1E-10	4.7E-10	3.8E-10
7_1	11096-82-5	Aroclor 1260	1.38E-06	No	2.0E-11	10	1.7E-11	1.7E-11	1.8E-11	1.8E-11	2.0E-11	2.2E-11	2.6E-11	2.9E-11	3.4E-11	4.0E-11	4.7E-11	5.5E-11	6.3E-11	7.2E-11	8.1E-11	9.0E-11	1.1E-10	8.9E-11	1.1E-10	6.5E-11	5.3E-11
7_1	120-12-7	Anthracene	6.17E-05	No	8.9E-10	10	7.5E-10	7.7E-10	7.9E-10	8.2E-10	8.9E-10	9.9E-10	1.1E-09	1.3E-09	1.5E-09	1.8E-09	2.1E-09	2.5E-09	2.8E-09	3.2E-09	3.6E-09	4.1E-09	5.0E-09	4.0E-09	5.1E-09	2.9E-09	2.4E-09
7_1	129-00-0	Pyrene	1.71E-05	No	2.5E-10	10	2.1E-10	2.1E-10	2.2E-10	2.3E-10	2.5E-10	2.8E-10	3.2E-10	3.6E-10	4.2E-10	5.0E-10	5.8E-10	6.8E-10	7.8E-10	8.9E-10	1.0E-09	1.1E-09	1.4E-09	1.1E-09	1.4E-09	8.1E-10	6.6E-10
7_1	1330-20-7	XYLENES (TOTAL)	1.98E-04	No	2.8E-09	10	2.4E-09	2.5E-09	2.5E-09	2.6E-09	2.8E-09	3.2E-09	3.7E-09	4.2E-09	4.9E-09	5.8E-09	6.8E-09	7.9E-09	9.1E-09	1.0E-08	1.2E-08	1.3E-08	1.6E-08	1.3E-08	1.6E-08	9.4E-09	7.7E-09
7_1	135-98-8	(1-METHYLPROPYL)BENZENE	1.64E-05	No	2.4E-10	10	2.0E-10	2.0E-10	2.1E-10	2.2E-10	2.4E-10	2.6E-10	3.0E-10	3.5E-10	4.1E-10	4.8E-10	5.6E-10	6.6E-10	7.5E-10	8.6E-10	9.6E-10	1.1E-09	1.3E-09	1.1E-09	1.3E-09	7.8E-10	6.4E-10
7_1	179601-23-1	m,p-Xylenes	2.91E-05	No	4.2E-10	10	3.5E-10	3.6E-10	3.7E-10	3.9E-10	4.2E-10	4.7E-10	5.4E-10	6.2E-10	7.2E-10	8.4E-10	9.9E-10	1.2E-09	1.3E-09	1.5E-09	1.7E-09	1.9E-09	2.4E-09	1.9E-09	2.4E-09	1.4E-09	1.1E-09
7_1	67-64-1	2-PROPANONE	2.77E-06	No	4.0E-11	10	3.4E-11	3.4E-11	3.5E-11	3.7E-11	4.0E-11	4.5E-11	5.1E-11	5.9E-11	6.9E-11	8.1E-11	9.5E-11	1.1E-10	1.3E-10	1.4E-10	1.6E-10	1.8E-10	2.3E-10	1.8E-10	2.3E-10	1.3E-10	1.1E-10
7_1	71-43-2	Benzene	2.47E-06	No	3.6E-11	10	3.0E-11	3.1E-11	3.1E-11	3.3E-11	3.6E-11	4.0E-11	4.6E-11	5.3E-11	6.1E-11	7.2E-11	8.5E-11	9.9E-11	1.1E-10	1.3E-10	1.4E-10	1.6E-10	2.0E-10	1.6E-10	2.0E-10	1.2E-10	9.6E-11
7_1	7421-93-4	Endrin aldehyde	7.69E-08	No	1.1E-12	10	9.3E-13	9.6E-13	9.8E-13	1.0E-12	1.1E-12	1.2E-12	1.4E-12	1.6E-12	1.9E-12	2.2E-12	2.6E-12	3.1E-12	3.5E-12	4.0E-12	4.5E-12	5.1E-12	6.3E-12	5.0E-12	6.3E-12	3.6E-12	3.0E-12
7_1	7439-98-7	Molybdenum	5.05E-05	No	7.3E-10	10	6.1E-10	6.3E-10	6.4E-10	6.7E-10	7.3E-10	8.1E-10	9.4E-10	1.1E-09	1.2E-09	1.5E-09	1.7E-09	2.0E-09	2.3E-09	2.6E-09	3.0E-09	3.3E-09	4.1E-09	3.3E-09	4.1E-09	2.4E-09	2.0E-09
7_1	75-09-2	Methylene Chloride	2.36E-07	No	3.4E-12	10	2.9E-12	2.9E-12	3.0E-12	3.1E-12	3.4E-12	3.8E-12	4.4E-12	5.0E-12	5.8E-12	6.9E-12	8.1E-12	9.4E-12	1.1E-11	1.2E-11	1.4E-11	1.6E-11	1.9E-11	1.5E-11	1.9E-11	1.1E-11	9.2E-12
7_1	75-69-4	Trichlorofluoromethane	2.07E-06	No	3.0E-11	10	2.5E-11	2.6E-11	2.6E-11	2.8E-11	3.0E-11	3.3E-11	3.8E-11	4.4E-11	5.1E-11	6.0E-11	7.1E-11	8.3E-11	9.5E-11	1.1E-10	1.2E-10	1.4E-10	1.7E-10	1.3E-10	1.7E-10	9.8E-11	8.0E-11
7_1	78-93-3	2-Butanone	5.44E-07	No	7.8E-12	10	6.6E-12	6.8E-12	6.9E-12	7.2E-12	7.8E-12	8.8E-12	1.0E-11	1.2E-11	1.3E-11	1.6E-11	1.9E-11	2.2E-11	2.5E-11	2.8E-11	3.2E-11	3.6E-11	4.4E-11	3.5E-11	4.5E-11	2.6E-11	2.1E-11
7_1	83-32-9	Acenaphthene	8.35E-05	No	1.2E-09	10	1.0E-09	1.0E-09	1.1E-09	1.1E-09	1.2E-09	1.3E-09	1.5E-09	1.8E-09	2.1E-09	2.4E-09	2.9E-09	3.3E-09	3.8E-09	4.3E-09	4.9E-09	5.5E-09	6.8E-09	5.4E-09	6.8E-09	3.9E-09	3.2E-09
7_1	85-01-8	Phenanthrene	3.74E-03	No	5.4E-08	10	4.5E-08	4.7E-08	4.8E-08	5.0E-08	5.4E-08	6.0E-08	6.9E-08	8.0E-08	9.3E-08	1.1E-07	1.3E-07	1.5E-07	1.7E-07	1.9E-07	2.2E-07	2.5E-07	3.1E-07	2.4E-07	3.1E-07	1.8E-07	1.5E-07
7_1	86-73-7	Fluorene	7.62E-05	No	1.1E-09	10	9.3E-10	9.5E-10	9.7E-10	1.0E-09	1.1E-09	1.2E-09	1.4E-09	1.6E-09	1.9E-09	2.2E-09	2.6E-09	3.0E-09	3.5E-09	4.0E-09	4.5E-09	5.0E-09	6.2E-09	4.9E-09	6.2E-09	3.6E-09	3.0E-09
7_1	91-20-3	Naphthalene	4.49E-05	No	6.5E-10	10	5.5E-10	5.6E-10	5.7E-10	6.0E-10	6.5E-10	7.2E-10	8.3E-10	9.6E-10	1.1E-09	1.3E-09	1.5E-09	1.8E-09	2.1E-09	2.3E-09	2.6E-09	2.9E-09	3.7E-09	2.9E-09	3.7E-09	2.1E-09	1.7E-09
7_1	91-57-6	2-Methylnaphthalene	1.80E-04	No	2.6E-09	10	2.2E-09	2.2E-09	2.3E-09	2.4E-09	2.6E-09	2.9E-09	3.3E-09	3.8E-09	4.5E-09	5.2E-09	6.2E-09	7.2E-09	8.3E-09	9.4E-09	1.1E-08	1.2E-08	1.5E-08	1.2E-08	1.5E-08	8.5E-09	7.0E-09
7_1	95-47-6	o-Xylene	5.48E-06	No	7.9E-11	10	6.7E-11	6.8E-11	7.0E-11	7.3E-11	7.9E-11	8.8E-11	1.0E-10	1.2E-10	1.4E-10	1.6E-10	1.9E-10	2.2E-10	2.5E-10	2.9E-10	3.2E-10	3.6E-10	4.5E-10	3.5E-10	4.5E-10	2.6E-10	2.1E-10
7_1	95-50-1	1,2-Dichlorobenzene	1.27E-05	No	1.8E-10	10	1.5E-10	1.6E-10	1.6E-10	1.7E-10	1.8E-10	2.0E-10	2.4E-10	2.7E-10	3.1E-10	3.7E-10	4.3E-10	5.1E-10	5.8E-10	6.6E-10	7.5E-10	8.3E-10	1.0E-09	8.2E-10	1.0E-09	6.0E-10	4.9E-10
7_1	95-63-6	1,2,4-Trimethylbenzene	4.23E-05	No	6.1E-10	10	5.1E-10	5.3E-10	5.4E-10	5.6E-10	6.1E-10	6.8E-10	7.9E-10	9.0E-10	1.0E-09	1.2E-09	1.4E-09	1.7E-09	1.9E-09	2.2E-09	2.5E-09	2.8E-09	3.5E-09	2.7E-09	3.5E-09	2.0E-09	1.6E-09
7_1	98-82-8	1-METHYLETHYLBENZENE	1.40E-05	No	2.0E-10	10	1.7E-10	1.7E-10	1.8E-10	1.9E-10	2.0E-10	2.3E-10	2.6E-10	3.0E-10	3.5E-10	4.1E-10	4.8E-10	5.6E-10	6.4E-10	7.3E-10	8.2E-10	9.2E-10	1.1E-09	9.0E-10	1.1E-09	6.6E-10	5.4E-10
7_1	1031-07-8	Endosulfan sulfate	1.56E-07	No	2.2E-12	10	1.9E-12	1.9E-12	2.0E-12	2.1E-12	2.2E-12	2.5E-12	2.9E-12	3.3E-12	3.9E-12	4.5E-12	5.3E-12	6.2E-12	7.2E-12	8.1E-12	9.2E-12	1.0E-11	1.3E-11	1.0E-11	1.3E-11	7.4E-12	6.1E-12
7_1	106-42-3	P-XYLENE	2.03E-06	No	2.9E-11	10	2.5E-11	2.5E-11	2.6E-11	2.7E-11	2.9E-11	3.3E-11	3.8E-11	4.3E-11	5.0E-11	5.9E-11	7.0E-11	8.1E-11	9.3E-11	1.1E-10	1.2E-10	1.3E-10	1.7E-10	1.3E-10	1.7E-10	9.6E-11	7.9E-11
7_1	106-93-4	1,2-Dibromoethane	2.21E-07	No	3.2E-12	10	2.7E-12	2.8E-12	2.8E-12	2.9E-12	3.2E-12	3.6E-12	4.1E-12	4.7E-12	5.5E-12	6.4E-12	7.6E-12	8.8E-12	1.0E-11	1.2E-11	1.3E-11	1.5E-11	1.8E-11	1.4E-11	1.8E-11	1.0E-11	8.6E-12
7_1	108-38-3	M-XYLENE	2.36E-05	No	3.4E-10	10	2.9E-10	2.9E-10	3.0E-10	3.1E-10	3.4E-10	3.8E-10	4.4E-10	5.0E-10	5.8E-10	6.9E-10	8.1E-10	9.4E-10	1.1E-09	1.2E-09	1.4E-09	1.6E-09	1.9E-09	1.5E-09	1.9E-09	1.1E-09	9.2E-10
7_1	108-90-7	Chlorobenzene	7.26E-08	No	1.0E-12	10	8.8E-13	9.0E-13	9.2E-13	9.7E-13	1.0E-12	1.2E-12	1.3E-12	1.5E-12	1.8E-12	2.1E-12	2.5E-12	2.9E-12	3.3E-12	3.8E-12	4.3E-12	4.8E-12	5.9E-12	4.7E-12	5.9E-12	3.4E-12	2.8E-12
7_1	11097-69-1	Aroclor 1254	5.44E-07	No	7.8E-12	10	6.6E-12	6.8E-12	6.9E-12	7.2E-12	7.8E-12	8.8E-12	1.0E-11	1.2E-11	1.3E-11	1.6E-11	1.9E-11	2.2E-11	2.5E-11	2.8E-11	3.2E-11	3.6E-11	4.4E-11	3.5E-11	4.5E-11	2.6E-11	2.1E-11
7_1	120-82-1	1,2,4-Trichlorobenzene	3.63E-08	No	5.2E-13	10	4.4E-13	4.5E-13	4.6E-13	4.8E-13	5.2E-13	5.8E-13	6.7E-13	7.7E-13	9.0E-13	1.1E-12	1.2E-12	1.5E-12	1.7E-12	1.9E-12	2.1E-12	2.4E-12	3.0E-12	2.3E-12	3.0E-12	1.7E-12	1.4E-12
7_1	127-18-4	Tetrachloroethene	2.83E-07	No	4.1E-12	10	3.4E-12	3.5E-12	3.6E-12	3.8E-12	4.1E-12	4.6E-12	5.3E-12	6.0E-12	7.0E-12	8.2E-12	9.7E-12	1.1E-11	1.3E-11	1.5E-11	1.7E-11	1.9E-11	2.3E-11	1.8E-11	2.3E-11	1.3E-11	1.1E-11
7_1	33213-65-9	Endosulfan II	3.99E-07	No	5.7E-12	10	4.9E-12	5.0E-12	5.1E-12	5.3E-12	5.7E-12	6.4E-12	7.4E-12	8.5E-12	9.9E-12	1.2E-11	1.4E-11	1.6E-11	1.8E-11	2.1E-11	2.3E-11	2.6E-11	3.3E-11	2.6E-11	3.3E-11	1.9E-11	1.5E-11
7_1	5103-74-2	GAMMA-CHLORDANE	6.17E-07	No	8.9E-12	10	7.5E-12	7.7E-12	7.9E-12	8.2E-12	8.9E-12	9.9E-12	1.1E-11	1.3E-11	1.5E-11	1.8E-11	2.1E-11	2.5E-11	2.8E-11	3.2E-11	3.6E-11	4.1E-11	5.0E-11	4.0E-11	5.1E-11	2.9E-11	2.4E-11
7_1	53494-70-5	Endrin ketone	8.71E-08	No	1.3E-12	10	1.1E-12	1.1E-12	1.1E-12	1.2E-12	1.3E-12	1.4E-12	1.6E-12	1.9E-12	2.2E-12	2.5E-12	3.0E-12	3.5E-12	4.0E-12	4.5E-12	5.1E-12	5.7E-12	7.1E-12	5.6E-12	7.1E-12	4.1E-12	3.4E-12
7_1	591-78-6	2-Hexanone	1.23E-07	No	1.8E-12	10	1.5E-12	1.5E-12	1.6E-12	1.6E-12	1.8E-12	2.0E-12	2.3E-12	2.6E-12	3.1E-12	3.6E-12	4.2E-12	4.9E-12	5.7E-12	6.4E-12	7.2E-12	8.1E-12	1.0E-11	7.9E-12	1.0E-11	5.8E-12	4.8E-12
7_1	75-35-4	1,1-Dichloroethene	1.56E-07	No	2.2E-12	10	1.9E-12	1.9E-12	2.0E-12	2.1E-12	2.2E-12	2.5E-12	2.9E-12	3.3E-12	3.9E-12	4.5E-12	5.3E-12	6.2E-12	7.2E-12	8.1E-12	9.2E-12	1.0E-11	1.3E-11	1.0E-11	1.3E-11	7.4E-12	6.1E-12
7_1	79-34-5	1,1,2,2-Tetrachloroethane	1.05E-07	No	1.5E-12	10	1.3E-12	1.3E-12	1.3E-12	1.4E-12	1.5E-12	1.7E-12	2.0E-12	2.2E-12	2.6E-12	3.1E-12	3.6E-12	4.2E-12	4.8E-12	5.5E-12	6.2E-12	6.9E-12	8.6E-12	6.8E-12	8.6E-12	5.0E-12	4.1E-12
7_1	87-61-6	1,2,3-Trichlorobenzene	4.72E-08	No	6.8E-13	10	5.7E-13	5.9E-13	6.0E-13	6.3E-13	6.8E-13	7.6E-13	8.8E-13	1.0E-12	1.2E-12	1.4E-12	1.6E-12	1.9E-12	2.2E-12	2.5E-12	2.8E-12	3.1E-12	3.9E-12	3.0E-12	3.9E-12	2.2E-12	1.8E-12
7_1	96-12-8	1,2-Dibromo-3-Chloropropane	2.14E-07	No	3.1E-12	10	2.6E-12	2.7E-12	2.7E-12	2.8E-12	3.1E-12	3.4E-12	4.0E-12	4.6E-12	5.3E-12	6.2E-12	7.3E-12	8.6E-12	9.8E-12	1.1E-11	1.3E-11	1.4E-11	1.7E-11	1.4E-11	1.8E-11	1.0E-11	8.3E-12

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**Volatile**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
7_2	100-41-4	Ethylbenzene	5.60E-05	No	8.1E-10	11	7.7E-08	1.8E-07	1.9E-07	1.2E-07	7.3E-08	4.7E-08	3.2E-08	2.3E-08	1.7E-08	1.3E-08	1.0E-08	8.1E-09	6.6E-09	5.3E-09	4.5E-09	3.8E-09	2.2E-09	2.4E-09	1.8E-09	4.1E-09	5.7E-09
7_2	100-42-5	Styrene	7.92E-06	No	1.1E-10	11	1.1E-08	2.5E-08	2.6E-08	1.7E-08	1.0E-08	6.7E-09	4.6E-09	3.3E-09	2.4E-09	1.9E-09	1.4E-09	1.1E-09	9.3E-10	7.5E-10	6.3E-10	5.3E-10	3.1E-10	3.4E-10	2.5E-10	5.9E-10	8.0E-10
7_2	103-65-1	n-Propylbenzene	3.72E-05	No	5.4E-10	11	5.1E-08	1.2E-07	1.2E-07	7.9E-08	4.8E-08	3.1E-08	2.1E-08	1.6E-08	1.2E-08	8.7E-09	6.8E-09	5.4E-09	4.4E-09	3.5E-09	3.0E-09	2.5E-09	1.5E-09	1.6E-09	1.2E-09	2.8E-09	3.8E-09
7_2	104-51-8	n-Butylbenzene	4.35E-06	No	6.3E-11	11	6.0E-09	1.4E-08	1.5E-08	9.2E-09	5.6E-09	3.7E-09	2.5E-09	1.8E-09	1.3E-09	1.0E-09	7.9E-10	6.3E-10	5.1E-10	4.1E-10	3.5E-10	2.9E-10	1.7E-10	1.9E-10	1.4E-10	3.2E-10	4.4E-10
7_2	108-67-8	1,3,5-Trimethylbenzene	2.65E-05	No	3.8E-10	11	3.7E-08	8.5E-08	8.8E-08	5.6E-08	3.4E-08	2.2E-08	1.5E-08	1.1E-08	8.2E-09	6.2E-09	4.8E-09	3.9E-09	3.1E-09	2.5E-09	2.1E-09	1.8E-09	1.1E-09	1.1E-09	8.5E-10	2.0E-09	2.7E-09
7_2	108-88-3	Toluene	1.80E-05	No	2.6E-10	11	2.5E-08	5.8E-08	6.0E-08	3.8E-08	2.3E-08	1.5E-08	1.0E-08	7.5E-09	5.6E-09	4.2E-09	3.3E-09	2.6E-09	2.1E-09	1.7E-09	1.4E-09	1.2E-09	7.1E-10	7.8E-10	5.8E-10	1.3E-09	1.8E-09
7_2	11096-82-5	Aroclor 1260	2.50E-06	No	3.6E-11	11	3.4E-09	8.0E-09	8.3E-09	5.3E-09	3.2E-09	2.1E-09	1.4E-09	1.0E-09	7.7E-10	5.9E-10	4.6E-10	3.6E-10	2.9E-10	2.4E-10	2.0E-10	1.7E-10	9.9E-11	1.1E-10	8.0E-11	1.9E-10	2.5E-10
7_2	120-12-7	Anthracene	1.12E-04	No	1.6E-09	11	1.5E-07	3.6E-07	3.7E-07	2.4E-07	1.5E-07	9.4E-08	6.5E-08	4.7E-08	3.5E-08	2.6E-08	2.0E-08	1.6E-08	1.3E-08	1.1E-08	8.9E-09	7.5E-09	4.5E-09	4.8E-09	3.6E-09	8.3E-09	1.1E-08
7_2	129-00-0	Pyrene	3.11E-05	No	4.5E-10	11	4.3E-08	1.0E-07	1.0E-07	6.6E-08	4.0E-08	2.6E-08	1.8E-08	1.3E-08	9.6E-09	7.3E-09	5.7E-09	4.5E-09	3.6E-09	3.0E-09	2.5E-09	2.1E-09	1.2E-09	1.3E-09	9.9E-10	2.3E-09	3.2E-09
7_2	1330-20-7	XYLENES (TOTAL)	3.60E-04	No	5.2E-09	11	5.0E-07	1.2E-06	1.2E-06	7.6E-07	4.7E-07	3.0E-07	2.1E-07	1.5E-07	1.1E-07	8.4E-08	6.6E-08	5.2E-08	4.2E-08	3.4E-08	2.9E-08	2.4E-08	1.4E-08	1.6E-08	1.1E-08	2.7E-08	3.7E-08
7_2	135-98-8	(1-METHYLPROPYL)BENZENE	2.99E-05	No	4.3E-10	11	4.1E-08	9.6E-08	1.0E-07	6.3E-08	3.9E-08	2.5E-08	1.7E-08	1.2E-08	9.2E-09	7.0E-09	5.5E-09	4.3E-09	3.5E-09	2.8E-09	2.4E-09	2.0E-09	1.2E-09	1.3E-09	9.5E-10	2.2E-09	3.0E-09
7_2	179601-23-1	m,p-Xylenes	5.28E-05	No	7.6E-10	11	7.3E-08	1.7E-07	1.8E-07	1.1E-07	6.9E-08	4.4E-08	3.0E-08	2.2E-08	1.6E-08	1.2E-08	9.7E-09	7.7E-09	6.2E-09	5.0E-09	4.2E-09	3.5E-09	2.1E-09	2.3E-09	1.7E-09	3.9E-09	5.4E-09
7_2	67-64-1	2-PROPANONE	5.04E-06	No	7.2E-11	11	7.0E-09	1.6E-08	1.7E-08	1.1E-08	6.5E-09	4.2E-09	2.9E-09	2.1E-09	1.6E-09	1.2E-09	9.2E-10	7.3E-10	5.9E-10	4.8E-10	4.0E-10	3.4E-10	2.0E-10	2.2E-10	1.6E-10	3.7E-10	5.1E-10
7_2	71-43-2	Benzene	4.49E-06	No	6.5E-11	11	6.2E-09	1.4E-08	1.5E-08	9.5E-09	5.8E-09	3.8E-09	2.6E-09	1.9E-09	1.4E-09	1.1E-09	8.2E-10	6.5E-10	5.3E-10	4.3E-10	3.6E-10	3.0E-10	1.8E-10	1.9E-10	1.4E-10	3.3E-10	4.6E-10
7_2	7421-93-4	Endrin aldehyde	1.40E-07	No	2.0E-12	11	1.9E-10	4.5E-10	4.7E-10	3.0E-10	1.8E-10	1.2E-10	8.1E-11	5.8E-11	4.3E-11	3.3E-11	2.6E-11	2.0E-11	1.6E-11	1.3E-11	1.1E-11	9.4E-12	5.6E-12	6.0E-12	4.5E-12	1.0E-11	1.4E-11
7_2	7439-98-7	Molybdenum	9.18E-05	No	1.3E-09	11	1.3E-07	2.9E-07	3.1E-07	1.9E-07	1.2E-07	7.7E-08	5.3E-08	3.8E-08	2.8E-08	2.2E-08	1.7E-08	1.3E-08	1.1E-08	8.7E-09	7.3E-09	6.1E-09	3.6E-09	4.0E-09	2.9E-09	6.8E-09	9.3E-09
7_2	75-09-2	Methylene Chloride	4.29E-07	No	6.2E-12	11	5.9E-10	1.4E-09	1.4E-09	9.1E-10	5.6E-10	3.6E-10	2.5E-10	1.8E-10	1.3E-10	1.0E-10	7.8E-11	6.2E-11	5.0E-11	4.1E-11	3.4E-11	2.9E-11	1.7E-11	1.9E-11	1.4E-11	3.2E-11	4.4E-11
7_2	75-69-4	Trichlorofluoromethane	3.76E-06	No	5.4E-11	11	5.2E-09	1.2E-08	1.3E-08	7.9E-09	4.9E-09	3.2E-09	2.2E-09	1.6E-09	1.2E-09	8.8E-10	6.9E-10	5.5E-10	4.4E-10	3.6E-10	3.0E-10	2.5E-10	1.5E-10	1.6E-10	1.2E-10	2.8E-10	3.8E-10
7_2	78-93-3	2-Butanone	9.90E-07	No	1.4E-11	11	1.4E-09	3.2E-09	3.3E-09	2.1E-09	1.3E-09	8.3E-10	5.7E-10	4.1E-10	3.1E-10	2.3E-10	1.8E-10	1.4E-10	1.2E-10	9.4E-11	7.9E-11	6.6E-11	3.9E-11	4.3E-11	3.2E-11	7.3E-11	1.0E-10
7_2	83-32-9	Acenaphthene	1.52E-04	No	2.2E-09	11	2.1E-07	4.9E-07	5.1E-07	3.2E-07	2.0E-07	1.3E-07	8.8E-08	6.3E-08	4.7E-08	3.6E-08	2.8E-08	2.2E-08	1.8E-08	1.4E-08	1.2E-08	1.0E-08	6.0E-09	6.5E-09	4.8E-09	1.1E-08	1.5E-08
7_2	85-01-8	Phenanthrene	6.80E-03	No	9.8E-08	11	9.4E-06	2.2E-05	2.3E-05	1.4E-05	8.8E-06	5.7E-06	3.9E-06	2.8E-06	2.1E-06	1.6E-06	1.2E-06	9.9E-07	8.0E-07	6.5E-07	5.4E-07	4.6E-07	2.7E-07	2.9E-07	2.2E-07	5.0E-07	6.9E-07
7_2	86-73-7	Fluorene	1.39E-04	No	2.0E-09	11	1.9E-07	4.4E-07	4.6E-07	2.9E-07	1.8E-07	1.2E-07	8.0E-08	5.8E-08	4.3E-08	3.2E-08	2.5E-08	2.0E-08	1.6E-08	1.3E-08	1.1E-08	9.3E-09	5.5E-09	6.0E-09	4.4E-09	1.0E-08	1.4E-08
7_2	91-20-3	Naphthalene	8.16E-05	No	1.2E-09	11	1.1E-07	2.6E-07	2.7E-07	1.7E-07	1.1E-07	6.9E-08	4.7E-08	3.4E-08	2.5E-08	1.9E-08	1.5E-08	1.2E-08	9.6E-09	7.8E-09	6.5E-09	5.5E-09	3.2E-09	3.5E-09	2.6E-09	6.0E-09	8.3E-09
7_2	91-57-6	2-Methylnaphthalene	3.28E-04	No	4.7E-09	11	4.5E-07	1.1E-06	1.1E-06	6.9E-07	4.3E-07	2.8E-07	1.9E-07	1.4E-07	1.0E-07	7.7E-08	6.0E-08	4.8E-08	3.8E-08	3.1E-08	2.6E-08	2.2E-08	1.3E-08	1.4E-08	1.0E-08	2.4E-08	3.3E-08
7_2	95-47-6	o-Xylene	9.96E-06	No	1.4E-10	11	1.4E-08	3.2E-08	3.3E-08	2.1E-08	1.3E-08	8.4E-09	5.7E-09	4.2E-09	3.1E-09	2.3E-09	1.8E-09	1.4E-09	1.2E-09	9.5E-10	7.9E-10	6.7E-10	4.0E-10	4.3E-10	3.2E-10	7.4E-10	1.0E-09
7_2	95-50-1	1,2-Dichlorobenzene	2.31E-05	No	3.3E-10	11	3.2E-08	7.4E-08	7.7E-08	4.9E-08	3.0E-08	1.9E-08	1.3E-08	9.6E-09	7.1E-09	5.4E-09	4.2E-09	3.4E-09	2.7E-09	2.2E-09	1.8E-09	1.5E-09	9.2E-10	1.0E-09	7.4E-10	1.7E-09	2.3E-09
7_2	95-63-6	1,2,4-Trimethylbenzene	7.70E-05	No	1.1E-09	11	1.1E-07	2.5E-07	2.6E-07	1.6E-07	1.0E-07	6.5E-08	4.4E-08	3.2E-08	2.4E-08	1.8E-08	1.4E-08	1.1E-08	9.0E-09	7.3E-09	6.1E-09	5.2E-09	3.1E-09	3.3E-09	2.5E-09	5.7E-09	7.8E-09
7_2	98-82-8	1-METHYLETHYLBENZENE	2.55E-05	No	3.7E-10	11	3.5E-08	8.2E-08	8.5E-08	5.4E-08	3.3E-08	2.1E-08	1.5E-08	1.1E-08	7.9E-09	6.0E-09	4.7E-09	3.7E-09	3.0E-09	2.4E-09	2.0E-09	1.7E-09	1.0E-09	1.1E-09	8.1E-10	1.9E-09	2.6E-09
7_2	1031-07-8	Endosulfan sulfate	2.84E-07	No	4.1E-12	11	3.9E-10	9.1E-10	9.5E-10	6.0E-10	3.7E-10	2.4E-10	1.6E-10	1.2E-10	8.8E-11	6.6E-11	5.2E-11	4.1E-11	3.3E-11	2.7E-11	2.3E-11	1.9E-11	1.1E-11	1.2E-11	9.1E-12	2.1E-11	2.9E-11
7_2	106-42-3	P-XYLENE	3.69E-06	No	5.3E-11	11	5.1E-09	1.2E-08	1.2E-08	7.8E-09	4.8E-09	3.1E-09	2.1E-09	1.5E-09	1.1E-09	8.7E-10	6.7E-10	5.4E-10	4.3E-10	3.5E-10	2.9E-10	2.5E-10	1.5E-10	1.6E-10	1.2E-10	2.7E-10	3.7E-10
7_2	106-93-4	1,2-Dibromoethane	4.02E-07	No	5.8E-12	11	5.6E-10	1.3E-09	1.3E-09	8.5E-10	5.2E-10	3.4E-10	2.3E-10	1.7E-10	1.2E-10	9.4E-11	7.4E-11	5.8E-11	4.7E-11	3.8E-11	3.2E-11	2.7E-11	1.6E-11	1.7E-11	1.3E-11	3.0E-11	4.1E-11
7_2	108-38-3	M-XYLENE	4.29E-05	No	6.2E-10	11	5.9E-08	1.4E-07	1.4E-07	9.1E-08	5.6E-08	3.6E-08	2.5E-08	1.8E-08	1.3E-08	1.0E-08	7.8E-09	6.2E-09	5.0E-09	4.1E-09	3.4E-09	2.9E-09	1.7E-09	1.9E-09	1.4E-09	3.2E-09	4.3E-09
7_2	108-90-7	Chlorobenzene	1.32E-07	No	1.9E-12	11	1.8E-10	4.2E-10	4.4E-10	2.8E-10	1.7E-10	1.1E-10	7.6E-11	5.5E-11	4.1E-11	3.1E-11	2.4E-11	1.9E-11	1.5E-11	1.3E-11	1.0E-11	8.8E-12	5.2E-12	5.7E-12	4.2E-12	9.8E-12	1.3E-11
7_2	11097-69-1	Aroclor 1254	9.90E-07	No	1.4E-11	11	1.4E-09	3.2E-09	3.3E-09	2.1E-09	1.3E-09	8.3E-10	5.7E-10	4.1E-10	3.1E-10	2.3E-10	1.8E-10	1.4E-10	1.2E-10	9.4E-11	7.9E-11	6.6E-11	3.9E-11	4.3E-11	3.2E-11	7.3E-11	1.0E-10
7_2	120-82-1	1,2,4-Trichlorobenzene	6.60E-08	No	9.5E-13	11	9.1E-11	2.1E-10	2.2E-10	1.4E-10	8.6E-11	5.6E-11	3.8E-11	2.8E-11	2.0E-11	1.5E-11	1.2E-11	9.6E-12	7.7E-12	6.3E-12	5.2E-12	4.4E-12	2.6E-12	2.8E-12	2.1E-12	4.9E-12	6.7E-12
7_2	127-18-4	Tetrachloroethene	5.15E-07	No	7.4E-12	11	7.1E-10	1.7E-09	1.7E-09	1.1E-09	6.7E-10	4.3E-10	3.0E-10	2.1E-10	1.6E-10	1.2E-10	9.4E-11	7.5E-11	6.0E-11	4.9E-11	4.1E-11	3.4E-11	2.0E-11	2.2E-11	1.6E-11	3.8E-11	5.2E-11
7_2	33213-65-9	Endosulfan II	7.26E-07	No	1.0E-11	11	1.0E-09	2.3E-09	2.4E-09	1.5E-09	9.4E-10	6.1E-10	4.2E-10	3.0E-10	2.2E-10	1.7E-10	1.3E-10	1.1E-10	8.5E-11	6.9E-11	5.8E-11	4.9E-11	2.9E-11	3.1E-11	2.3E-11	5.4E-11	7.4E-11
7_2	5103-74-2	GAMMA-CHLORDANE	1.12E-06	No	1.6E-11	11	1.5E-09	3.6E-09	3.7E-09	2.4E-09	1.5E-09	9.4E-10	6.5E-10	4.7E-10	3.5E-10	2.6E-10	2.0E-10	1.6E-10	1.3E-10	1.1E-10	8.9E-11	7.5E-11	4.5E-11	4.8E-11	3.6E-11	8.3E-11	1.1E-10
7_2	53494-70-5	Endrin ketone	1.58E-07	No	2.3E-12	11	2.2E-10	5.1E-10	5.3E-10	3.3E-10	2.1E-10	1.3E-10	9.1E-11	6.6E-11	4.9E-11	3.7E-11	2.9E-11	2.3E-11	1.9E-11	1.5E-11	1.3E-11	1.1E-11	6.3E-12	6.8E-12	5.1E-12	1.2E-11	1.6E-11
7_2	591-78-6	2-Hexanone	2.24E-07	No	3.2E-12	11	3.1E-10	7.2E-10	7.5E-10	4.7E-10	2.9E-10	1.9E-10	1.3E-10	9.4E-11	6.9E-11	5.3E-11	4.1E-11	3.3E-11	2.6E-11	2.1E-11	1.8E-11	1.5E-11	8.9E-12	9.7E-12	7.2E-12	1.7E-11	2.3E-11
7_2	75-35-4	1,1-Dichloroethene	2.84E-07	No	4.1E-12	11	3.9E-10	9.1E-10	9.5E-10	6.0E-10	3.7E-10	2.4E-10	1.6E-10	1.2E-10	8.8E-11	6.6E-11	5.2E-11	4.1E-11	3.3E-11	2.7E-11	2.3E-11	1.9E-11	1.1E-11	1.2E-11	9.1E-12	2.1E-11	2.9E-11
7_2	79-34-5	1,1,2,2-Tetrachloroethane	1.91E-07	No	2.8E-12	11	2.6E-10	6.1E-10	6.4E-10	4.0E-10	2.5E-10	1.6E-10	1.1E-10	8.0E-11	5.9E-11	4.5E-11	3.5E-11	2.8E-11	2.2E-11	1.8E-11	1.5E-11	1.3E-11	7.6E-12	8.3E-12	6.1E-12	1.4E-11	1.9E-11
7_2	87-61-6	1,2,3-Trichlorobenzene	8.58E-08	No	1.2E-12	11	1.2E-10	2.8E-10	2.9E-10	1.8E-10	1.1E-10	7.2E-11	4.9E-11	3.6E-11	2.7E-11	2.0E-11	1.6E-11	1.2E-11	1.0E-11	8.2E-12	6.8E-12	5.7E-12	3.4E-12	3.7E-12	2.7E-12	6.4E-12	8.7E-12
7_2	96-12-8	1,2-Dibromo-3-Chloropropane	3.89E-07	No	5.6E-12	11	5.4E-10	1.2E-09	1.3E-09	8.2E-10	5.0E-10	3.3E-10	2.2E-10	1.6E-10	1.2E-10	9.1E-11	7.1E-11	5.7E-11	4.6E-11	3.7E-11	3.1E-11	2.6E-11	1.5E-11	1.7E-11	1.2E-11	2.9E-11	3.9E-11
8	100-41-4	Ethylbenzene	1.07E-04	No	1.5E-09	19	2.4E-08	7.0E-08	9.9E-08	1.1E-07	1.1E-07	1.2E-07	1.2E-07	1.2E-07	1.1E-07	1.0E-07	1.0E-07	1.0E-07	1.1E-07	1.2E-07	1.2E-07	1.2E-07	3.3E-08	2.4E-08	2.0E-08	3.6E-08	3.6E-08
8	100-42-5	Styrene	1.51E-05	No	2.2E-10	19	3.4E-09	9.9E-09	1.4E-08	1.5E-08	1.6E-08	1.7E-08	1.7E-08	1.6E-08	1.5E-08	1.4E-08	1.4E-08	1.5E-08	1.6E-08	1.6E-08	1.7E-08	1.7E-08	4.6E-09	3.4E-09	2.8E-09	5.1E-09	5.0E-09
8	103-65-1	n-Propylbenzene	7.09E-05	No	1.0E-09	19	1.6E-08	4.7E-08	6.6E-08	7.2E-08	7.5E-08	7.8E-08	8.0E-08	7.7E-08	7.2E-08	6.8E-08	6.7E-08	7.0E-08	7.4E-08	7.7E-08	7.9E-08	8.1E-08	2.2E-08	1.6E-08	1.3E-08	2.4E-08	2.4E-08
8	104-51-8	n-Butylbenzene	8.28E-06	No	1.2E-10	19	1.8E-09	5.5E-09	7.7E-09	8.4E-09	8.8E-09	9.2E-09	9.4E-09	9.1E-09	8.4E-09	7.9E-09	7.8E-09	8.1E-09	8.6E-09	9.0E-09	9.2E-09	9.5E-09	2.5E-09	1.9E-09	1.5E-09	2.8E-09	2.8E-09
8	108-67-8	1,3,5-Trimethylbenzene	5.05E-05	No	7.3E-10	19	1.1E-08	3.3E-08	4.7E-08	5.1E-08	5.4E-08	5.6E-08	5.7E-08	5.5E-08	5.2E-08	4.8E-08	4.8E-08	5.0E-08	5.3E-08	5.5E-08	5.6E-08	5.8E-08	1.5E-08	1.1E-08	9.4E-09	1.7E-08	1.7E-08
8	108-88-3	Toluene	3.43E-05	No	4.9E-10	19	7.6E-09	2.3E-08	3.2E-08	3.5E-08	3.6E-08	3.8E-08	3.9E-08	3.7E-08	3.5E-08	3.3E-08	3.3E-08	3.4E-08	3.6E-08	3.7E-08	3.8E-08	3.9E-08	1.1E-08	7.7E-09	6.4E-09	1.2E-08	1.1E-08
8	11096-82-5	Aroclor 1260	4.76E-06	No	6.8E-11	19	1.1E-09	3.1E-09	4.4E-09	4.8E-09	5.0E-09	5.3E-09	5.4E-09	5.2E-09	4.9E-09	4.6E-09	4.5E-09	4.7E-09	5.0E-09	5.2E-09	5.3E-09	5.5E-09	1.5E-09	1.1E-09	8.9E-10	1.6E-09	1.6E-09
8	120-12-7	Anthracene	2.14E-04	No	3.1E-09	19	4.8E-08	1.4E-07	2.0E-07	2.2E-07	2.3E-07	2.4E-07	2.4E-07	2.3E-07	2.2E-07	2.0E-07	2.0E-07	2.1E-07	2.2E-07	2.3E-07	2.4E-07	2.5E-07	6.5E-08	4.8E-08	4.0E-08	7.3E-08	7.1E-08
8	129-00-0	Pyrene	5.92E-05	No	8.5E-10	19	1.3E-08	3.9E-08	5.5E-08	6.0E-08	6.3E-08	6.6E-08	6.7E-08	6.5E-08	6.0E-08	5.7E-08	5.6E-08	5.8E-08	6.2E-08	6.5E-08	6.6E-08	6.8E-08	1.8E-08	1.3E-08	1.1E-08	2.0E-08	2.0E-08
8	1330-20-7	XYLENES (TOTAL)	6.86E-04	No	9.9E-09	19	1.5E-07	4.5E-07	6.4E-07	6.9E-07	7.3E-07	7.6E-07	7.8E-07	7.5E-07	7.0E-07	6.6E-07	6.5E-07	6.7E-07	7.2E-07	7.5E-07	7.6E-07	7.9E-07	2.1E-07	1.5E-07	1.3E-07	2.3E-07	2.3E-07
8	135-98-8	(1-METHYLPROPYL)BENZENE	5.69E-05	No	8.2E-10	19	1.3E-08	3.7E-08	5.3E-08	5.8E-08	6.0E-08	6.3E-08	6.5E-08	6.2E-08	5.8E-08	5.4E-08	5.4E-08	5.6E-08	5.9E-08	6.2E-08	6.3E-08	6.5E-08	1.7E-08	1.3E-08	1.1E-08	1.9E-08	1.9E-08
8	179601-23-1	m,p-Xylenes	1.01E-04	No	1.4E-09	19	2.2E-08	6.6E-08	9.4E-08	1.0E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.0E-07	9.6E-08	9.5E-08	9.9E-08	1.0E-07	1.1E-07	1.1E-07	1.2E-07	3.1E-08	2.3E-08	1.9E-08	3.4E-08	3.4E-08
8	67-64-1	2-PROPANONE	9.60E-06	No	1.4E-10	19	2.1E-09	6.3E-09	8.9E-09	9.7E-09	1.0E-08	1.1E-08	1.1E-08	1.0E-08	9.8E-09	9.2E-09	9.1E-09	9.4E-09	1.0E-08	1.0E-08	1.1E-08	1.1E-08	2.9E-09	2.2E-09	1.8E-09	3.3E-09	3.2E-09
8	71-43-2	Benzene	8.56E-06	No	1.2E-10	19	1.9E-09	5.6E-09	8.0E-09	8.7E-09	9.1E-09	9.5E-09	9.7E-09	9.4E-09	8.7E-09	8.2E-09	8.1E-09	8.4E-09	8.9E-09	9.3E-09	9.5E-09	9.8E-09	2.6E-09	1.9E-09	1.6E-09	2.9E-09	2.9E-09
8	7421-93-4	Endrin aldehyde	2.66E-07	No	3.8E-12	19	5.9E-11	1.8E-10	2.5E-10	2.7E-10	2.8E-10	3.0E-10	3.0E-10	2.9E-10	2.7E-10	2.5E-10	2.5E-10	2.6E-10	2.8E-10	2.9E-10	3.0E-10	3.1E-10	8.2E-11	6.0E-11	5.0E-11	9.0E-11	8.9E-11
8	7439-98-7	Molybdenum	1.75E-04	No	2.5E-09	19	3.9E-08	1.2E-07	1.6E-07	1.8E-07	1.9E-07	1.9E-07	2.0E-07	1.9E-07	1.8E-07	1.7E-07	1.7E-07	1.7E-07	1.8E-07	1.9E-07	1.9E-07	2.0E-07	5.4E-08	3.9E-08	3.3E-08	5.9E-08	5.8E-08
8	75-09-2	Methylene Chloride	8.18E-07	No	1.2E-11	19	1.8E-10	5.4E-10	7.6E-10	8.3E-10	8.7E-10	9.1E-10	9.3E-10	8.9E-10	8.3E-10	7.8E-10	7.8E-10	8.0E-10	8.5E-10	8.9E-10	9.1E-10	9.4E-10	2.5E-10	1.8E-10	1.5E-10	2.8E-10	2.7E-10
8	75-69-4	Trichlorofluoromethane	7.16E-06	No	1.0E-10	19	1.6E-09	4.7E-09	6.7E-09	7.3E-09	7.6E-09	7.9E-09	8.1E-09	7.8E-09	7.3E-09	6.9E-09	6.8E-09	7.0E-09	7.5E-09	7.8E-09	7.9E-09	8.2E-09	2.2E-09	1.6E-09	1.3E-09	2.4E-09	2.4E-09
8	78-93-3	2-Butanone	1.88E-06	No	2.7E-11	19	4.2E-10	1.2E-09	1.8E-09	1.9E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	1.9E-09	1.8E-09	1.8E-09	1.9E-09	2.0E-09	2.1E-09	2.1E-09	2.2E-09	5.8E-10	4.3E-10	3.5E-10	6.4E-10	6.3E-10
8	83-32-9	Acenaphthene	2.89E-04	No	4.2E-09	19	6.4E-08	1.9E-07	2.7E-07	2.9E-07	3.1E-07	3.2E-07	3.3E-07	3.2E-07	2.9E-07	2.8E-07	2.7E-07	2.8E-07	3.0E-07	3.2E-07	3.2E-07	3.3E-07	8.9E-08	6.5E-08	5.4E-08	9.8E-08	9.6E-08
8	85-01-8	Phenanthrene	1.30E-02	No	1.9E-07	19	2.9E-06	8.5E-06	1.2E-05	1.3E-05	1.4E-05	1.4E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	1.2E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.5E-05	4.0E-06	2.9E-06	2.4E-06	4.4E-06	4.3E-06
8	86-73-7	Fluorene	2.64E-04	No	3.8E-09	19	5.9E-08	1.7E-07	2.5E-07	2.7E-07	2.8E-07	2.9E-07	3.0E-07	2.9E-07	2.7E-07	2.5E-07	2.5E-07	2.6E-07	2.8E-07	2.9E-07	2.9E-07	3.0E-07	8.1E-08	6.0E-08	4.9E-08	9.0E-08	8.8E-08
8	91-20-3	Naphthalene	1.55E-04	No	2.2E-09	19	3.5E-08	1.0E-07	1.4E-07	1.6E-07	1.6E-07	1.7E-07	1.8E-07	1.7E-07	1.6E-07	1.5E-07	1.5E-07	1.5E-07	1.6E-07	1.7E-07	1.7E-07	1.8E-07	4.8E-08	3.5E-08	2.9E-08	5.3E-08	5.2E-08
8	91-57-6	2-Methylnaphthalene	6.25E-04	No	9.0E-09	19	1.4E-07	4.1E-07	5.8E-07	6.3E-07	6.6E-07	6.9E-07	7.1E-07	6.8E-07	6.4E-07	6.0E-07	5.9E-07	6.1E-07	6.5E-07	6.8E-07	6.9E-07	7.2E-07	1.9E-07	1.4E-07	1.2E-07	2.1E-07	2.1E-07

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
8	95-47-6	o-Xylene	1.90E-05	No	2.7E-10	19	4.2E-09	1.2E-08	1.8E-08	1.9E-08	2.0E-08	2.1E-08	2.2E-08	2.1E-08	1.9E-08	1.8E-08	1.8E-08	1.9E-08	2.0E-08	2.1E-08	2.1E-08	2.2E-08	5.8E-09	4.3E-09	3.5E-09	6.4E-09	6.3E-09
8	95-50-1	1,2-Dichlorobenzene	4.40E-05	No	6.3E-10	19	9.8E-09	2.9E-08	4.1E-08	4.5E-08	4.7E-08	4.9E-08	5.0E-08	4.8E-08	4.5E-08	4.2E-08	4.2E-08	4.3E-08	4.6E-08	4.8E-08	4.9E-08	5.0E-08	1.3E-08	9.9E-09	8.2E-09	1.5E-08	1.5E-08
8	95-63-6	1,2,4-Trimethylbenzene	1.47E-04	No	2.1E-09	19	3.3E-08	9.7E-08	1.4E-07	1.5E-07	1.6E-07	1.6E-07	1.7E-07	1.6E-07	1.5E-07	1.4E-07	1.4E-07	1.4E-07	1.5E-07	1.6E-07	1.6E-07	1.7E-07	4.5E-08	3.3E-08	2.7E-08	5.0E-08	4.9E-08
8	98-82-8	1-METHYLETHYLBENZENE	4.85E-05	No	7.0E-10	19	1.1E-08	3.2E-08	4.5E-08	4.9E-08	5.1E-08	5.4E-08	5.5E-08	5.3E-08	4.9E-08	4.6E-08	4.6E-08	4.8E-08	5.1E-08	5.3E-08	5.4E-08	5.6E-08	1.5E-08	1.1E-08	9.1E-09	1.6E-08	1.6E-08
8	1031-07-8	Endosulfan sulfate	5.40E-07	No	7.8E-12	19	1.2E-10	3.6E-10	5.0E-10	5.5E-10	5.7E-10	6.0E-10	6.1E-10	5.9E-10	5.5E-10	5.2E-10	5.1E-10	5.3E-10	5.6E-10	5.9E-10	6.0E-10	6.2E-10	1.7E-10	1.2E-10	1.0E-10	1.8E-10	1.8E-10
8	106-42-3	P-XYLENE	7.04E-06	No	1.0E-10	19	1.6E-09	4.6E-09	6.6E-09	7.1E-09	7.5E-09	7.8E-09	8.0E-09	7.7E-09	7.2E-09	6.7E-09	6.7E-09	6.9E-09	7.3E-09	7.7E-09	7.8E-09	8.1E-09	2.2E-09	1.6E-09	1.3E-09	2.4E-09	2.3E-09
8	106-93-4	1,2-Dibromoethane	7.67E-07	No	1.1E-11	19	1.7E-10	5.0E-10	7.1E-10	7.8E-10	8.1E-10	8.5E-10	8.7E-10	8.4E-10	7.8E-10	7.3E-10	7.3E-10	7.5E-10	8.0E-10	8.4E-10	8.5E-10	8.8E-10	2.3E-10	1.7E-10	1.4E-10	2.6E-10	2.6E-10
8	108-38-3	M-XYLENE	8.17E-05	No	1.2E-09	19	1.8E-08	5.4E-08	7.6E-08	8.3E-08	8.7E-08	9.0E-08	9.3E-08	8.9E-08	8.3E-08	7.8E-08	7.7E-08	8.0E-08	8.5E-08	8.9E-08	9.1E-08	9.4E-08	2.5E-08	1.8E-08	1.5E-08	2.8E-08	2.7E-08
8	108-90-7	Chlorobenzene	2.51E-07	No	3.6E-12	19	5.6E-11	1.7E-10	2.3E-10	2.5E-10	2.7E-10	2.8E-10	2.8E-10	2.7E-10	2.6E-10	2.4E-10	2.4E-10	2.5E-10	2.6E-10	2.7E-10	2.8E-10	2.9E-10	7.7E-11	5.7E-11	4.7E-11	8.5E-11	8.4E-11
8	11097-69-1	Aroclor 1254	1.88E-06	No	2.7E-11	19	4.2E-10	1.2E-09	1.8E-09	1.9E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	1.9E-09	1.8E-09	1.8E-09	1.9E-09	2.0E-09	2.1E-09	2.1E-09	2.2E-09	5.8E-10	4.3E-10	3.5E-10	6.4E-10	6.3E-10
8	120-82-1	1,2,4-Trichlorobenzene	1.26E-07	No	1.8E-12	19	2.8E-11	8.3E-11	1.2E-10	1.3E-10	1.3E-10	1.4E-10	1.4E-10	1.4E-10	1.3E-10	1.2E-10	1.2E-10	1.2E-10	1.3E-10	1.4E-10	1.4E-10	1.4E-10	3.8E-11	2.8E-11	2.3E-11	4.3E-11	4.2E-11
8	127-18-4	Tetrachloroethene	9.80E-07	No	1.4E-11	19	2.2E-10	6.5E-10	9.1E-10	9.9E-10	1.0E-09	1.1E-09	1.1E-09	1.1E-09	1.0E-09	9.4E-10	9.3E-10	9.6E-10	1.0E-09	1.1E-09	1.1E-09	1.1E-09	3.0E-10	2.2E-10	1.8E-10	3.3E-10	3.3E-10
8	33213-65-9	Endosulfan II	1.38E-06	No	2.0E-11	19	3.1E-10	9.1E-10	1.3E-09	1.4E-09	1.5E-09	1.5E-09	1.6E-09	1.5E-09	1.4E-09	1.3E-09	1.3E-09	1.4E-09	1.4E-09	1.5E-09	1.5E-09	1.6E-09	4.2E-10	3.1E-10	2.6E-10	4.7E-10	4.6E-10
8	5103-74-2	GAMMA-CHLORDANE	2.14E-06	No	3.1E-11	19	4.8E-10	1.4E-09	2.0E-09	2.2E-09	2.3E-09	2.4E-09	2.4E-09	2.3E-09	2.2E-09	2.0E-09	2.0E-09	2.1E-09	2.2E-09	2.3E-09	2.4E-09	2.5E-09	6.5E-10	4.8E-10	4.0E-10	7.3E-10	7.1E-10
8	53494-70-5	Endrin ketone	3.02E-07	No	4.3E-12	19	6.7E-11	2.0E-10	2.8E-10	3.1E-10	3.2E-10	3.3E-10	3.4E-10	3.3E-10	3.1E-10	2.9E-10	2.9E-10	3.0E-10	3.1E-10	3.3E-10	3.3E-10	3.5E-10	9.2E-11	6.8E-11	5.6E-11	1.0E-10	1.0E-10
8	591-78-6	2-Hexanone	4.27E-07	No	6.1E-12	19	9.5E-11	2.8E-10	4.0E-10	4.3E-10	4.5E-10	4.7E-10	4.8E-10	4.7E-10	4.4E-10	4.1E-10	4.0E-10	4.2E-10	4.5E-10	4.7E-10	4.7E-10	4.9E-10	1.3E-10	9.6E-11	8.0E-11	1.5E-10	1.4E-10
8	75-35-4	1,1-Dichloroethene	5.40E-07	No	7.8E-12	19	1.2E-10	3.6E-10	5.0E-10	5.5E-10	5.7E-10	6.0E-10	6.1E-10	5.9E-10	5.5E-10	5.2E-10	5.1E-10	5.3E-10	5.6E-10	5.9E-10	6.0E-10	6.2E-10	1.7E-10	1.2E-10	1.0E-10	1.8E-10	1.8E-10
8	79-34-5	1,1,2,2-Tetrachloroethane	3.64E-07	No	5.2E-12	19	8.1E-11	2.4E-10	3.4E-10	3.7E-10	3.9E-10	4.0E-10	4.1E-10	4.0E-10	3.7E-10	3.5E-10	3.5E-10	3.6E-10	3.8E-10	4.0E-10	4.0E-10	4.2E-10	1.1E-10	8.2E-11	6.8E-11	1.2E-10	1.2E-10
8	87-61-6	1,2,3-Trichlorobenzene	1.63E-07	No	2.3E-12	19	3.6E-11	1.1E-10	1.5E-10	1.7E-10	1.7E-10	1.8E-10	1.9E-10	1.8E-10	1.7E-10	1.6E-10	1.5E-10	1.6E-10	1.7E-10	1.8E-10	1.8E-10	1.9E-10	5.0E-11	3.7E-11	3.1E-11	5.5E-11	5.5E-11
8	96-12-8	1,2-Dibromo-3-Chloropropane	7.41E-07	No	1.1E-11	19	1.7E-10	4.9E-10	6.9E-10	7.5E-10	7.9E-10	8.2E-10	8.4E-10	8.1E-10	7.6E-10	7.1E-10	7.0E-10	7.3E-10	7.7E-10	8.1E-10	8.2E-10	8.5E-10	2.3E-10	1.7E-10	1.4E-10	2.5E-10	2.5E-10
9	100-41-4	Ethylbenzene	1.07E-04	No	1.5E-09	12	3.5E-09	4.1E-09	4.7E-09	5.4E-09	6.0E-09	6.8E-09	7.6E-09	8.4E-09	9.0E-09	9.4E-09	9.6E-09	9.6E-09	9.4E-09	9.0E-09	8.5E-09	7.9E-09	5.2E-09	4.8E-09	4.4E-09	6.3E-09	6.8E-09
9	100-42-5	Styrene	1.51E-05	No	2.2E-10	12	4.9E-10	5.8E-10	6.7E-10	7.6E-10	8.5E-10	9.6E-10	1.1E-09	1.2E-09	1.3E-09	1.3E-09	1.4E-09	1.4E-09	1.3E-09	1.3E-09	1.2E-09	1.1E-09	7.4E-10	6.7E-10	6.3E-10	8.9E-10	9.6E-10
9	103-65-1	n-Propylbenzene	7.08E-05	No	1.0E-09	12	2.3E-09	2.7E-09	3.1E-09	3.6E-09	4.0E-09	4.5E-09	5.1E-09	5.6E-09	6.0E-09	6.3E-09	6.4E-09	6.4E-09	6.2E-09	6.0E-09	5.6E-09	5.2E-09	3.5E-09	3.2E-09	2.9E-09	4.2E-09	4.5E-09
9	104-51-8	n-Butylbenzene	8.27E-06	No	1.2E-10	12	2.7E-10	3.2E-10	3.7E-10	4.2E-10	4.7E-10	5.3E-10	5.9E-10	6.5E-10	7.0E-10	7.3E-10	7.4E-10	7.4E-10	7.3E-10	7.0E-10	6.6E-10	6.1E-10	4.1E-10	3.7E-10	3.4E-10	4.9E-10	5.3E-10
9	108-67-8	1,3,5-Trimethylbenzene	5.05E-05	No	7.3E-10	12	1.6E-09	1.9E-09	2.2E-09	2.5E-09	2.9E-09	3.2E-09	3.6E-09	4.0E-09	4.3E-09	4.5E-09	4.5E-09	4.5E-09	4.4E-09	4.2E-09	4.0E-09	3.7E-09	2.5E-09	2.3E-09	2.1E-09	3.0E-09	3.2E-09
9	108-88-3	Toluene	3.43E-05	No	4.9E-10	12	1.1E-09	1.3E-09	1.5E-09	1.7E-09	1.9E-09	2.2E-09	2.5E-09	2.7E-09	2.9E-09	3.0E-09	3.1E-09	3.1E-09	3.0E-09	2.9E-09	2.7E-09	2.5E-09	1.7E-09	1.5E-09	1.4E-09	2.0E-09	2.2E-09
9	11096-82-5	Aroclor 1260	4.76E-06	No	6.8E-11	12	1.6E-10	1.8E-10	2.1E-10	2.4E-10	2.7E-10	3.0E-10	3.4E-10	3.8E-10	4.0E-10	4.2E-10	4.3E-10	4.3E-10	4.2E-10	4.0E-10	3.8E-10	3.5E-10	2.3E-10	2.1E-10	2.0E-10	2.8E-10	3.0E-10
9	120-12-7	Anthracene	2.13E-04	No	3.1E-09	12	7.0E-09	8.2E-09	9.5E-09	1.1E-08	1.2E-08	1.4E-08	1.5E-08	1.7E-08	1.8E-08	1.9E-08	1.9E-08	1.9E-08	1.9E-08	1.8E-08	1.7E-08	1.6E-08	1.0E-08	9.5E-09	8.9E-09	1.3E-08	1.4E-08
9	129-00-0	Pyrene	5.91E-05	No	8.5E-10	12	1.9E-09	2.3E-09	2.6E-09	3.0E-09	3.4E-09	3.8E-09	4.2E-09	4.7E-09	5.0E-09	5.2E-09	5.3E-09	5.3E-09	5.2E-09	5.0E-09	4.7E-09	4.4E-09	2.9E-09	2.6E-09	2.5E-09	3.5E-09	3.8E-09
9	1330-20-7	XYLENES (TOTAL)	6.85E-04	No	9.9E-09	12	2.2E-08	2.6E-08	3.0E-08	3.4E-08	3.9E-08	4.4E-08	4.9E-08	5.4E-08	5.8E-08	6.1E-08	6.2E-08	6.2E-08	6.0E-08	5.8E-08	5.5E-08	5.1E-08	3.4E-08	3.1E-08	2.8E-08	4.1E-08	4.4E-08
9	135-98-8	(1-METHYLPROPYL)BENZENE	5.69E-05	No	8.2E-10	12	1.9E-09	2.2E-09	2.5E-09	2.9E-09	3.2E-09	3.6E-09	4.1E-09	4.5E-09	4.8E-09	5.0E-09	5.1E-09	5.1E-09	5.0E-09	4.8E-09	4.5E-09	4.2E-09	2.8E-09	2.5E-09	2.4E-09	3.4E-09	3.6E-09
9	179601-23-1	m,p-Xylenes	1.01E-04	No	1.4E-09	12	3.3E-09	3.9E-09	4.5E-09	5.0E-09	5.7E-09	6.4E-09	7.2E-09	8.0E-09	8.5E-09	8.9E-09	9.1E-09	9.0E-09	8.8E-09	8.5E-09	8.0E-09	7.4E-09	4.9E-09	4.5E-09	4.2E-09	6.0E-09	6.4E-09
9	67-64-1	2-PROPANONE	9.59E-06	No	1.4E-10	12	3.1E-10	3.7E-10	4.2E-10	4.8E-10	5.4E-10	6.1E-10	6.9E-10	7.6E-10	8.1E-10	8.5E-10	8.6E-10	8.6E-10	8.4E-10	8.1E-10	7.6E-10	7.1E-10	4.7E-10	4.3E-10	4.0E-10	5.7E-10	6.1E-10
9	71-43-2	Benzene	8.55E-06	No	1.2E-10	12	2.8E-10	3.3E-10	3.8E-10	4.3E-10	4.8E-10	5.5E-10	6.1E-10	6.8E-10	7.2E-10	7.6E-10	7.7E-10	7.7E-10	7.5E-10	7.2E-10	6.8E-10	6.3E-10	4.2E-10	3.8E-10	3.6E-10	5.1E-10	5.4E-10
9	7421-93-4	Endrin aldehyde	2.66E-07	No	3.8E-12	12	8.7E-12	1.0E-11	1.2E-11	1.3E-11	1.5E-11	1.7E-11	1.9E-11	2.1E-11	2.3E-11	2.4E-11	2.4E-11	2.4E-11	2.3E-11	2.2E-11	2.1E-11	2.0E-11	1.3E-11	1.2E-11	1.1E-11	1.6E-11	1.7E-11
9	7439-98-7	Molybdenum	1.75E-04	No	2.5E-09	12	5.7E-09	6.7E-09	7.7E-09	8.8E-09	9.9E-09	1.1E-08	1.2E-08	1.4E-08	1.5E-08	1.5E-08	1.6E-08	1.6E-08	1.5E-08	1.5E-08	1.4E-08	1.3E-08	8.6E-09	7.8E-09	7.3E-09	1.0E-08	1.1E-08
9	75-09-2	Methylene Chloride	8.17E-07	No	1.2E-11	12	2.7E-11	3.2E-11	3.6E-11	4.1E-11	4.6E-11	5.2E-11	5.8E-11	6.5E-11	6.9E-11	7.2E-11	7.4E-11	7.3E-11	7.2E-11	6.9E-11	6.5E-11	6.1E-11	4.0E-11	3.6E-11	3.4E-11	4.8E-11	5.2E-11
9	75-69-4	Trichlorofluoromethane	7.16E-06	No	1.0E-10	12	2.3E-10	2.8E-10	3.2E-10	3.6E-10	4.1E-10	4.6E-10	5.1E-10	5.7E-10	6.1E-10	6.3E-10	6.4E-10	6.4E-10	6.3E-10	6.0E-10	5.7E-10	5.3E-10	3.5E-10	3.2E-10	3.0E-10	4.2E-10	4.5E-10
9	78-93-3	2-Butanone	1.88E-06	No	2.7E-11	12	6.1E-11	7.3E-11	8.3E-11	9.5E-11	1.1E-10	1.2E-10	1.3E-10	1.5E-10	1.6E-10	1.7E-10	1.7E-10	1.7E-10	1.7E-10	1.6E-10	1.5E-10	1.4E-10	9.3E-11	8.4E-11	7.8E-11	1.1E-10	1.2E-10
9	83-32-9	Acenaphthene	2.89E-04	No	4.2E-09	12	9.4E-09	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.8E-08	2.1E-08	2.3E-08	2.4E-08	2.6E-08	2.6E-08	2.6E-08	2.5E-08	2.4E-08	2.3E-08	2.1E-08	1.4E-08	1.3E-08	1.2E-08	1.7E-08	1.8E-08
9	85-01-8	Phenanthrene	1.29E-02	No	1.9E-07	12	4.2E-07	5.0E-07	5.7E-07	6.5E-07	7.3E-07	8.3E-07	9.3E-07	1.0E-06	1.1E-06	1.1E-06	1.2E-06	1.2E-06	1.1E-06	1.1E-06	1.0E-06	9.6E-07	6.4E-07	5.8E-07	5.4E-07	7.7E-07	8.2E-07
9	86-73-7	Fluorene	2.64E-04	No	3.8E-09	12	8.6E-09	1.0E-08	1.2E-08	1.3E-08	1.5E-08	1.7E-08	1.9E-08	2.1E-08	2.2E-08	2.3E-08	2.4E-08	2.4E-08	2.3E-08	2.2E-08	2.1E-08	2.0E-08	1.3E-08	1.2E-08	1.1E-08	1.6E-08	1.7E-08
9	91-20-3	Naphthalene	1.55E-04	No	2.2E-09	12	5.1E-09	6.0E-09	6.9E-09	7.8E-09	8.8E-09	9.9E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.3E-08	1.2E-08	1.2E-08	7.6E-09	6.9E-09	6.5E-09	9.2E-09	9.9E-09
9	91-57-6	2-Methylnaphthalene	6.24E-04	No	9.0E-09	12	2.0E-08	2.4E-08	2.8E-08	3.1E-08	3.5E-08	4.0E-08	4.5E-08	4.9E-08	5.3E-08	5.5E-08	5.6E-08	5.6E-08	5.5E-08	5.3E-08	5.0E-08	4.6E-08	3.1E-08	2.8E-08	2.6E-08	3.7E-08	4.0E-08
9	95-47-6	o-Xylene	1.90E-05	No	2.7E-10	12	6.2E-10	7.3E-10	8.4E-10	9.5E-10	1.1E-09	1.2E-09	1.4E-09	1.5E-09	1.6E-09	1.7E-09	1.7E-09	1.7E-09	1.7E-09	1.6E-09	1.5E-09	1.4E-09	9.3E-10	8.5E-10	7.9E-10	1.1E-09	1.2E-09
9	95-50-1	1,2-Dichlorobenzene	4.39E-05	No	6.3E-10	12	1.4E-09	1.7E-09	1.9E-09	2.2E-09	2.5E-09	2.8E-09	3.1E-09	3.5E-09	3.7E-09	3.9E-09	4.0E-09	3.9E-09	3.9E-09	3.7E-09	3.5E-09	3.3E-09	2.2E-09	2.0E-09	1.8E-09	2.6E-09	2.8E-09
9	95-63-6	1,2,4-Trimethylbenzene	1.47E-04	No	2.1E-09	12	4.8E-09	5.6E-09	6.5E-09	7.4E-09	8.3E-09	9.4E-09	1.0E-08	1.2E-08	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.2E-08	1.2E-08	1.1E-08	7.2E-09	6.5E-09	6.1E-09	8.7E-09	9.3E-09
9	98-82-8	1-METHYLETHYLBENZENE	4.85E-05	No	7.0E-10	12	1.6E-09	1.9E-09	2.1E-09	2.4E-09	2.7E-09	3.1E-09	3.5E-09	3.8E-09	4.1E-09	4.3E-09	4.4E-09	4.3E-09	4.3E-09	4.1E-09	3.9E-09	3.6E-09	2.4E-09	2.2E-09	2.0E-09	2.9E-09	3.1E-09
9	1031-07-8	Endosulfan sulfate	5.40E-07	No	7.8E-12	12	1.8E-11	2.1E-11	2.4E-11	2.7E-11	3.1E-11	3.5E-11	3.9E-11	4.3E-11	4.6E-11	4.8E-11	4.9E-11	4.8E-11	4.7E-11	4.5E-11	4.3E-11	4.0E-11	2.7E-11	2.4E-11	2.2E-11	3.2E-11	3.4E-11
9	106-42-3	P-XYLENE	7.03E-06	No	1.0E-10	12	2.3E-10	2.7E-10	3.1E-10	3.5E-10	4.0E-10	4.5E-10	5.0E-10	5.6E-10	6.0E-10	6.2E-10	6.3E-10	6.3E-10	6.2E-10	5.9E-10	5.6E-10	5.2E-10	3.5E-10	3.1E-10	2.9E-10	4.2E-10	4.5E-10
9	106-93-4	1,2-Dibromoethane	7.66E-07	No	1.1E-11	12	2.5E-11	3.0E-11	3.4E-11	3.8E-11	4.3E-11	4.9E-11	5.5E-11	6.1E-11	6.5E-11	6.8E-11	6.9E-11	6.9E-11	6.7E-11	6.4E-11	6.1E-11	5.7E-11	3.8E-11	3.4E-11	3.2E-11	4.5E-11	4.9E-11
9	108-38-3	M-XYLENE	8.16E-05	No	1.2E-09	12	2.7E-09	3.1E-09	3.6E-09	4.1E-09	4.6E-09	5.2E-09	5.8E-09	6.5E-09	6.9E-09	7.2E-09	7.3E-09	7.3E-09	7.2E-09	6.9E-09	6.5E-09	6.0E-09	4.0E-09	3.6E-09	3.4E-09	4.8E-09	5.2E-09
9	108-90-7	Chlorobenzene	2.51E-07	No	3.6E-12	12	8.2E-12	9.7E-12	1.1E-11	1.3E-11	1.4E-11	1.6E-11	1.8E-11	2.0E-11	2.1E-11	2.2E-11	2.3E-11	2.3E-11	2.2E-11	2.1E-11	2.0E-11	1.9E-11	1.2E-11	1.1E-11	1.0E-11	1.5E-11	1.6E-11
9	11097-69-1	Aroclor 1254	1.88E-06	No	2.7E-11	12	6.1E-11	7.3E-11	8.3E-11	9.5E-11	1.1E-10	1.2E-10	1.3E-10	1.5E-10	1.6E-10	1.7E-10	1.7E-10	1.7E-10	1.7E-10	1.6E-10	1.5E-10	1.4E-10	9.3E-11	8.4E-11	7.8E-11	1.1E-10	1.2E-10
9	120-82-1	1,2,4-Trichlorobenzene	1.26E-07	No	1.8E-12	12	4.1E-12	4.8E-12	5.6E-12	6.3E-12	7.1E-12	8.0E-12	9.0E-12	9.9E-12	1.1E-11	1.1E-11	1.1E-11	1.1E-11	1.1E-11	1.1E-11	1.0E-11	9.3E-12	6.2E-12	5.6E-12	5.2E-12	7.4E-12	8.0E-12
9	127-18-4	Tetrachloroethene	9.79E-07	No	1.4E-11	12	3.2E-11	3.8E-11	4.3E-11	4.9E-11	5.5E-11	6.3E-11	7.0E-11	7.7E-11	8.3E-11	8.7E-11	8.8E-11	8.8E-11	8.6E-11	8.2E-11	7.8E-11	7.3E-11	4.8E-11	4.4E-11	4.1E-11	5.8E-11	6.2E-11
9	33213-65-9	Endosulfan II	1.38E-06	No	2.0E-11	12	4.5E-11	5.3E-11	6.1E-11	6.9E-11	7.8E-11	8.8E-11	9.9E-11	1.1E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.2E-10	1.1E-10	1.0E-10	6.8E-11	6.2E-11	5.7E-11	8.2E-11	8.8E-11
9	5103-74-2	GAMMA-CHLORDANE	2.13E-06	No	3.1E-11	12	7.0E-11	8.2E-11	9.5E-11	1.1E-10	1.2E-10	1.4E-10	1.5E-10	1.7E-10	1.8E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10	1.8E-10	1.7E-10	1.6E-10	1.0E-10	9.5E-11	8.9E-11	1.3E-10	1.4E-10
9	53494-70-5	Endrin ketone	3.01E-07	No	4.3E-12	12	9.8E-12	1.2E-11	1.3E-11	1.5E-11	1.7E-11	1.9E-11	2.2E-11	2.4E-11	2.6E-11	2.7E-11	2.7E-11	2.7E-11	2.6E-11	2.5E-11	2.4E-11	2.2E-11	1.5E-11	1.3E-11	1.3E-11	1.8E-11	1.9E-11
9	591-78-6	2-Hexanone	4.27E-07	No	6.1E-12	12	1.4E-11	1.6E-11	1.9E-11	2.1E-11	2.4E-11	2.7E-11	3.1E-11	3.4E-11	3.6E-11	3.8E-11	3.8E-11	3.8E-11	3.7E-11	3.6E-11	3.4E-11	3.2E-11	2.1E-11	1.9E-11	1.8E-11	2.5E-11	2.7E-11
9	75-35-4	1,1-Dichloroethene	5.40E-07	No	7.8E-12	12	1.8E-11	2.1E-11	2.4E-11	2.7E-11	3.1E-11	3.5E-11	3.9E-11	4.3E-11	4.6E-11	4.8E-11	4.9E-11	4.8E-11	4.7E-11	4.5E-11	4.3E-11	4.0E-11	2.7E-11	2.4E-11	2.2E-11	3.2E-11	3.4E-11
9	79-34-5	1,1,2,2-Tetrachloroethane	3.64E-07	No	5.2E-12	12	1.2E-11	1.4E-11	1.6E-11	1.8E-11	2.1E-11	2.3E-11	2.6E-11	2.9E-11	3.1E-11	3.2E-11	3.3E-11	3.3E-11	3.2E-11	3.1E-11	2.9E-11	2.7E-11	1.8E-11	1.6E-11	1.5E-11	2.2E-11	2.3E-11
9	87-61-6	1,2,3-Trichlorobenzene	1.63E-07	No	2.3E-12	12	5.3E-12	6.3E-12	7.2E-12	8.2E-12	9.2E-12	1.0E-11	1.2E-11	1.3E-11	1.4E-11	1.4E-11	1.5E-11	1.5E-11	1.4E-11	1.4E-11	1.3E-11	1.2E-11	8.0E-12	7.3E-12	6.8E-12	9.7E-12	1.0E-11
9	96-12-8	1,2-Dibromo-3-Chloropropane	7.41E-07	No	1.1E-11	12	2.4E-11	2.9E-11	3.3E-11	3.7E-11	4.2E-11	4.7E-11	5.3E-11	5.9E-11	6.3E-11	6.6E-11	6.7E-11	6.6E-11	6.5E-11	6.2E-11	5.9E-11	5.5E-11	3.6E-11	3.3E-11	3.1E-11	4.4E-11	4.7E-11
HAUL_N	100-41-4	Ethylbenzene	7.38E-04	No	1.1E-08	6	3.2E-08	4.3E-08	6.3E-08	1.0E-07	2.2E-07	7.9E-07	9.4E-07	6.4E-07	4.7E-07	3.8E-07	3.3E-07	2.9E-07	2.6E-07	2.3E-07	2.0E-07	1.8E-07	9.5E-08	8.1E-08	7.3E-08	1.2E-07	1.5E-07
HAUL_N	100-42-5	Styrene	1.04E-04	No	1.5E-09	6	4.5E-09	6.1E-09	9.0E-09	1.5E-08	3.1E-08	1.1E-07	1.3E-07	9.0E-08	6.7E-08	5.4E-08	4.6E-08	4.1E-08	3.7E-08	3.3E-08	2.9E-08	2.5E-08	1.3E-08	1.1E-08	1.0E-08	1.7E-08	2.1E-08
HAUL_N	103-65-1	n-Propylbenzene	4.90E-04	No	7.0E-09	6	2.1E-08	2.9E-08	4.2E-08	6.9E-08	1.5E-07	5.2E-07	6.3E-07	4.3E-07	3.2E-07	2.5E-07	2.2E-07	1.9E-07	1.7E-07	1.5E-07	1.3E-07	1.2E-07	6.3E-08	5.4E-08	4.8E-08	8.2E-08	9.8E-08
HAUL_N	104-51-8	n-Butylbenzene	5.73E-05	No	8.2E-10	6	2.5E-09	3.4E-09	4.9E-09	8.1E-09	1.7E-08	6.1E-08	7.3E-08	5.0E-08	3.7E-08	3.0E-08	2.6E-08	2.3E-08	2.0E-08	1.8E-08	1.6E-08	1.4E-08	7.3E-09	6.3E-09	5.6E-09	9.6E-09	1.1E-08

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	108-67-8	1,3,5-Trimethylbenzene	3.49E-04	No	5.0E-09	6	1.5E-08	2.1E-08	3.0E-08	4.9E-08	1.0E-07	3.7E-07	4.5E-07	3.0E-07	2.2E-07	1.8E-07	1.6E-07	1.4E-07	1.2E-07	1.1E-07	9.6E-08	8.3E-08	4.5E-08	3.8E-08	3.4E-08	5.8E-08	7.0E-08
HAUL_N	108-88-3	Toluene	2.37E-04	No	3.4E-09	6	1.0E-08	1.4E-08	2.0E-08	3.3E-08	7.1E-08	2.5E-07	3.0E-07	2.1E-07	1.5E-07	1.2E-07	1.1E-07	9.4E-08	8.4E-08	7.5E-08	6.5E-08	5.7E-08	3.0E-08	2.6E-08	2.3E-08	4.0E-08	4.7E-08
HAUL_N	11096-82-5	Aroclor 1260	3.29E-05	No	4.7E-10	6	1.4E-09	1.9E-09	2.8E-09	4.6E-09	9.8E-09	3.5E-08	4.2E-08	2.9E-08	2.1E-08	1.7E-08	1.5E-08	1.3E-08	1.2E-08	1.0E-08	9.0E-09	7.9E-09	4.2E-09	3.6E-09	3.2E-09	5.5E-09	6.6E-09
HAUL_N	120-12-7	Anthracene	1.48E-03	No	2.1E-08	6	6.4E-08	8.7E-08	1.3E-07	2.1E-07	4.4E-07	1.6E-06	1.9E-06	1.3E-06	9.5E-07	7.6E-07	6.6E-07	5.9E-07	5.2E-07	4.7E-07	4.1E-07	3.5E-07	1.9E-07	1.6E-07	1.5E-07	2.5E-07	3.0E-07
HAUL_N	129-00-0	Pyrene	4.09E-04	No	5.9E-09	6	1.8E-08	2.4E-08	3.5E-08	5.8E-08	1.2E-07	4.4E-07	5.2E-07	3.5E-07	2.6E-07	2.1E-07	1.8E-07	1.6E-07	1.5E-07	1.3E-07	1.1E-07	9.8E-08	5.2E-08	4.5E-08	4.0E-08	6.8E-08	8.2E-08
HAUL_N	1330-20-7	XYLENES (TOTAL)	4.74E-03	No	6.8E-08	6	2.1E-07	2.8E-07	4.1E-07	6.7E-07	1.4E-06	5.0E-06	6.1E-06	4.1E-06	3.1E-06	2.5E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.3E-06	1.1E-06	6.1E-07	5.2E-07	4.7E-07	7.9E-07	9.5E-07
HAUL_N	135-98-8	(1-METHYLPROPYL)BENZENE	3.94E-04	No	5.7E-09	6	1.7E-08	2.3E-08	3.4E-08	5.5E-08	1.2E-07	4.2E-07	5.0E-07	3.4E-07	2.5E-07	2.0E-07	1.8E-07	1.6E-07	1.4E-07	1.2E-07	1.1E-07	9.4E-08	5.0E-08	4.3E-08	3.9E-08	6.6E-08	7.9E-08
HAUL_N	179601-23-1	m,p-Xylenes	6.96E-04	No	1.0E-08	6	3.0E-08	4.1E-08	6.0E-08	9.8E-08	2.1E-07	7.4E-07	8.9E-07	6.0E-07	4.5E-07	3.6E-07	3.1E-07	2.8E-07	2.5E-07	2.2E-07	1.9E-07	1.7E-07	8.9E-08	7.6E-08	6.8E-08	1.2E-07	1.4E-07
HAUL_N	67-64-1	2-PROPANONE	6.64E-05	No	9.5E-10	6	2.9E-09	3.9E-09	5.7E-09	9.3E-09	2.0E-08	7.1E-08	8.5E-08	5.8E-08	4.3E-08	3.4E-08	3.0E-08	2.6E-08	2.4E-08	2.1E-08	1.8E-08	1.6E-08	8.5E-09	7.3E-09	6.5E-09	1.1E-08	1.3E-08
HAUL_N	71-43-2	Benzene	5.92E-05	No	8.5E-10	6	2.6E-09	3.5E-09	5.1E-09	8.3E-09	1.8E-08	6.3E-08	7.6E-08	5.1E-08	3.8E-08	3.1E-08	2.6E-08	2.3E-08	2.1E-08	1.9E-08	1.6E-08	1.4E-08	7.6E-09	6.5E-09	5.8E-09	9.9E-09	1.2E-08
HAUL_N	7421-93-4	Endrin aldehyde	1.84E-06	No	2.6E-11	6	8.0E-11	1.1E-10	1.6E-10	2.6E-10	5.5E-10	2.0E-09	2.4E-09	1.6E-09	1.2E-09	9.5E-10	8.2E-10	7.3E-10	6.5E-10	5.8E-10	5.1E-10	4.4E-10	2.4E-10	2.0E-10	1.8E-10	3.1E-10	3.7E-10
HAUL_N	7439-98-7	Molybdenum	1.21E-03	No	1.7E-08	6	5.3E-08	7.1E-08	1.0E-07	1.7E-07	3.6E-07	1.3E-06	1.5E-06	1.0E-06	7.8E-07	6.3E-07	5.4E-07	4.8E-07	4.3E-07	3.8E-07	3.3E-07	2.9E-07	1.5E-07	1.3E-07	1.2E-07	2.0E-07	2.4E-07
HAUL_N	75-09-2	Methylene Chloride	5.66E-06	No	8.1E-11	6	2.5E-10	3.3E-10	4.9E-10	8.0E-10	1.7E-09	6.0E-09	7.2E-09	4.9E-09	3.6E-09	2.9E-09	2.5E-09	2.2E-09	2.0E-09	1.8E-09	1.6E-09	1.4E-09	7.3E-10	6.2E-10	5.6E-10	9.4E-10	1.1E-09
HAUL_N	75-69-4	Trichlorofluoromethane	4.95E-05	No	7.1E-10	6	2.2E-09	2.9E-09	4.3E-09	7.0E-09	1.5E-08	5.3E-08	6.3E-08	4.3E-08	3.2E-08	2.6E-08	2.2E-08	2.0E-08	1.8E-08	1.6E-08	1.4E-08	1.2E-08	6.3E-09	5.4E-09	4.9E-09	8.3E-09	9.9E-09
HAUL_N	78-93-3	2-Butanone	1.30E-05	No	1.9E-10	6	5.7E-10	7.7E-10	1.1E-09	1.8E-09	3.9E-09	1.4E-08	1.7E-08	1.1E-08	8.4E-09	6.7E-09	5.8E-09	5.2E-09	4.6E-09	4.1E-09	3.6E-09	3.1E-09	1.7E-09	1.4E-09	1.3E-09	2.2E-09	2.6E-09
HAUL_N	83-32-9	Acenaphthene	2.00E-03	No	2.9E-08	6	8.7E-08	1.2E-07	1.7E-07	2.8E-07	6.0E-07	2.1E-06	2.5E-06	1.7E-06	1.3E-06	1.0E-06	8.9E-07	7.9E-07	7.1E-07	6.3E-07	5.5E-07	4.8E-07	2.6E-07	2.2E-07	2.0E-07	3.3E-07	4.0E-07
HAUL_N	85-01-8	Phenanthrene	8.96E-02	No	1.3E-06	6	3.9E-06	5.3E-06	7.7E-06	1.3E-05	2.7E-05	9.5E-05	1.1E-04	7.8E-05	5.8E-05	4.6E-05	4.0E-05	3.6E-05	3.2E-05	2.8E-05	2.5E-05	2.1E-05	1.1E-05	9.8E-06	8.8E-06	1.5E-05	1.8E-05
HAUL_N	86-73-7	Fluorene	1.83E-03	No	2.6E-08	6	7.9E-08	1.1E-07	1.6E-07	2.6E-07	5.4E-07	1.9E-06	2.3E-06	1.6E-06	1.2E-06	9.4E-07	8.1E-07	7.2E-07	6.5E-07	5.7E-07	5.0E-07	4.4E-07	2.3E-07	2.0E-07	1.8E-07	3.0E-07	3.6E-07
HAUL_N	91-20-3	Naphthalene	1.08E-03	No	1.5E-08	6	4.7E-08	6.3E-08	9.2E-08	1.5E-07	3.2E-07	1.1E-06	1.4E-06	9.3E-07	6.9E-07	5.6E-07	4.8E-07	4.3E-07	3.8E-07	3.4E-07	3.0E-07	2.6E-07	1.4E-07	1.2E-07	1.1E-07	1.8E-07	2.1E-07
HAUL_N	91-57-6	2-Methylnaphthalene	4.32E-03	No	6.2E-08	6	1.9E-07	2.5E-07	3.7E-07	6.1E-07	1.3E-06	4.6E-06	5.5E-06	3.7E-06	2.8E-06	2.2E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.2E-06	1.0E-06	5.5E-07	4.7E-07	4.2E-07	7.2E-07	8.6E-07
HAUL_N	95-47-6	o-Xylene	1.31E-04	No	1.9E-09	6	5.7E-09	7.7E-09	1.1E-08	1.8E-08	3.9E-08	1.4E-07	1.7E-07	1.1E-07	8.4E-08	6.8E-08	5.9E-08	5.2E-08	4.7E-08	4.1E-08	3.6E-08	3.1E-08	1.7E-08	1.4E-08	1.3E-08	2.2E-08	2.6E-08
HAUL_N	95-50-1	1,2-Dichlorobenzene	3.04E-04	No	4.4E-09	6	1.3E-08	1.8E-08	2.6E-08	4.3E-08	9.1E-08	3.2E-07	3.9E-07	2.6E-07	2.0E-07	1.6E-07	1.4E-07	1.2E-07	1.1E-07	9.6E-08	8.4E-08	7.3E-08	3.9E-08	3.3E-08	3.0E-08	5.1E-08	6.1E-08
HAUL_N	95-63-6	1,2,4-Trimethylbenzene	1.01E-03	No	1.5E-08	6	4.4E-08	6.0E-08	8.7E-08	1.4E-07	3.0E-07	1.1E-06	1.3E-06	8.8E-07	6.5E-07	5.3E-07	4.5E-07	4.0E-07	3.6E-07	3.2E-07	2.8E-07	2.4E-07	1.3E-07	1.1E-07	1.0E-07	1.7E-07	2.0E-07
HAUL_N	98-82-8	1-METHYLETHYLBENZENE	3.35E-04	No	4.8E-09	6	1.5E-08	2.0E-08	2.9E-08	4.7E-08	1.0E-07	3.6E-07	4.3E-07	2.9E-07	2.2E-07	1.7E-07	1.5E-07	1.3E-07	1.2E-07	1.1E-07	9.2E-08	8.0E-08	4.3E-08	3.7E-08	3.3E-08	5.6E-08	6.7E-08
HAUL_N	1031-07-8	Endosulfan sulfate	3.74E-06	No	5.4E-11	6	1.6E-10	2.2E-10	3.2E-10	5.3E-10	1.1E-09	4.0E-09	4.8E-09	3.2E-09	2.4E-09	1.9E-09	1.7E-09	1.5E-09	1.3E-09	1.2E-09	1.0E-09	8.9E-10	4.8E-10	4.1E-10	3.7E-10	6.2E-10	7.5E-10
HAUL_N	106-42-3	P-XYLENE	4.87E-05	No	7.0E-10	6	2.1E-09	2.9E-09	4.2E-09	6.9E-09	1.4E-08	5.2E-08	6.2E-08	4.2E-08	3.1E-08	2.5E-08	2.2E-08	1.9E-08	1.7E-08	1.5E-08	1.3E-08	1.2E-08	6.2E-09	5.3E-09	4.8E-09	8.1E-09	9.7E-09
HAUL_N	106-93-4	1,2-Dibromoethane	5.30E-06	No	7.6E-11	6	2.3E-10	3.1E-10	4.6E-10	7.5E-10	1.6E-09	5.6E-09	6.8E-09	4.6E-09	3.4E-09	2.7E-09	2.4E-09	2.1E-09	1.9E-09	1.7E-09	1.5E-09	1.3E-09	6.8E-10	5.8E-10	5.2E-10	8.8E-10	1.1E-09
HAUL_N	108-38-3	M-XYLENE	5.65E-04	No	8.1E-09	6	2.5E-08	3.3E-08	4.9E-08	8.0E-08	1.7E-07	6.0E-07	7.2E-07	4.9E-07	3.6E-07	2.9E-07	2.5E-07	2.2E-07	2.0E-07	1.8E-07	1.6E-07	1.3E-07	7.2E-08	6.2E-08	5.6E-08	9.4E-08	1.1E-07
HAUL_N	108-90-7	Chlorobenzene	1.74E-06	No	2.5E-11	6	7.5E-11	1.0E-10	1.5E-10	2.4E-10	5.2E-10	1.8E-09	2.2E-09	1.5E-09	1.1E-09	9.0E-10	7.7E-10	6.9E-10	6.2E-10	5.5E-10	4.8E-10	4.1E-10	2.2E-10	1.9E-10	1.7E-10	2.9E-10	3.5E-10
HAUL_N	11097-69-1	Aroclor 1254	1.30E-05	No	1.9E-10	6	5.7E-10	7.7E-10	1.1E-09	1.8E-09	3.9E-09	1.4E-08	1.7E-08	1.1E-08	8.4E-09	6.7E-09	5.8E-09	5.2E-09	4.6E-09	4.1E-09	3.6E-09	3.1E-09	1.7E-09	1.4E-09	1.3E-09	2.2E-09	2.6E-09
HAUL_N	120-82-1	1,2,4-Trichlorobenzene	8.69E-07	No	1.2E-11	6	3.8E-11	5.1E-11	7.5E-11	1.2E-10	2.6E-10	9.2E-10	1.1E-09	7.5E-10	5.6E-10	4.5E-10	3.9E-10	3.4E-10	3.1E-10	2.7E-10	2.4E-10	2.1E-10	1.1E-10	9.5E-11	8.5E-11	1.4E-10	1.7E-10
HAUL_N	127-18-4	Tetrachloroethene	6.78E-06	No	9.7E-11	6	2.9E-10	4.0E-10	5.8E-10	9.5E-10	2.0E-09	7.2E-09	8.6E-09	5.9E-09	4.4E-09	3.5E-09	3.0E-09	2.7E-09	2.4E-09	2.1E-09	1.9E-09	1.6E-09	8.7E-10	7.4E-10	6.7E-10	1.1E-09	1.4E-09
HAUL_N	33213-65-9	Endosulfan II	9.56E-06	No	1.4E-10	6	4.2E-10	5.6E-10	8.2E-10	1.3E-09	2.8E-09	1.0E-08	1.2E-08	8.3E-09	6.1E-09	4.9E-09	4.3E-09	3.8E-09	3.4E-09	3.0E-09	2.6E-09	2.3E-09	1.2E-09	1.1E-09	9.4E-10	1.6E-09	1.9E-09
HAUL_N	5103-74-2	GAMMA-CHLORDANE	1.48E-05	No	2.1E-10	6	6.4E-10	8.7E-10	1.3E-09	2.1E-09	4.4E-09	1.6E-08	1.9E-08	1.3E-08	9.5E-09	7.6E-09	6.6E-09	5.9E-09	5.2E-09	4.7E-09	4.1E-09	3.5E-09	1.9E-09	1.6E-09	1.5E-09	2.5E-09	3.0E-09
HAUL_N	53494-70-5	Endrin ketone	2.09E-06	No	3.0E-11	6	9.1E-11	1.2E-10	1.8E-10	2.9E-10	6.2E-10	2.2E-09	2.7E-09	1.8E-09	1.3E-09	1.1E-09	9.3E-10	8.3E-10	7.4E-10	6.6E-10	5.7E-10	5.0E-10	2.7E-10	2.3E-10	2.1E-10	3.5E-10	4.2E-10
HAUL_N	591-78-6	2-Hexanone	2.95E-06	No	4.2E-11	6	1.3E-10	1.7E-10	2.5E-10	4.2E-10	8.8E-10	3.1E-09	3.8E-09	2.6E-09	1.9E-09	1.5E-09	1.3E-09	1.2E-09	1.0E-09	9.3E-10	8.1E-10	7.1E-10	3.8E-10	3.2E-10	2.9E-10	4.9E-10	5.9E-10
HAUL_N	75-35-4	1,1-Dichloroethene	3.74E-06	No	5.4E-11	6	1.6E-10	2.2E-10	3.2E-10	5.3E-10	1.1E-09	4.0E-09	4.8E-09	3.2E-09	2.4E-09	1.9E-09	1.7E-09	1.5E-09	1.3E-09	1.2E-09	1.0E-09	8.9E-10	4.8E-10	4.1E-10	3.7E-10	6.2E-10	7.5E-10
HAUL_N	79-34-5	1,1,2,2-Tetrachloroethane	2.52E-06	No	3.6E-11	6	1.1E-10	1.5E-10	2.2E-10	3.5E-10	7.5E-10	2.7E-09	3.2E-09	2.2E-09	1.6E-09	1.3E-09	1.1E-09	1.0E-09	9.0E-10	7.9E-10	6.9E-10	6.0E-10	3.2E-10	2.8E-10	2.5E-10	4.2E-10	5.0E-10
HAUL_N	87-61-6	1,2,3-Trichlorobenzene	1.13E-06	No	1.6E-11	6	4.9E-11	6.6E-11	9.7E-11	1.6E-10	3.4E-10	1.2E-09	1.4E-09	9.8E-10	7.3E-10	5.8E-10	5.0E-10	4.5E-10	4.0E-10	3.6E-10	3.1E-10	2.7E-10	1.4E-10	1.2E-10	1.1E-10	1.9E-10	2.3E-10
HAUL_N	96-12-8	1,2-Dibromo-3-Chloropropane	5.13E-06	No	7.4E-11	6	2.2E-10	3.0E-10	4.4E-10	7.2E-10	1.5E-09	5.5E-09	6.5E-09	4.4E-09	3.3E-09	2.7E-09	2.3E-09	2.0E-09	1.8E-09	1.6E-09	1.4E-09	1.2E-09	6.6E-10	5.6E-10	5.0E-10	8.6E-10	1.0E-09
HAUL_S	100-41-4	Ethylbenzene	6.55E-04	No	9.4E-09	5	1.1E-07	2.4E-07	6.5E-07	5.6E-07	3.6E-07	2.3E-07	1.7E-07	1.3E-07	1.0E-07	8.7E-08	7.6E-08	6.9E-08	6.3E-08	5.8E-08	5.5E-08	5.1E-08	3.8E-08	3.4E-08	3.2E-08	4.3E-08	4.9E-08
HAUL_S	100-42-5	Styrene	9.26E-05	No	1.3E-09	5	1.5E-08	3.4E-08	9.2E-08	8.0E-08	5.0E-08	3.3E-08	2.4E-08	1.8E-08	1.5E-08	1.2E-08	1.1E-08	9.7E-09	8.9E-09	8.3E-09	7.7E-09	7.3E-09	5.3E-09	4.8E-09	4.6E-09	6.1E-09	6.9E-09
HAUL_S	103-65-1	n-Propylbenzene	4.35E-04	No	6.3E-09	5	7.3E-08	1.6E-07	4.3E-07	3.7E-07	2.4E-07	1.6E-07	1.1E-07	8.4E-08	6.8E-08	5.8E-08	5.1E-08	4.6E-08	4.2E-08	3.9E-08	3.6E-08	3.4E-08	2.5E-08	2.2E-08	2.2E-08	2.8E-08	3.2E-08
HAUL_S	104-51-8	n-Butylbenzene	5.08E-05	No	7.3E-10	5	8.5E-09	1.9E-08	5.1E-08	4.4E-08	2.8E-08	1.8E-08	1.3E-08	9.9E-09	8.0E-09	6.7E-09	5.9E-09	5.3E-09	4.9E-09	4.5E-09	4.2E-09	4.0E-09	2.9E-09	2.6E-09	2.5E-09	3.3E-09	3.8E-09
HAUL_S	108-67-8	1,3,5-Trimethylbenzene	3.10E-04	No	4.5E-09	5	5.2E-08	1.2E-07	3.1E-07	2.7E-07	1.7E-07	1.1E-07	7.9E-08	6.0E-08	4.9E-08	4.1E-08	3.6E-08	3.3E-08	3.0E-08	2.8E-08	2.6E-08	2.4E-08	1.8E-08	1.6E-08	1.5E-08	2.0E-08	2.3E-08
HAUL_S	108-88-3	Toluene	2.11E-04	No	3.0E-09	5	3.5E-08	7.8E-08	2.1E-07	1.8E-07	1.1E-07	7.5E-08	5.4E-08	4.1E-08	3.3E-08	2.8E-08	2.4E-08	2.2E-08	2.0E-08	1.9E-08	1.8E-08	1.7E-08	1.2E-08	1.1E-08	1.0E-08	1.4E-08	1.6E-08
HAUL_S	11096-82-5	Aroclor 1260	2.92E-05	No	4.2E-10	5	4.9E-09	1.1E-08	2.9E-08	2.5E-08	1.6E-08	1.0E-08	7.4E-09	5.7E-09	4.6E-09	3.9E-09	3.4E-09	3.1E-09	2.8E-09	2.6E-09	2.4E-09	2.3E-09	1.7E-09	1.5E-09	1.5E-09	1.9E-09	2.2E-09
HAUL_S	120-12-7	Anthracene	1.31E-03	No	1.9E-08	5	2.2E-07	4.9E-07	1.3E-06	1.1E-06	7.1E-07	4.7E-07	3.3E-07	2.5E-07	2.1E-07	1.7E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	1.1E-07	1.0E-07	7.5E-08	6.7E-08	6.5E-08	8.6E-08	9.7E-08
HAUL_S	129-00-0	Pyrene	3.63E-04	No	5.2E-09	5	6.1E-08	1.3E-07	3.6E-07	3.1E-07	2.0E-07	1.3E-07	9.2E-08	7.1E-08	5.7E-08	4.8E-08	4.2E-08	3.8E-08	3.5E-08	3.2E-08	3.0E-08	2.8E-08	2.1E-08	1.9E-08	1.8E-08	2.4E-08	2.7E-08
HAUL_S	1330-20-7	XYLENES (TOTAL)	4.21E-03	No	6.1E-08	5	7.0E-07	1.6E-06	4.2E-06	3.6E-06	2.3E-06	1.5E-06	1.1E-06	8.2E-07	6.6E-07	5.6E-07	4.9E-07	4.4E-07	4.1E-07	3.8E-07	3.5E-07	3.3E-07	2.4E-07	2.2E-07	2.1E-07	2.8E-07	3.1E-07
HAUL_S	135-98-8	(1-METHYLPROPYL)BENZENE	3.49E-04	No	5.0E-09	5	5.8E-08	1.3E-07	3.5E-07	3.0E-07	1.9E-07	1.2E-07	8.9E-08	6.8E-08	5.5E-08	4.6E-08	4.1E-08	3.7E-08	3.4E-08	3.1E-08	2.9E-08	2.7E-08	2.0E-08	1.8E-08	1.7E-08	2.3E-08	2.6E-08
HAUL_S	179601-23-1	m,p-Xylenes	6.18E-04	No	8.9E-09	5	1.0E-07	2.3E-07	6.1E-07	5.3E-07	3.4E-07	2.2E-07	1.6E-07	1.2E-07	9.7E-08	8.2E-08	7.2E-08	6.5E-08	5.9E-08	5.5E-08	5.2E-08	4.8E-08	3.5E-08	3.2E-08	3.1E-08	4.0E-08	4.6E-08
HAUL_S	67-64-1	2-PROPANONE	5.89E-05	No	8.5E-10	5	9.8E-09	2.2E-08	5.9E-08	5.1E-08	3.2E-08	2.1E-08	1.5E-08	1.1E-08	9.2E-09	7.8E-09	6.9E-09	6.2E-09	5.7E-09	5.3E-09	4.9E-09	4.6E-09	3.4E-09	3.0E-09	2.9E-09	3.9E-09	4.4E-09
HAUL_S	71-43-2	Benzene	5.25E-05	No	7.6E-10	5	8.8E-09	1.9E-08	5.2E-08	4.5E-08	2.9E-08	1.9E-08	1.3E-08	1.0E-08	8.2E-09	7.0E-09	6.1E-09	5.5E-09	5.1E-09	4.7E-09	4.4E-09	4.1E-09	3.0E-09	2.7E-09	2.6E-09	3.4E-09	3.9E-09
HAUL_S	7421-93-4	Endrin aldehyde	1.64E-06	No	2.4E-11	5	2.7E-10	6.1E-10	1.6E-09	1.4E-09	8.9E-10	5.8E-10	4.2E-10	3.2E-10	2.6E-10	2.2E-10	1.9E-10	1.7E-10	1.6E-10	1.5E-10	1.4E-10	1.3E-10	9.4E-11	8.4E-11	8.1E-11	1.1E-10	1.2E-10
HAUL_S	7439-98-7	Molybdenum	1.07E-03	No	1.5E-08	5	1.8E-07	4.0E-07	1.1E-06	9.2E-07	5.8E-07	3.8E-07	2.7E-07	2.1E-07	1.7E-07	1.4E-07	1.2E-07	1.1E-07	1.0E-07	9.6E-08	8.9E-08	8.4E-08	6.2E-08	5.5E-08	5.3E-08	7.0E-08	8.0E-08
HAUL_S	75-09-2	Methylene Chloride	5.02E-06	No	7.2E-11	5	8.4E-10	1.9E-09	5.0E-09	4.3E-09	2.7E-09	1.8E-09	1.3E-09	9.7E-10	7.9E-10	6.7E-10	5.8E-10	5.3E-10	4.8E-10	4.5E-10	4.2E-10	3.9E-10	2.9E-10	2.6E-10	2.5E-10	3.3E-10	3.7E-10
HAUL_S	75-69-4	Trichlorofluoromethane	4.40E-05	No	6.3E-10	5	7.3E-09	1.6E-08	4.4E-08	3.8E-08	2.4E-08	1.6E-08	1.1E-08	8.5E-09	6.9E-09	5.8E-09	5.1E-09	4.6E-09	4.2E-09	3.9E-09	3.7E-09	3.4E-09	2.5E-09	2.3E-09	2.2E-09	2.9E-09	3.3E-09
HAUL_S	78-93-3	2-Butanone	1.16E-05	No	1.7E-10	5	1.9E-09	4.3E-09	1.2E-08	1.0E-08	6.3E-09	4.1E-09	2.9E-09	2.2E-09	1.8E-09	1.5E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	9.7E-10	9.1E-10	6.6E-10	5.9E-10	5.7E-10	7.6E-10	8.6E-10
HAUL_S	83-32-9	Acenaphthene	1.77E-03	No	2.6E-08	5	3.0E-07	6.6E-07	1.8E-06	1.5E-06	9.7E-07	6.3E-07	4.5E-07	3.4E-07	2.8E-07	2.4E-07	2.1E-07	1.9E-07	1.7E-07	1.6E-07	1.5E-07	1.4E-07	1.0E-07	9.1E-08	8.8E-08	1.2E-07	1.3E-07
HAUL_S	85-01-8	Phenanthrene	7.95E-02	No	1.1E-06	5	1.3E-05	3.0E-05	7.9E-05	6.9E-05	4.3E-05	2.8E-05	2.0E-05	1.5E-05	1.2E-05	1.1E-05	9.3E-06	8.3E-06	7.7E-06	7.1E-06	6.6E-06	6.2E-06	4.6E-06	4.1E-06	3.9E-06	5.2E-06	5.9E-06
HAUL_S	86-73-7	Fluorene	1.62E-03	No	2.3E-08	5	2.7E-07	6.0E-07	1.6E-06	1.4E-06	8.8E-07	5.8E-07	4.1E-07	3.1E-07	2.5E-07	2.2E-07	1.9E-07	1.7E-07	1.6E-07	1.4E-07	1.4E-07	1.3E-07	9.3E-08	8.3E-08	8.0E-08	1.1E-07	1.2E-07
HAUL_S	91-20-3	Naphthalene	9.54E-04	No	1.4E-08	5	1.6E-07	3.5E-07	9.5E-07	8.2E-07	5.2E-07	3.4E-07	2.4E-07	1.9E-07	1.5E-07	1.3E-07	1.1E-07	1.0E-07	9.2E-08	8.5E-08	8.0E-08	7.5E-08	5.5E-08	4.9E-08	4.7E-08	6.2E-08	7.1E-08
HAUL_S	91-57-6	2-Methylnaphthalene	3.83E-03	No	5.5E-08	5	6.4E-07	1.4E-06	3.8E-06	3.3E-06	2.1E-06	1.4E-06	9.8E-07	7.4E-07	6.0E-07	5.1E-07	4.5E-07	4.0E-07	3.7E-07	3.4E-07	3.2E-07	3.0E-07	2.2E-07	2.0E-07	1.9E-07	2.5E-07	2.8E-07
HAUL_S	95-47-6	o-Xylene	1.16E-04	No	1.7E-09	5	1.9E-08	4.3E-08	1.2E-07	1.0E-07	6.3E-08	4.2E-08	3.0E-08	2.3E-08	1.8E-08	1.5E-08	1.4E-08	1.2E-08	1.1E-08	1.0E-08	9.7E-09	9.1E-09	6.7E-09	6.0E-09	5.8E-09	7.6E-09	8.6E-09
HAUL_S	95-50-1	1,2-Dichlorobenzene	2.70E-04	No	3.9E-09	5	4.5E-08	1.0E-07	2.7E-07	2.3E-07	1.5E-07	9.6E-08	6.9E-08	5.2E-08	4.2E-08	3.6E-08	3.1E-08	2.8E-08	2.6E-08	2.4E-08	2.3E-08	2.1E-08	1.5E-08	1.4E-08	1.3E-08	1.8E-08	2.0E-08
HAUL_S	95-63-6	1,2,4-Trimethylbenzene	9.00E-04	No	1.3E-08	5	1.5E-07	3.3E-07	9.0E-07	7.8E-07	4.9E-07	3.2E-07	2.3E-07	1.7E-07	1.4E-07	1.2E-07	1.0E-07	9.4E-08	8.7E-08	8.0E-08	7.5E-08	7.1E-08	5.2E-08	4.6E-08	4.5E-08	5.9E-08	6.7E-08
HAUL_S	98-82-8	1-METHYLETHYLBENZENE	2.98E-04	No	4.3E-09	5	5.0E-08	1.1E-07	3.0E-07	2.6E-07	1.6E-07	1.1E-07	7.6E-08	5.8E-08	4.7E-08	4.0E-08	3.5E-08	3.1E-08	2.9E-08	2.7E-08	2.5E-08	2.3E-08	1.7E-08	1.5E-08	1.5E-08	1.9E-08	2.2E-08

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	Volatile	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_S	1031-07-8	Endosulfan sulfate	3.32E-06	No	4.8E-11	5	5.5E-10	1.2E-09	3.3E-09	2.9E-09	1.8E-09	1.2E-09	8.4E-10	6.4E-10	5.2E-10	4.4E-10	3.9E-10	3.5E-10	3.2E-10	3.0E-10	2.8E-10	2.6E-10	1.9E-10	1.7E-10	1.6E-10	2.2E-10	2.5E-10
HAUL_S	106-42-3	P-XYLENE	4.32E-05	No	6.2E-10	5	7.2E-09	1.6E-08	4.3E-08	3.7E-08	2.4E-08	1.5E-08	1.1E-08	8.4E-09	6.8E-09	5.7E-09	5.0E-09	4.5E-09	4.2E-09	3.9E-09	3.6E-09	3.4E-09	2.5E-09	2.2E-09	2.1E-09	2.8E-09	3.2E-09
HAUL_S	106-93-4	1,2-Dibromoethane	4.71E-06	No	6.8E-11	5	7.8E-10	1.7E-09	4.7E-09	4.1E-09	2.6E-09	1.7E-09	1.2E-09	9.1E-10	7.4E-10	6.2E-10	5.5E-10	4.9E-10	4.5E-10	4.2E-10	3.9E-10	3.7E-10	2.7E-10	2.4E-10	2.3E-10	3.1E-10	3.5E-10
HAUL_S	108-38-3	M-XYLENE	5.01E-04	No	7.2E-09	5	8.4E-08	1.9E-07	5.0E-07	4.3E-07	2.7E-07	1.8E-07	1.3E-07	9.7E-08	7.9E-08	6.7E-08	5.8E-08	5.3E-08	4.8E-08	4.5E-08	4.2E-08	3.9E-08	2.9E-08	2.6E-08	2.5E-08	3.3E-08	3.7E-08
HAUL_S	108-90-7	Chlorobenzene	1.54E-06	No	2.2E-11	5	2.6E-10	5.7E-10	1.5E-09	1.3E-09	8.4E-10	5.5E-10	3.9E-10	3.0E-10	2.4E-10	2.0E-10	1.8E-10	1.6E-10	1.5E-10	1.4E-10	1.3E-10	1.2E-10	8.9E-11	7.9E-11	7.7E-11	1.0E-10	1.1E-10
HAUL_S	11097-69-1	Aroclor 1254	1.16E-05	No	1.7E-10	5	1.9E-09	4.3E-09	1.2E-08	1.0E-08	6.3E-09	4.1E-09	2.9E-09	2.2E-09	1.8E-09	1.5E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	9.7E-10	9.1E-10	6.6E-10	5.9E-10	5.7E-10	7.6E-10	8.6E-10
HAUL_S	120-82-1	1,2,4-Trichlorobenzene	7.71E-07	No	1.1E-11	5	1.3E-10	2.9E-10	7.7E-10	6.6E-10	4.2E-10	2.8E-10	2.0E-10	1.5E-10	1.2E-10	1.0E-10	9.0E-11	8.1E-11	7.4E-11	6.9E-11	6.4E-11	6.0E-11	4.4E-11	4.0E-11	3.8E-11	5.0E-11	5.7E-11
HAUL_S	127-18-4	Tetrachloroethene	6.02E-06	No	8.7E-11	5	1.0E-09	2.2E-09	6.0E-09	5.2E-09	3.3E-09	2.1E-09	1.5E-09	1.2E-09	9.4E-10	8.0E-10	7.0E-10	6.3E-10	5.8E-10	5.4E-10	5.0E-10	4.7E-10	3.5E-10	3.1E-10	3.0E-10	3.9E-10	4.5E-10
HAUL_S	33213-65-9	Endosulfan II	8.48E-06	No	1.2E-10	5	1.4E-09	3.1E-09	8.4E-09	7.3E-09	4.6E-09	3.0E-09	2.2E-09	1.6E-09	1.3E-09	1.1E-09	9.9E-10	8.9E-10	8.2E-10	7.6E-10	7.1E-10	6.7E-10	4.9E-10	4.4E-10	4.2E-10	5.6E-10	6.3E-10
HAUL_S	5103-74-2	GAMMA-CHLORDANE	1.31E-05	No	1.9E-10	5	2.2E-09	4.9E-09	1.3E-08	1.1E-08	7.1E-09	4.7E-09	3.3E-09	2.5E-09	2.1E-09	1.7E-09	1.5E-09	1.4E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	7.5E-10	6.7E-10	6.5E-10	8.6E-10	9.7E-10
HAUL_S	53494-70-5	Endrin ketone	1.85E-06	No	2.7E-11	5	3.1E-10	6.9E-10	1.8E-09	1.6E-09	1.0E-09	6.6E-10	4.7E-10	3.6E-10	2.9E-10	2.5E-10	2.2E-10	1.9E-10	1.8E-10	1.7E-10	1.5E-10	1.5E-10	1.1E-10	9.5E-11	9.2E-11	1.2E-10	1.4E-10
HAUL_S	591-78-6	2-Hexanone	2.62E-06	No	3.8E-11	5	4.4E-10	9.7E-10	2.6E-09	2.3E-09	1.4E-09	9.4E-10	6.7E-10	5.1E-10	4.1E-10	3.5E-10	3.1E-10	2.7E-10	2.5E-10	2.3E-10	2.2E-10	2.1E-10	1.5E-10	1.3E-10	1.3E-10	1.7E-10	1.9E-10
HAUL_S	75-35-4	1,1-Dichloroethene	3.32E-06	No	4.8E-11	5	5.5E-10	1.2E-09	3.3E-09	2.9E-09	1.8E-09	1.2E-09	8.4E-10	6.4E-10	5.2E-10	4.4E-10	3.9E-10	3.5E-10	3.2E-10	3.0E-10	2.8E-10	2.6E-10	1.9E-10	1.7E-10	1.6E-10	2.2E-10	2.5E-10
HAUL_S	79-34-5	1,1,2,2-Tetrachloroethane	2.24E-06	No	3.2E-11	5	3.7E-10	8.3E-10	2.2E-09	1.9E-09	1.2E-09	8.0E-10	5.7E-10	4.3E-10	3.5E-10	3.0E-10	2.6E-10	2.3E-10	2.2E-10	2.0E-10	1.9E-10	1.8E-10	1.3E-10	1.1E-10	1.1E-10	1.5E-10	1.7E-10
HAUL_S	87-61-6	1,2,3-Trichlorobenzene	1.00E-06	No	1.4E-11	5	1.7E-10	3.7E-10	1.0E-09	8.6E-10	5.5E-10	3.6E-10	2.6E-10	1.9E-10	1.6E-10	1.3E-10	1.2E-10	1.1E-10	9.6E-11	8.9E-11	8.4E-11	7.9E-11	5.8E-11	5.1E-11	5.0E-11	6.6E-11	7.4E-11
HAUL_S	96-12-8	1,2-Dibromo-3-Chloropropane	4.55E-06	No	6.5E-11	5	7.6E-10	1.7E-09	4.5E-09	3.9E-09	2.5E-09	1.6E-09	1.2E-09	8.8E-10	7.1E-10	6.0E-10	5.3E-10	4.8E-10	4.4E-10	4.1E-10	3.8E-10	3.6E-10	2.6E-10	2.3E-10	2.3E-10	3.0E-10	3.4E-10
STKP_L_N	100-41-4	Ethylbenzene	6.00E-06	No	8.6E-11	4	3.2E-10	3.8E-10	4.5E-10	5.5E-10	7.5E-10	1.1E-09	1.6E-09	2.2E-09	2.8E-09	3.2E-09	3.3E-09	3.1E-09	2.7E-09	2.2E-09	1.8E-09	1.4E-09	6.7E-10	5.9E-10	5.0E-10	1.1E-09	1.4E-09
STKP_L_N	100-42-5	Styrene	8.49E-07	No	1.2E-11	4	4.5E-11	5.4E-11	6.4E-11	7.8E-11	1.1E-10	1.6E-10	2.3E-10	3.1E-10	3.9E-10	4.5E-10	4.6E-10	4.3E-10	3.8E-10	3.1E-10	2.5E-10	2.0E-10	9.4E-11	8.4E-11	7.0E-11	1.5E-10	2.0E-10
STKP_L_N	103-65-1	n-Propylbenzene	3.99E-06	No	5.7E-11	4	2.1E-10	2.5E-10	3.0E-10	3.7E-10	5.0E-10	7.3E-10	1.1E-09	1.4E-09	1.8E-09	2.1E-09	2.2E-09	2.0E-09	1.8E-09	1.5E-09	1.2E-09	9.6E-10	4.4E-10	3.9E-10	3.3E-10	7.1E-10	9.4E-10
STKP_L_N	104-51-8	n-Butylbenzene	4.66E-07	No	6.7E-12	4	2.5E-11	3.0E-11	3.5E-11	4.3E-11	5.8E-11	8.5E-11	1.2E-10	1.7E-10	2.1E-10	2.5E-10	2.5E-10	2.4E-10	2.1E-10	1.7E-10	1.4E-10	1.1E-10	5.2E-11	4.6E-11	3.9E-11	8.2E-11	1.1E-10
STKP_L_N	108-67-8	1,3,5-Trimethylbenzene	2.84E-06	No	4.1E-11	4	1.5E-10	1.8E-10	2.1E-10	2.6E-10	3.6E-10	5.2E-10	7.6E-10	1.0E-09	1.3E-09	1.5E-09	1.5E-09	1.5E-09	1.3E-09	1.0E-09	8.4E-10	6.8E-10	3.2E-10	2.8E-10	2.4E-10	5.0E-10	6.7E-10
STKP_L_N	108-88-3	Toluene	1.93E-06	No	2.8E-11	4	1.0E-10	1.2E-10	1.4E-10	1.8E-10	2.4E-10	3.5E-10	5.1E-10	7.0E-10	8.9E-10	1.0E-09	1.0E-09	9.9E-10	8.6E-10	7.0E-10	5.7E-10	4.6E-10	2.1E-10	1.9E-10	1.6E-10	3.4E-10	4.5E-10
STKP_L_N	11096-82-5	Aroclor 1260	2.68E-07	No	3.9E-12	4	1.4E-11	1.7E-11	2.0E-11	2.5E-11	3.4E-11	4.9E-11	7.1E-11	9.7E-11	1.2E-10	1.4E-10	1.5E-10	1.4E-10	1.2E-10	9.8E-11	7.9E-11	6.4E-11	3.0E-11	2.6E-11	2.2E-11	4.7E-11	6.3E-11
STKP_L_N	120-12-7	Anthracene	1.20E-05	No	1.7E-10	4	6.4E-10	7.6E-10	9.0E-10	1.1E-09	1.5E-09	2.2E-09	3.2E-09	4.4E-09	5.5E-09	6.3E-09	6.5E-09	6.1E-09	5.3E-09	4.4E-09	3.5E-09	2.9E-09	1.3E-09	1.2E-09	9.9E-10	2.1E-09	2.8E-09
STKP_L_N	129-00-0	Pyrene	3.33E-06	No	4.8E-11	4	1.8E-10	2.1E-10	2.5E-10	3.1E-10	4.2E-10	6.1E-10	8.9E-10	1.2E-09	1.5E-09	1.8E-09	1.8E-09	1.7E-09	1.5E-09	1.2E-09	9.8E-10	8.0E-10	3.7E-10	3.3E-10	2.8E-10	5.9E-10	7.8E-10
STKP_L_N	1330-20-7	XYLENES (TOTAL)	3.86E-05	No	5.6E-10	4	2.1E-09	2.5E-09	2.9E-09	3.6E-09	4.8E-09	7.1E-09	1.0E-08	1.4E-08	1.8E-08	2.0E-08	2.1E-08	2.0E-08	1.7E-08	1.4E-08	1.1E-08	9.3E-09	4.3E-09	3.8E-09	3.2E-09	6.8E-09	9.1E-09
STKP_L_N	135-98-8	(1-METHYLPROPYL)BENZENE	3.20E-06	No	4.6E-11	4	1.7E-10	2.0E-10	2.4E-10	3.0E-10	4.0E-10	5.9E-10	8.5E-10	1.2E-09	1.5E-09	1.7E-09	1.7E-09	1.6E-09	1.4E-09	1.2E-09	9.4E-10	7.7E-10	3.6E-10	3.2E-10	2.6E-10	5.7E-10	7.5E-10
STKP_L_N	179601-23-1	m,p-Xylenes	5.66E-06	No	8.1E-11	4	3.0E-10	3.6E-10	4.2E-10	5.2E-10	7.1E-10	1.0E-09	1.5E-09	2.1E-09	2.6E-09	3.0E-09	3.1E-09	2.9E-09	2.5E-09	2.1E-09	1.7E-09	1.4E-09	6.3E-10	5.6E-10	4.7E-10	1.0E-09	1.3E-09
STKP_L_N	67-64-1	2-PROPANONE	5.40E-07	No	7.8E-12	4	2.9E-11	3.4E-11	4.0E-11	5.0E-11	6.8E-11	9.9E-11	1.4E-10	2.0E-10	2.5E-10	2.8E-10	2.9E-10	2.8E-10	2.4E-10	2.0E-10	1.6E-10	1.3E-10	6.0E-11	5.3E-11	4.5E-11	9.6E-11	1.3E-10
STKP_L_N	71-43-2	Benzene	4.82E-07	No	6.9E-12	4	2.6E-11	3.1E-11	3.6E-11	4.4E-11	6.0E-11	8.8E-11	1.3E-10	1.7E-10	2.2E-10	2.5E-10	2.6E-10	2.5E-10	2.1E-10	1.8E-10	1.4E-10	1.2E-10	5.4E-11	4.8E-11	4.0E-11	8.5E-11	1.1E-10
STKP_L_N	7421-93-4	Endrin aldehyde	1.50E-08	No	2.2E-13	4	8.0E-13	9.5E-13	1.1E-12	1.4E-12	1.9E-12	2.7E-12	4.0E-12	5.4E-12	6.9E-12	7.9E-12	8.1E-12	7.7E-12	6.6E-12	5.5E-12	4.4E-12	3.6E-12	1.7E-12	1.5E-12	1.2E-12	2.7E-12	3.5E-12
STKP_L_N	7439-98-7	Molybdenum	9.84E-06	No	1.4E-10	4	5.2E-10	6.3E-10	7.4E-10	9.1E-10	1.2E-09	1.8E-09	2.6E-09	3.6E-09	4.5E-09	5.2E-09	5.3E-09	5.0E-09	4.4E-09	3.6E-09	2.9E-09	2.4E-09	1.1E-09	9.7E-10	8.1E-10	1.7E-09	2.3E-09
STKP_L_N	75-09-2	Methylene Chloride	4.60E-08	No	6.6E-13	4	2.4E-12	2.9E-12	3.4E-12	4.3E-12	5.8E-12	8.4E-12	1.2E-11	1.7E-11	2.1E-11	2.4E-11	2.5E-11	2.4E-11	2.0E-11	1.7E-11	1.4E-11	1.1E-11	5.1E-12	4.5E-12	3.8E-12	8.1E-12	1.1E-11
STKP_L_N	75-69-4	Trichlorofluoromethane	4.03E-07	No	5.8E-12	4	2.1E-11	2.6E-11	3.0E-11	3.7E-11	5.1E-11	7.4E-11	1.1E-10	1.5E-10	1.8E-10	2.1E-10	2.2E-10	2.1E-10	1.8E-10	1.5E-10	1.2E-10	9.7E-11	4.5E-11	4.0E-11	3.3E-11	7.1E-11	9.4E-11
STKP_L_N	78-93-3	2-Butanone	1.06E-07	No	1.5E-12	4	5.6E-12	6.7E-12	7.9E-12	9.8E-12	1.3E-11	1.9E-11	2.8E-11	3.8E-11	4.9E-11	5.6E-11	5.8E-11	5.4E-11	4.7E-11	3.9E-11	3.1E-11	2.5E-11	1.2E-11	1.0E-11	8.8E-12	1.9E-11	2.5E-11
STKP_L_N	83-32-9	Acenaphthene	1.63E-05	No	2.3E-10	4	8.7E-10	1.0E-09	1.2E-09	1.5E-09	2.0E-09	3.0E-09	4.3E-09	5.9E-09	7.5E-09	8.6E-09	8.8E-09	8.3E-09	7.2E-09	5.9E-09	4.8E-09	3.9E-09	1.8E-09	1.6E-09	1.3E-09	2.9E-09	3.8E-09
STKP_L_N	85-01-8	Phenanthrene	7.29E-04	No	1.0E-08	4	3.9E-08	4.6E-08	5.5E-08	6.7E-08	9.1E-08	1.3E-07	1.9E-07	2.6E-07	3.3E-07	3.8E-07	4.0E-07	3.7E-07	3.2E-07	2.7E-07	2.1E-07	1.8E-07	8.1E-08	7.2E-08	6.0E-08	1.3E-07	1.7E-07
STKP_L_N	86-73-7	Fluorene	1.49E-05	No	2.1E-10	4	7.9E-10	9.4E-10	1.1E-09	1.4E-09	1.9E-09	2.7E-09	4.0E-09	5.4E-09	6.8E-09	7.8E-09	8.1E-09	7.6E-09	6.6E-09	5.4E-09	4.4E-09	3.6E-09	1.7E-09	1.5E-09	1.2E-09	2.6E-09	3.5E-09
STKP_L_N	91-20-3	Naphthalene	8.75E-06	No	1.3E-10	4	4.7E-10	5.6E-10	6.6E-10	8.1E-10	1.1E-09	1.6E-09	2.3E-09	3.2E-09	4.0E-09	4.6E-09	4.7E-09	4.5E-09	3.9E-09	3.2E-09	2.6E-09	2.1E-09	9.7E-10	8.6E-10	7.2E-10	1.5E-09	2.1E-09
STKP_L_N	91-57-6	2-Methylnaphthalene	3.51E-05	No	5.1E-10	4	1.9E-09	2.2E-09	2.6E-09	3.2E-09	4.4E-09	6.4E-09	9.4E-09	1.3E-08	1.6E-08	1.9E-08	1.9E-08	1.8E-08	1.6E-08	1.3E-08	1.0E-08	8.4E-09	3.9E-09	3.5E-09	2.9E-09	6.2E-09	8.2E-09
STKP_L_N	95-47-6	o-Xylene	1.07E-06	No	1.5E-11	4	5.7E-11	6.8E-11	8.0E-11	9.9E-11	1.3E-10	2.0E-10	2.8E-10	3.9E-10	4.9E-10	5.6E-10	5.8E-10	5.5E-10	4.7E-10	3.9E-10	3.1E-10	2.6E-10	1.2E-10	1.1E-10	8.8E-11	1.9E-10	2.5E-10
STKP_L_N	95-50-1	1,2-Dichlorobenzene	2.48E-06	No	3.6E-11	4	1.3E-10	1.6E-10	1.9E-10	2.3E-10	3.1E-10	4.5E-10	6.6E-10	9.0E-10	1.1E-09	1.3E-09	1.3E-09	1.3E-09	1.1E-09	9.0E-10	7.3E-10	5.9E-10	2.8E-10	2.4E-10	2.0E-10	4.4E-10	5.8E-10
STKP_L_N	95-63-6	1,2,4-Trimethylbenzene	8.25E-06	No	1.2E-10	4	4.4E-10	5.2E-10	6.2E-10	7.6E-10	1.0E-09	1.5E-09	2.2E-09	3.0E-09	3.8E-09	4.3E-09	4.5E-09	4.2E-09	3.7E-09	3.0E-09	2.4E-09	2.0E-09	9.2E-10	8.1E-10	6.8E-10	1.5E-09	1.9E-09
STKP_L_N	98-82-8	1-METHYLETHYLBENZENE	2.73E-06	No	3.9E-11	4	1.5E-10	1.7E-10	2.0E-10	2.5E-10	3.4E-10	5.0E-10	7.3E-10	9.9E-10	1.3E-09	1.4E-09	1.5E-09	1.4E-09	1.2E-09	9.9E-10	8.0E-10	6.6E-10	3.0E-10	2.7E-10	2.3E-10	4.8E-10	6.4E-10
STKP_L_N	1031-07-8	Endosulfan sulfate	3.04E-08	No	4.4E-13	4	1.6E-12	1.9E-12	2.3E-12	2.8E-12	3.8E-12	5.6E-12	8.1E-12	1.1E-11	1.4E-11	1.6E-11	1.6E-11	1.6E-11	1.3E-11	1.1E-11	9.0E-12	7.3E-12	3.4E-12	3.0E-12	2.5E-12	5.4E-12	7.1E-12
STKP_L_N	106-42-3	P-XYLENE	3.96E-07	No	5.7E-12	4	2.1E-11	2.5E-11	3.0E-11	3.7E-11	5.0E-11	7.2E-11	1.1E-10	1.4E-10	1.8E-10	2.1E-10	2.1E-10	2.0E-10	1.8E-10	1.4E-10	1.2E-10	9.5E-11	4.4E-11	3.9E-11	3.3E-11	7.0E-11	9.3E-11
STKP_L_N	106-93-4	1,2-Dibromoethane	4.31E-08	No	6.2E-13	4	2.3E-12	2.7E-12	3.2E-12	4.0E-12	5.4E-12	7.9E-12	1.1E-11	1.6E-11	2.0E-11	2.3E-11	2.3E-11	2.2E-11	1.9E-11	1.6E-11	1.3E-11	1.0E-11	4.8E-12	4.3E-12	3.6E-12	7.6E-12	1.0E-11
STKP_L_N	108-38-3	M-XYLENE	4.60E-06	No	6.6E-11	4	2.4E-10	2.9E-10	3.4E-10	4.2E-10	5.8E-10	8.4E-10	1.2E-09	1.7E-09	2.1E-09	2.4E-09	2.5E-09	2.3E-09	2.0E-09	1.7E-09	1.4E-09	1.1E-09	5.1E-10	4.5E-10	3.8E-10	8.1E-10	1.1E-09
STKP_L_N	108-90-7	Chlorobenzene	1.41E-08	No	2.0E-13	4	7.5E-13	9.0E-13	1.1E-12	1.3E-12	1.8E-12	2.6E-12	3.8E-12	5.1E-12	6.5E-12	7.4E-12	7.7E-12	7.2E-12	6.3E-12	5.1E-12	4.2E-12	3.4E-12	1.6E-12	1.4E-12	1.2E-12	2.5E-12	3.3E-12
STKP_L_N	11097-69-1	Aroclor 1254	1.06E-07	No	1.5E-12	4	5.6E-12	6.7E-12	7.9E-12	9.8E-12	1.3E-11	1.9E-11	2.8E-11	3.8E-11	4.9E-11	5.6E-11	5.8E-11	5.4E-11	4.7E-11	3.9E-11	3.1E-11	2.5E-11	1.2E-11	1.0E-11	8.8E-12	1.9E-11	2.5E-11
STKP_L_N	120-82-1	1,2,4-Trichlorobenzene	7.07E-09	No	1.0E-13	4	3.8E-13	4.5E-13	5.3E-13	6.5E-13	8.9E-13	1.3E-12	1.9E-12	2.6E-12	3.2E-12	3.7E-12	3.8E-12	3.6E-12	3.1E-12	2.6E-12	2.1E-12	1.7E-12	7.9E-13	7.0E-13	5.8E-13	1.3E-12	1.7E-12
STKP_L_N	127-18-4	Tetrachloroethene	5.52E-08	No	7.9E-13	4	2.9E-12	3.5E-12	4.1E-12	5.1E-12	6.9E-12	1.0E-11	1.5E-11	2.0E-11	2.5E-11	2.9E-11	3.0E-11	2.8E-11	2.4E-11	2.0E-11	1.6E-11	1.3E-11	6.1E-12	5.4E-12	4.6E-12	9.8E-12	1.3E-11
STKP_L_N	33213-65-9	Endosulfan II	7.78E-08	No	1.1E-12	4	4.1E-12	4.9E-12	5.8E-12	7.2E-12	9.8E-12	1.4E-11	2.1E-11	2.8E-11	3.6E-11	4.1E-11	4.2E-11	4.0E-11	3.4E-11	2.8E-11	2.3E-11	1.9E-11	8.7E-12	7.7E-12	6.4E-12	1.4E-11	1.8E-11
STKP_L_N	5103-74-2	GAMMA-CHLORDANE	1.20E-07	No	1.7E-12	4	6.4E-12	7.6E-12	9.0E-12	1.1E-11	1.5E-11	2.2E-11	3.2E-11	4.4E-11	5.5E-11	6.3E-11	6.5E-11	6.1E-11	5.3E-11	4.4E-11	3.5E-11	2.9E-11	1.3E-11	1.2E-11	9.9E-12	2.1E-11	2.8E-11
STKP_L_N	53494-70-5	Endrin ketone	1.70E-08	No	2.4E-13	4	9.0E-13	1.1E-12	1.3E-12	1.6E-12	2.1E-12	3.1E-12	4.5E-12	6.2E-12	7.8E-12	8.9E-12	9.2E-12	8.7E-12	7.5E-12	6.2E-12	5.0E-12	4.1E-12	1.9E-12	1.7E-12	1.4E-12	3.0E-12	4.0E-12
STKP_L_N	591-78-6	2-Hexanone	2.40E-08	No	3.5E-13	4	1.3E-12	1.5E-12	1.8E-12	2.2E-12	3.0E-12	4.4E-12	6.4E-12	8.7E-12	1.1E-11	1.3E-11	1.3E-11	1.2E-11	1.1E-11	8.7E-12	7.1E-12	5.8E-12	2.7E-12	2.4E-12	2.0E-12	4.3E-12	5.6E-12
STKP_L_N	75-35-4	1,1-Dichloroethene	3.04E-08	No	4.4E-13	4	1.6E-12	1.9E-12	2.3E-12	2.8E-12	3.8E-12	5.6E-12	8.1E-12	1.1E-11	1.4E-11	1.6E-11	1.6E-11	1.6E-11	1.3E-11	1.1E-11	9.0E-12	7.3E-12	3.4E-12	3.0E-12	2.5E-12	5.4E-12	7.1E-12
STKP_L_N	79-34-5	1,1,2,2-Tetrachloroethane	2.05E-08	No	2.9E-13	4	1.1E-12	1.3E-12	1.5E-12	1.9E-12	2.6E-12	3.7E-12	5.5E-12	7.4E-12	9.4E-12	1.1E-11	1.1E-11	1.0E-11	9.1E-12	7.5E-12	6.0E-12	4.9E-12	2.3E-12	2.0E-12	1.7E-12	3.6E-12	4.8E-12
STKP_L_N	87-61-6	1,2,3-Trichlorobenzene	9.19E-09	No	1.3E-13	4	4.9E-13	5.8E-13	6.9E-13	8.5E-13	1.2E-12	1.7E-12	2.4E-12	3.3E-12	4.2E-12	4.8E-12	5.0E-12	4.7E-12	4.1E-12	3.3E-12	2.7E-12	2.2E-12	1.0E-12	9.1E-13	7.6E-13	1.6E-12	2.2E-12
STKP_L_N	96-12-8	1,2-Dibromo-3-Chloropropane	4.17E-08	No	6.0E-13	4	2.2E-12	2.7E-12	3.1E-12	3.9E-12	5.2E-12	7.6E-12	1.1E-11	1.5E-11	1.9E-11	2.2E-11	2.3E-11	2.1E-11	1.8E-11	1.5E-11	1.2E-11	1.0E-11	4.6E-12	4.1E-12	3.5E-12	7.4E-12	9.8E-12
STKP_L_S	100-41-4	Ethylbenzene	5.25E-06	No	7.5E-11	1	1.4E-10	1.7E-10	2.1E-10	2.5E-10	3.0E-10	3.5E-10	4.1E-10	4.6E-10	5.2E-10	5.8E-10	6.3E-10	6.6E-10	6.6E-10	6.5E-10	6.2E-10	5.8E-10	3.6E-10	3.2E-10	2.9E-10	4.3E-10	4.5E-10
STKP_L_S	100-42-5	Styrene	7.42E-07	No	1.1E-11	1	2.0E-11	2.4E-11	2.9E-11	3.5E-11	4.2E-11	5.0E-11	5.7E-11	6.6E-11	7.4E-11	8.3E-11	8.9E-11	9.3E-11	9.4E-11	9.2E-11	8.8E-11	8.2E-11	5.2E-11	4.6E-11	4.2E-11	6.1E-11	6.4E-11
STKP_L_S	103-65-1	n-Propylbenzene	3.49E-06	No	5.0E-11	1	9.5E-11	1.1E-10	1.4E-10	1.7E-10	2.0E-10	2.3E-10	2.7E-10	3.1E-10	3.5E-10	3.9E-10	4.2E-10	4.4E-10	4.4E-10	4.3E-10	4.1E-10	3.9E-10	2.4E-10	2.1E-10	2.0E-10	2.9E-10	3.0E-10
STKP_L_S	104-51-8	n-Butylbenzene	4.07E-07	No	5.9E-12	1	1.1E-11	1.3E-11	1.6E-11	1.9E-11	2.3E-11	2.7E-11	3.1E-11	3.6E-11	4.1E-11	4.5E-11	4.9E-11	5.1E-11	5.1E-11	5.0E-11	4.8E-11	4.5E-11	2.8E-11	2.5E-11	2.3E-11	3.3E-11	3.5E-11
STKP_L_S	108-67-8	1,3,5-Trimethylbenzene	2.49E-06	No	3.6E-11	1	6.8E-11	8.1E-11	9.8E-11	1.2E-10	1.4E-10	1.7E-10	1.9E-10	2.2E-10	2.5E-10	2.8E-10	3.0E-10	3.1E-10	3.1E-10	3.1E-10	2.9E-10	2.8E-10	1.7E-10	1.5E-10	1.4E-10	2.0E-10	2.1E-10
STKP_L_S	108-88-3	Toluene	1.69E-06	No	2.4E-11	1	4.6E-11	5.5E-11	6.7E-11	8.1E-11	9.6E-11	1.1E-10	1.3E-10	1.5E-10	1.7E-10	1.9E-10	2.0E-10	2.1E-10	2.1E-10	2.1E-10	2.0E-10	1.9E-10	1.2E-10	1.0E-10	9.5E-11	1.4E-10	1.4E-10
STKP_L_S	11096-82-5	Aroclor 1260	2.34E-07	No	3.4E-12	1	6.4E-12	7.6E-12	9.2E-12	1.1E-11	1.3E-11	1.6E-11	1.8E-11	2.1E-11	2.3E-11	2.6E-11	2.8E-11	2.9E-11	3.0E-11	2.9E-11	2.8E-11	2.6E-11	1.6E-11	1.4E-11	1.3E-11	1.9E-11	2.0E-11
STKP_L_S	120-12-7	Anthracene	1.05E-05	No	1.5E-10	1	2.9E-10	3.4E-10	4.1E-10	5.0E-10	6.0E-10	7.0E-10	8.1E-10	9.3E-10	1.1E-09	1.2E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.2E-09	1.2E-09	7.3E-10	6.5E-10	5.9E-10	8.6E-10	9.0E-10

ASCON Health Risk Assessment

Supplemental HRA Concentration Calculations - Alternative 4

Step 1. Paste in AERMOD Inputs Here							Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**Volatile**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	129-00-0	Pyrene	2.91E-06	No	4.2E-11	1	7.9E-11	9.5E-11	1.1E-10	1.4E-10	1.7E-10	1.9E-10	2.2E-10	2.6E-10	2.9E-10	3.2E-10	3.5E-10	3.7E-10	3.7E-10	3.6E-10	3.5E-10	3.2E-10	2.0E-10	1.8E-10	1.6E-10	2.4E-10	2.5E-10
STKP_L_S	1330-20-7	XYLENES (TOTAL)	3.37E-05	No	4.9E-10	1	9.2E-10	1.1E-09	1.3E-09	1.6E-09	1.9E-09	2.3E-09	2.6E-09	3.0E-09	3.4E-09	3.8E-09	4.1E-09	4.2E-09	4.3E-09	4.2E-09	4.0E-09	3.8E-09	2.3E-09	2.1E-09	1.9E-09	2.8E-09	2.9E-09
STKP_L_S	135-98-8	(1-METHYLPROPYL)BENZENE	2.80E-06	No	4.0E-11	1	7.6E-11	9.1E-11	1.1E-10	1.3E-10	1.6E-10	1.9E-10	2.2E-10	2.5E-10	2.8E-10	3.1E-10	3.4E-10	3.5E-10	3.5E-10	3.5E-10	3.3E-10	3.1E-10	1.9E-10	1.7E-10	1.6E-10	2.3E-10	2.4E-10
STKP_L_S	179601-23-1	m,p-Xylenes	4.95E-06	No	7.1E-11	1	1.3E-10	1.6E-10	2.0E-10	2.4E-10	2.8E-10	3.3E-10	3.8E-10	4.4E-10	4.9E-10	5.5E-10	6.0E-10	6.2E-10	6.2E-10	6.1E-10	5.9E-10	5.5E-10	3.4E-10	3.0E-10	2.8E-10	4.1E-10	4.3E-10
STKP_L_S	67-64-1	2-PROPANONE	4.72E-07	No	6.8E-12	1	1.3E-11	1.5E-11	1.9E-11	2.3E-11	2.7E-11	3.2E-11	3.6E-11	4.2E-11	4.7E-11	5.3E-11	5.7E-11	5.9E-11	6.0E-11	5.8E-11	5.6E-11	5.3E-11	3.3E-11	2.9E-11	2.6E-11	3.9E-11	4.1E-11
STKP_L_S	71-43-2	Benzene	4.21E-07	No	6.1E-12	1	1.1E-11	1.4E-11	1.7E-11	2.0E-11	2.4E-11	2.8E-11	3.3E-11	3.7E-11	4.2E-11	4.7E-11	5.1E-11	5.3E-11	5.3E-11	5.2E-11	5.0E-11	4.7E-11	2.9E-11	2.6E-11	2.4E-11	3.5E-11	3.6E-11
STKP_L_S	7421-93-4	Endrin aldehyde	1.31E-08	No	1.9E-13	1	3.6E-13	4.3E-13	5.2E-13	6.3E-13	7.5E-13	8.8E-13	1.0E-12	1.2E-12	1.3E-12	1.5E-12	1.6E-12	1.6E-12	1.7E-12	1.6E-12	1.6E-12	1.5E-12	9.1E-13	8.1E-13	7.4E-13	1.1E-12	1.1E-12
STKP_L_S	7439-98-7	Molybdenum	8.60E-06	No	1.2E-10	1	2.3E-10	2.8E-10	3.4E-10	4.1E-10	4.9E-10	5.8E-10	6.6E-10	7.6E-10	8.6E-10	9.6E-10	1.0E-09	1.1E-09	1.1E-09	1.1E-09	1.0E-09	9.6E-10	6.0E-10	5.3E-10	4.8E-10	7.0E-10	7.4E-10
STKP_L_S	75-09-2	Methylene Chloride	4.02E-08	No	5.8E-13	1	1.1E-12	1.3E-12	1.6E-12	1.9E-12	2.3E-12	2.7E-12	3.1E-12	3.6E-12	4.0E-12	4.5E-12	4.9E-12	5.1E-12	5.1E-12	5.0E-12	4.8E-12	4.5E-12	2.8E-12	2.5E-12	2.3E-12	3.3E-12	3.5E-12
STKP_L_S	75-69-4	Trichlorofluoromethane	3.52E-07	No	5.1E-12	1	9.6E-12	1.2E-11	1.4E-11	1.7E-11	2.0E-11	2.4E-11	2.7E-11	3.1E-11	3.5E-11	3.9E-11	4.2E-11	4.4E-11	4.4E-11	4.4E-11	4.2E-11	3.9E-11	2.4E-11	2.2E-11	2.0E-11	2.9E-11	3.0E-11
STKP_L_S	78-93-3	2-Butanone	9.27E-08	No	1.3E-12	1	2.5E-12	3.0E-12	3.7E-12	4.4E-12	5.3E-12	6.2E-12	7.2E-12	8.2E-12	9.3E-12	1.0E-11	1.1E-11	1.2E-11	1.2E-11	1.1E-11	1.1E-11	1.0E-11	6.4E-12	5.7E-12	5.2E-12	7.6E-12	8.0E-12
STKP_L_S	83-32-9	Acenaphthene	1.42E-05	No	2.0E-10	1	3.9E-10	4.6E-10	5.6E-10	6.8E-10	8.1E-10	9.5E-10	1.1E-09	1.3E-09	1.4E-09	1.6E-09	1.7E-09	1.8E-09	1.8E-09	1.8E-09	1.7E-09	1.6E-09	9.9E-10	8.8E-10	8.0E-10	1.2E-09	1.2E-09
STKP_L_S	85-01-8	Phenanthrene	6.37E-04	No	9.2E-09	1	1.7E-08	2.1E-08	2.5E-08	3.0E-08	3.6E-08	4.3E-08	4.9E-08	5.6E-08	6.4E-08	7.1E-08	7.7E-08	8.0E-08	8.0E-08	7.9E-08	7.6E-08	7.1E-08	4.4E-08	3.9E-08	3.6E-08	5.2E-08	5.5E-08
STKP_L_S	86-73-7	Fluorene	1.30E-05	No	1.9E-10	1	3.5E-10	4.2E-10	5.1E-10	6.2E-10	7.4E-10	8.7E-10	1.0E-09	1.1E-09	1.3E-09	1.4E-09	1.6E-09	1.6E-09	1.6E-09	1.6E-09	1.5E-09	1.4E-09	9.0E-10	8.0E-10	7.3E-10	1.1E-09	1.1E-09
STKP_L_S	91-20-3	Naphthalene	7.65E-06	No	1.1E-10	1	2.1E-10	2.5E-10	3.0E-10	3.7E-10	4.4E-10	5.1E-10	5.9E-10	6.8E-10	7.6E-10	8.5E-10	9.2E-10	9.6E-10	9.6E-10	9.5E-10	9.1E-10	8.5E-10	5.3E-10	4.7E-10	4.3E-10	6.3E-10	6.6E-10
STKP_L_S	91-57-6	2-Methylnaphthalene	3.07E-05	No	4.4E-10	1	8.4E-10	1.0E-09	1.2E-09	1.5E-09	1.7E-09	2.1E-09	2.4E-09	2.7E-09	3.1E-09	3.4E-09	3.7E-09	3.9E-09	3.9E-09	3.8E-09	3.6E-09	3.4E-09	2.1E-09	1.9E-09	1.7E-09	2.5E-09	2.6E-09
STKP_L_S	95-47-6	o-Xylene	9.33E-07	No	1.3E-11	1	2.5E-11	3.0E-11	3.7E-11	4.5E-11	5.3E-11	6.2E-11	7.2E-11	8.2E-11	9.3E-11	1.0E-10	1.1E-10	1.2E-10	1.2E-10	1.2E-10	1.1E-10	1.0E-10	6.5E-11	5.7E-11	5.2E-11	7.7E-11	8.0E-11
STKP_L_S	95-50-1	1,2-Dichlorobenzene	2.16E-06	No	3.1E-11	1	5.9E-11	7.1E-11	8.5E-11	1.0E-10	1.2E-10	1.4E-10	1.7E-10	1.9E-10	2.2E-10	2.4E-10	2.6E-10	2.7E-10	2.7E-10	2.7E-10	2.6E-10	2.4E-10	1.5E-10	1.3E-10	1.2E-10	1.8E-10	1.9E-10
STKP_L_S	95-63-6	1,2,4-Trimethylbenzene	7.21E-06	No	1.0E-10	1	2.0E-10	2.4E-10	2.8E-10	3.4E-10	4.1E-10	4.8E-10	5.6E-10	6.4E-10	7.2E-10	8.0E-10	8.7E-10	9.1E-10	9.1E-10	8.9E-10	8.6E-10	8.0E-10	5.0E-10	4.4E-10	4.0E-10	5.9E-10	6.2E-10
STKP_L_S	98-82-8	1-METHYLETHYLBENZENE	2.39E-06	No	3.4E-11	1	6.5E-11	7.8E-11	9.4E-11	1.1E-10	1.4E-10	1.6E-10	1.8E-10	2.1E-10	2.4E-10	2.7E-10	2.9E-10	3.0E-10	3.0E-10	3.0E-10	2.8E-10	2.7E-10	1.7E-10	1.5E-10	1.3E-10	2.0E-10	2.0E-10
STKP_L_S	1031-07-8	Endosulfan sulfate	2.66E-08	No	3.8E-13	1	7.2E-13	8.7E-13	1.0E-12	1.3E-12	1.5E-12	1.8E-12	2.1E-12	2.3E-12	2.7E-12	3.0E-12	3.2E-12	3.3E-12	3.4E-12	3.3E-12	3.2E-12	3.0E-12	1.8E-12	1.6E-12	1.5E-12	2.2E-12	2.3E-12
STKP_L_S	106-42-3	P-XYLENE	3.46E-07	No	5.0E-12	1	9.4E-12	1.1E-11	1.4E-11	1.7E-11	2.0E-11	2.3E-11	2.7E-11	3.1E-11	3.5E-11	3.9E-11	4.2E-11	4.3E-11	4.4E-11	4.3E-11	4.1E-11	3.8E-11	2.4E-11	2.1E-11	1.9E-11	2.8E-11	3.0E-11
STKP_L_S	106-93-4	1,2-Dibromoethane	3.77E-08	No	5.4E-13	1	1.0E-12	1.2E-12	1.5E-12	1.8E-12	2.1E-12	2.5E-12	2.9E-12	3.3E-12	3.8E-12	4.2E-12	4.5E-12	4.7E-12	4.8E-12	4.7E-12	4.5E-12	4.2E-12	2.6E-12	2.3E-12	2.1E-12	3.1E-12	3.2E-12
STKP_L_S	108-38-3	M-XYLENE	4.02E-06	No	5.8E-11	1	1.1E-10	1.3E-10	1.6E-10	1.9E-10	2.3E-10	2.7E-10	3.1E-10	3.5E-10	4.0E-10	4.5E-10	4.8E-10	5.0E-10	5.1E-10	5.0E-10	4.8E-10	4.5E-10	2.8E-10	2.5E-10	2.3E-10	3.3E-10	3.5E-10
STKP_L_S	108-90-7	Chlorobenzene	1.24E-08	No	1.8E-13	1	3.4E-13	4.0E-13	4.9E-13	5.9E-13	7.0E-13	8.3E-13	9.5E-13	1.1E-12	1.2E-12	1.4E-12	1.5E-12	1.6E-12	1.6E-12	1.5E-12	1.5E-12	1.4E-12	8.6E-13	7.6E-13	6.9E-13	1.0E-12	1.1E-12
STKP_L_S	11097-69-1	Aroclor 1254	9.27E-08	No	1.3E-12	1	2.5E-12	3.0E-12	3.7E-12	4.4E-12	5.3E-12	6.2E-12	7.2E-12	8.2E-12	9.3E-12	1.0E-11	1.1E-11	1.2E-11	1.2E-11	1.1E-11	1.1E-11	1.0E-11	6.4E-12	5.7E-12	5.2E-12	7.6E-12	8.0E-12
STKP_L_S	120-82-1	1,2,4-Trichlorobenzene	6.18E-09	No	8.9E-14	1	1.7E-13	2.0E-13	2.4E-13	3.0E-13	3.5E-13	4.1E-13	4.8E-13	5.5E-13	6.2E-13	6.9E-13	7.5E-13	7.8E-13	7.8E-13	7.6E-13	7.3E-13	6.9E-13	4.3E-13	3.8E-13	3.5E-13	5.1E-13	5.3E-13
STKP_L_S	127-18-4	Tetrachloroethene	4.82E-08	No	6.9E-13	1	1.3E-12	1.6E-12	1.9E-12	2.3E-12	2.7E-12	3.2E-12	3.7E-12	4.3E-12	4.8E-12	5.4E-12	5.8E-12	6.1E-12	6.1E-12	6.0E-12	5.7E-12	5.4E-12	3.3E-12	3.0E-12	2.7E-12	4.0E-12	4.1E-12
STKP_L_S	33213-65-9	Endosulfan II	6.80E-08	No	9.8E-13	1	1.8E-12	2.2E-12	2.7E-12	3.2E-12	3.9E-12	4.5E-12	5.3E-12	6.0E-12	6.8E-12	7.6E-12	8.2E-12	8.5E-12	8.6E-12	8.4E-12	8.1E-12	7.6E-12	4.7E-12	4.2E-12	3.8E-12	5.6E-12	5.8E-12
STKP_L_S	5103-74-2	GAMMA-CHLORDANE	1.05E-07	No	1.5E-12	1	2.9E-12	3.4E-12	4.1E-12	5.0E-12	6.0E-12	7.0E-12	8.1E-12	9.3E-12	1.1E-11	1.2E-11	1.3E-11	1.3E-11	1.3E-11	1.3E-11	1.2E-11	1.2E-11	7.3E-12	6.5E-12	5.9E-12	8.6E-12	9.0E-12
STKP_L_S	53494-70-5	Endrin ketone	1.48E-08	No	2.1E-13	1	4.0E-13	4.8E-13	5.8E-13	7.1E-13	8.4E-13	9.9E-13	1.1E-12	1.3E-12	1.5E-12	1.7E-12	1.8E-12	1.9E-12	1.9E-12	1.8E-12	1.8E-12	1.6E-12	1.0E-12	9.1E-13	8.3E-13	1.2E-12	1.3E-12
STKP_L_S	591-78-6	2-Hexanone	2.10E-08	No	3.0E-13	1	5.7E-13	6.9E-13	8.3E-13	1.0E-12	1.2E-12	1.4E-12	1.6E-12	1.9E-12	2.1E-12	2.3E-12	2.5E-12	2.6E-12	2.7E-12	2.6E-12	2.5E-12	2.3E-12	1.5E-12	1.3E-12	1.2E-12	1.7E-12	1.8E-12
STKP_L_S	75-35-4	1,1-Dichloroethene	2.66E-08	No	3.8E-13	1	7.2E-13	8.7E-13	1.0E-12	1.3E-12	1.5E-12	1.8E-12	2.1E-12	2.3E-12	2.7E-12	3.0E-12	3.2E-12	3.3E-12	3.4E-12	3.3E-12	3.2E-12	3.0E-12	1.8E-12	1.6E-12	1.5E-12	2.2E-12	2.3E-12
STKP_L_S	79-34-5	1,1,2,2-Tetrachloroethane	1.79E-08	No	2.6E-13	1	4.9E-13	5.9E-13	7.1E-13	8.6E-13	1.0E-12	1.2E-12	1.4E-12	1.6E-12	1.8E-12	2.0E-12	2.2E-12	2.3E-12	2.3E-12	2.2E-12	2.1E-12	2.0E-12	1.2E-12	1.1E-12	1.0E-12	1.5E-12	1.5E-12
STKP_L_S	87-61-6	1,2,3-Trichlorobenzene	8.04E-09	No	1.2E-13	1	2.2E-13	2.6E-13	3.2E-13	3.8E-13	4.6E-13	5.4E-13	6.2E-13	7.1E-13	8.0E-13	8.9E-13	9.7E-13	1.0E-12	1.0E-12	9.9E-13	9.5E-13	8.9E-13	5.6E-13	4.9E-13	4.5E-13	6.6E-13	6.9E-13
STKP_L_S	96-12-8	1,2-Dibromo-3-Chloropropane	3.65E-08	No	5.2E-13	1	9.9E-13	1.2E-12	1.4E-12	1.7E-12	2.1E-12	2.4E-12	2.8E-12	3.2E-12	3.6E-12	4.1E-12	4.4E-12	4.6E-12	4.6E-12	4.5E-12	4.3E-12	4.1E-12	2.5E-12	2.2E-12	2.0E-12	3.0E-12	3.1E-12
3_1	103-65-1	#N/A	1.14E-01	Yes	1.6E-06	15	1.7E-06	1.9E-06	2.2E-06	2.6E-06	3.1E-06	3.7E-06	4.3E-06	5.2E-06	6.4E-06	8.1E-06	1.1E-05	1.5E-05	2.3E-05	3.9E-05	7.4E-05	1.3E-04	5.0E-05	3.4E-05	3.1E-05	3.4E-05	2.0E-05
3_2	103-65-1	#N/A	2.01E+01	Yes	2.9E-04	16	2.3E-03	4.2E-03	5.5E-03	6.3E-03	6.9E-03	7.5E-03	7.9E-03	8.1E-03	8.0E-03	7.9E-03	8.0E-03	8.2E-03	8.5E-03	8.6E-03	8.4E-03	8.0E-03	2.8E-03	2.3E-03	2.0E-03	3.5E-03	3.7E-03
8	103-65-1	#N/A	3.60E-01	Yes	5.2E-06	19	8.0E-05	2.4E-04	3.4E-04	3.6E-04	3.8E-04	4.0E-04	4.1E-04	3.9E-04	3.7E-04	3.4E-04	3.4E-04	3.5E-04	3.8E-04	3.9E-04	4.0E-04	4.1E-04	1.1E-04	8.1E-05	6.7E-05	1.2E-04	1.2E-04
9	103-65-1	#N/A	7.30E-01	Yes	1.1E-05	12	2.4E-05	2.8E-05	3.2E-05	3.7E-05	4.1E-05	4.7E-05	5.2E-05	5.8E-05	6.2E-05	6.5E-05	6.6E-05	6.6E-05	6.4E-05	6.1E-05	5.8E-05	5.4E-05	3.6E-05	3.3E-05	3.0E-05	4.3E-05	4.6E-05
B_7	103-65-1	#N/A	6.08E-04	Yes	8.7E-09	35	9.4E-08	1.4E-07	2.2E-07	4.2E-07	8.0E-07	1.2E-06	1.2E-06	9.5E-07	6.5E-07	4.4E-07	3.1E-07	2.3E-07	1.7E-07	1.3E-07	1.0E-07	8.3E-08	4.1E-08	4.3E-08	3.1E-08	8.0E-08	1.2E-07
HAUL_N	103-65-1	#N/A	2.90E-01	Yes	4.2E-06	6	1.3E-05	1.7E-05	2.5E-05	4.1E-05	8.6E-05	3.1E-04	3.7E-04	2.5E-04	1.9E-04	1.5E-04	1.3E-04	1.2E-04	1.0E-04	9.1E-05	8.0E-05	6.9E-05	3.7E-05	3.2E-05	2.9E-05	4.8E-05	5.8E-05
STKP_L_N	103-65-1	#N/A	2.22E+00	Yes	3.2E-05	4	1.2E-04	1.4E-04	1.7E-04	2.0E-04	2.8E-04	4.0E-04	5.9E-04	8.0E-04	1.0E-03	1.2E-03	1.2E-03	1.1E-03	9.8E-04	8.1E-04	6.5E-04	5.3E-04	2.5E-04	2.2E-04	1.8E-04	3.9E-04	5.2E-04
STKP_L_S	103-65-1	#N/A	1.63E+00	Yes	2.3E-05	1	4.4E-05	5.3E-05	6.4E-05	7.8E-05	9.3E-05	1.1E-04	1.3E-04	1.4E-04	1.6E-04	1.8E-04	2.0E-04	2.0E-04	2.1E-04	2.0E-04	1.9E-04	1.8E-04	1.1E-04	1.0E-04	9.1E-05	1.3E-04	1.4E-04
3_1	104-51-8	#N/A	1.04E-02	Yes	1.5E-07	15	1.5E-07	1.8E-07	2.0E-07	2.4E-07	2.8E-07	3.3E-07	4.0E-07	4.8E-07	5.9E-07	7.4E-07	9.8E-07	1.4E-06	2.1E-06	3.6E-06	6.8E-06	1.1E-05	4.5E-06	3.1E-06	2.9E-06	3.1E-06	1.8E-06
3_2	104-51-8	#N/A	1.83E+00	Yes	2.6E-05	16	2.1E-04	3.8E-04	5.0E-04	5.7E-04	6.3E-04	6.8E-04	7.2E-04	7.4E-04	7.3E-04	7.2E-04	7.3E-04	7.5E-04	7.7E-04	7.8E-04	7.7E-04	7.3E-04	2.6E-04	2.1E-04	1.8E-04	3.2E-04	3.4E-04
8	104-51-8	#N/A	3.28E-02	Yes	4.7E-07	19	7.3E-06	2.2E-05	3.1E-05	3.3E-05	3.5E-05	3.6E-05	3.7E-05	3.6E-05	3.3E-05	3.1E-05	3.1E-05	3.2E-05	3.4E-05	3.6E-05	3.6E-05	3.8E-05	1.0E-05	7.4E-06	6.1E-06	1.1E-05	1.1E-05
9	104-51-8	#N/A	6.66E-02	Yes	9.6E-07	12	2.2E-06	2.6E-06	3.0E-06	3.3E-06	3.8E-06	4.3E-06	4.8E-06	5.3E-06	5.6E-06	5.9E-06	6.0E-06	6.0E-06	5.8E-06	5.6E-06	5.3E-06	4.9E-06	3.3E-06	3.0E-06	2.8E-06	3.9E-06	4.2E-06
HAUL_N	104-51-8	#N/A	2.65E-02	Yes	3.8E-07	6	1.2E-06	1.6E-06	2.3E-06	3.7E-06	7.9E-06	2.8E-05	3.4E-05	2.3E-05	1.7E-05	1.4E-05	1.2E-05	1.1E-05	9.4E-06	8.4E-06	7.3E-06	6.3E-06	3.4E-06	2.9E-06	2.6E-06	4.4E-06	5.3E-06
STKP_L_N	104-51-8	#N/A	2.02E-01	Yes	2.9E-06	4	1.1E-05	1.3E-05	1.5E-05	1.9E-05	2.5E-05	3.7E-05	5.4E-05	7.3E-05	9.3E-05	1.1E-04	1.1E-04	1.0E-04	9.0E-05	7.4E-05	6.0E-05	4.9E-05	2.3E-05	2.0E-05	1.7E-05	3.6E-05	4.7E-05
STKP_L_S	104-51-8	#N/A	1.48E-01	Yes	2.1E-06	1	4.0E-06	4.8E-06	5.9E-06	7.1E-06	8.5E-06	9.9E-06	1.1E-05	1.3E-05	1.5E-05	1.7E-05	1.8E-05	1.9E-05	1.9E-05	1.8E-05	1.8E-05	1.7E-05	1.0E-05	9.1E-06	8.3E-06	1.2E-05	1.3E-05
2_2	135-98-8	#N/A	1.93E+00	Yes	2.8E-05	8	5.0E-05	5.7E-05	6.4E-05	7.3E-05	8.8E-05	1.1E-04	1.4E-04	1.4E-04	1.4E-04	1.3E-04	1.2E-04	1.1E-04	1.0E-04	9.5E-05	8.4E-05	7.5E-05	4.8E-05	4.9E-05	3.9E-05	7.6E-05	9.5E-05
3_1	135-98-8	#N/A	1.36E-02	Yes	2.0E-07	15	2.0E-07	2.3E-07	2.7E-07	3.1E-07	3.7E-07	4.4E-07	5.2E-07	6.2E-07	7.7E-07	9.7E-07	1.3E-06	1.8E-06	2.8E-06	4.7E-06	8.9E-06	1.5E-05	5.9E-06	4.1E-06	3.7E-06	4.1E-06	2.4E-06
3_2	135-98-8	#N/A	2.45E+00	Yes	3.5E-05	16	2.8E-04	5.1E-04	6.7E-04	7.6E-04	8.4E-04	9.1E-04	9.6E-04	9.8E-04	9.7E-04	9.6E-04	9.7E-04	1.0E-03	1.0E-03	1.0E-03	1.0E-03	9.8E-04	3.4E-04	2.8E-04	2.4E-04	4.3E-04	4.5E-04
8	135-98-8	#N/A	4.30E-02	Yes	6.2E-07	19	9.6E-06	2.8E-05	4.0E-05	4.4E-05	4.6E-05	4.8E-05	4.9E-05	4.7E-05	4.4E-05	4.1E-05	4.1E-05	4.2E-05	4.5E-05	4.7E-05	4.8E-05	4.9E-05	1.3E-05	9.7E-06	8.0E-06	1.5E-05	1.4E-05
9	135-98-8	#N/A	8.72E-02	Yes	1.3E-06	12	2.8E-06	3.4E-06	3.9E-06	4.4E-06	4.9E-06	5.6E-06	6.2E-06	6.9E-06	7.4E-06	7.7E-06	7.9E-06	7.8E-06	7.7E-06	7.3E-06	6.9E-06	6.5E-06	4.3E-06	3.9E-06	3.6E-06	5.2E-06	5.5E-06
B_7	135-98-8	#N/A	4.35E-06	Yes	6.3E-11	35	6.8E-10	1.0E-09	1.6E-09	3.0E-09	5.8E-09	8.6E-09	8.9E-09	6.8E-09	4.7E-09	3.2E-09	2.2E-09	1.6E-09	1.2E-09	9.4E-10	7.4E-10	5.9E-10	2.9E-10	3.1E-10	2.2E-10	5.7E-10	8.3E-10
HAUL_N	135-98-8	#N/A	3.56E-02	Yes	5.1E-07	6	1.5E-06	2.1E-06	3.1E-06	5.0E-06	1.1E-05	3.8E-05	4.5E-05	3.1E-05	2.3E-05	1.8E-05	1.6E-05	1.4E-05	1.3E-05	1.1E-05	9.8E-06	8.5E-06	4.6E-06	3.9E-06	3.5E-06	5.9E-06	7.1E-06
STKP_L_N	135-98-8	#N/A	2.67E-01	Yes	3.8E-06	4	1.4E-05	1.7E-05	2.0E-05	2.5E-05	3.3E-05	4.9E-05	7.1E-05	9.7E-05	1.2E-04	1.4E-04	1.4E-04	1.4E-04	1.2E-04	9.7E-05	7.9E-05	6.4E-05	3.0E-05	2.6E-05	2.2E-05	4.7E-05	6.3E-05
STKP_L_S	135-98-8	#N/A	1.96E-01	Yes	2.8E-06	1	5.3E-06	6.4E-06	7.7E-06	9.4E-06	1.1E-05	1.3E-05	1.5E-05	1.7E-05	2.0E-05	2.2E-05	2.4E-05	2.5E-05	2.5E-05	2.4E-05	2.3E-05	2.2E-05	1.4E-05	1.2E-05	1.1E-05	1.6E-05	1.7E-05
3_1	591-78-6	#N/A	2.45E-04	Yes	3.5E-09	15	3.6E-09	4.2E-09	4.8E-09	5.6E-09	6.6E-09	7.8E-09	9.3E-09	1.1E-08	1.4E-08	1.7E-08	2.3E-08	3.3E-08	5.0E-08	8.5E-08	1.6E-07	2.7E-07	1.1E-07	7.3E-08	6.7E-08	7.4E-08	4.3E-08
3_2	591-78-6	#N/A	4.34E-02	Yes	6.2E-07	16	5.0E-06	9.1E-06	1.2E-05	1.4E-05	1.5E-05	1.6E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.8E-05	1.8E-05	1.9E-05	1.8E-05	1.7E-05	6.1E-06	5.0E-06	4.3E-06	7.6E-06	8.1E-06
8	591-78-6	#N/A	7.73E-04	Yes	1.1E-08	19	1.7E-07	5.1E-07	7.2E-07	7.8E-07	8.2E-07	8.6E-07	8.8E-07	8.4E-07	7.9E-07	7.4E-07	7.3E-07	7.6E-07	8.1E-07	8.4E-07	8.6E-07	8.9E-07	2.4E-07	1.7E-07	1.4E-07	2.6E-07	2.6E-07
9	591-78-6	#N/A	1.57E-03	Yes	2.3E-08	12	5.1E-08	6.0E-08	6.9E-08	7.9E-08	8.9E-08	1.0E-07	1.1E-07	1.2E-07	1.3E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.3E-07	1.2E-07	1.2E-07	7.7E-08	7.0E-08	6.5E-08	9.3E-08	1.0E-07
HAUL_N	591-78-6	#N/A	6.29E-04	Yes	9.0E-09	6	2.7E-08	3.7E-08	5.4E-08	8.9E-08	1.9E-07	6.7E-07	8.0E-07	5.5E-07	4.0E-07	3.3E-07	2.8E-07	2.5E-07	2.2E-07	2.0E-07	1.7E-07	1.5E-07	8.1E-08	6.9E-08	6.2E-08	1.0E-07	1.3E-07
STKP_L_N	591-78-6	#N/A	4.77E-03	Yes	6.9E-08	4	2.5E-07	3.0E-07	3.6E-07	4.4E-07	6.0E-07	8.7E-07	1.3E-06	1.7E-06	2.2E-06	2.5E-06	2.6E-06	2.4E-06	2.1E-06	1.7E-06	1.4E-06	1.1E-06	5.3E-07	4.7E-07	3.9E-07	8.4E-07	1.1E-06
STKP_L_S	591-78-6	#N/A	3.50E-03	Yes	5.0E-08	1	9.5E-08	1.1E-07	1.4E-07	1.7E-07	2.0E-07	2.3E-07	2.7E-07	3.1E-07	3.5E-07	3.9E-07	4.2E-07	4.4E-07	4.4E-07	4.3E-07	4.2E-07	3.9E-07	2.4E-07	2.2E-07	2.0E-07	2.9E-07	3.0E-07
2_2	75-15-0	#N/A	2.78E+00	Yes	4.0E-05	8	7.2E-05	8.2E-05	9.2E-05	1.0E-04	1.3E-04	1.6E-04	2.0E-04	2.0E-04	2.0E-04	1.9E-04	1.7E-04	1.6E-04	1.5E-04	1.4E-04	1.2E-04	1.1E-04	6.9E-05	7.1E-05	5.5E-05	1.1E-04	1.4E-04

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	100-41-4	Ethylbenzene	1.59E-02	2.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	100-42-5	Styrene	9.96E-03	1.4E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	103-65-1	n-Propylbenzene	1.95E-03	2.8E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	104-51-8	n-Butylbenzene	3.52E-04	5.1E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-67-8	1,3,5-Trimethylbenzene	1.10E-03	1.6E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-88-3	Toluene	1.19E-03	1.7E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	11096-82-5	Aroclor 1260	1.05E-04	1.5E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	120-12-7	Anthracene	9.75E-04	1.4E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	129-00-0	Pyrene	3.10E-04	4.5E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1330-20-7	XYLENES (TOTAL)	6.04E-03	8.7E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	135-98-8	(1-METHYLPROPYL)BENZENE	8.66E-03	1.2E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	179601-23-1	m,p-Xylenes	2.70E-03	3.9E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	67-64-1	2-PROPANONE	2.31E-03	3.3E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	71-43-2	Benzene	7.46E-04	1.1E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	7421-93-4	Endrin aldehyde	2.46E-06	3.5E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	7439-98-7	Molybdenum	2.21E-03	3.2E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-09-2	Methylene Chloride	1.01E-03	1.5E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-69-4	Trichlorofluoromethane	3.39E-04	4.9E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	78-93-3	2-Butanone	6.56E-04	9.4E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	83-32-9	Acenaphthene	2.52E-04	3.6E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	85-01-8	Phenanthrene	9.50E-02	1.4E-06	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	86-73-7	Fluorene	1.53E-03	2.2E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	91-20-3	Naphthalene	1.19E-02	1.7E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	91-57-6	2-Methylnaphthalene	5.16E-03	7.4E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-47-6	o-Xylene	1.30E-03	1.9E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-50-1	1,2-Dichlorobenzene	1.90E-04	2.7E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	95-63-6	1,2,4-Trimethylbenzene	3.33E-03	4.8E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	98-82-8	1-METHYLETHYLBENZENE	9.67E-03	1.4E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	10042-59-8	2-PROPYL-1-HEPTANOL	2.32E-02	3.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1031-07-8	Endosulfan sulfate	5.24E-06	7.5E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-42-3	P-XYLENE	4.75E-04	6.8E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-43-4	4-Chlorotoluene	1.46E-03	2.1E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-46-7	1,4-Dichlorobenzene	2.80E-04	4.0E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	106-93-4	1,2-Dibromoethane	7.43E-06	1.1E-10	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	107-06-2	1,2-Dichloroethane	1.22E-02	1.8E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-38-3	M-XYLENE	3.29E-02	4.7E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	108-90-7	Chlorobenzene	8.04E-03	1.2E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	11097-69-1	Aroclor 1254	7.43E-03	1.1E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	120-82-1	1,2,4-Trichlorobenzene	1.22E-06	1.8E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	12672-29-6	Aroclor 1248	6.34E-03	9.1E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	12674-11-2	Aroclor 1016	1.95E-03	2.8E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	127-18-4	Tetrachloroethene	9.51E-06	1.4E-10	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	132-64-9	Dibenzofuran	6.58E-04	9.5E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1653-40-3	6-METHYL-1,1-HEPTANOL	3.66E-02	5.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	4.02E-03	5.8E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.01E-02	1.5E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	5.00E-03	7.2E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	4.14E-03	6.0E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	26952-21-6	ISOOCTANOL	1.34E-02	1.9E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	2719-52-0	(1-METHYLBUTYL)BENZENE	7.43E-03	1.1E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	2883-05-8	2-CYCLOHEXYLDECANE	9.87E-03	1.4E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	33213-65-9	Endosulfan II	1.34E-05	1.9E-10	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	3875-51-2	1-METHYLETHYLCYCLOPENTANE	5.12E-03	7.4E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	3.29E-03	4.7E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	496-10-6	OCTAHYDROINDENE	3.78E-02	5.4E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	5103-74-2	GAMMA-CHLORDANE	2.07E-05	3.0E-10	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	9.14E-03	1.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	53469-21-9	Aroclor 1242	5.12E-03	7.4E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	53494-70-5	Endrin ketone	3.66E-06	5.3E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.88E-02	7.0E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.19E-03	3.2E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	9.38E-03	1.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	591-78-6	2-Hexanone	4.14E-06	6.0E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	65-85-0	Benzoic acid	1.95E-04	2.8E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	67-66-3	Chloroform	3.05E-02	4.4E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	71-55-6	1,1,1-Trichloroethane	1.58E-02	2.3E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-34-3	1,1-Dichloroethane	8.53E-04	1.2E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	75-35-4	1,1-Dichloroethene	5.24E-06	7.5E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.05E-02	1.5E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	79-34-5	1,1,2,2-Tetrachloroethane	1.15E-04	1.6E-09	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	87-61-6	1,2,3-Trichlorobenzene	1.58E-06	2.3E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	91-17-8	DECAHYDRONAPHTHALENE	1.83E-02	2.6E-07	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.44E-03	3.5E-08	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	96-12-8	1,2-Dibromo-3-Chloropropane	7.19E-06	1.0E-10	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
1	98-06-6	tert-Butylbenzene	3.29E-06	4.7E-11	19	8.0E+00	1.4E+01	1.8E+01	2.1E+01	2.3E+01	2.5E+01	2.6E+01	2.7E+01	2.6E+01	2.6E+01	2.6E+01	2.7E+01	2.8E+01	2.8E+01	2.8E+01	2.6E+01	9.6E+00	7.8E+00	6.8E+00	1.2E+01	1.3E+01
2_1	100-41-4	Ethylbenzene	1.48E-03	2.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	100-42-5	Styrene	9.30E-04	1.3E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	103-65-1	n-Propylbenzene	1.83E-04	2.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	104-51-8	n-Butylbenzene	3.29E-05	4.7E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-67-8	1,3,5-Trimethylbenzene	1.02E-04	1.5E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-88-3	Toluene	1.11E-04	1.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	11096-82-5	Aroclor 1260	9.81E-06	1.4E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	120-12-7	Anthracene	9.11E-05	1.3E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	129-00-0	Pyrene	2.89E-05	4.2E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1330-20-7	XYLENES (TOTAL)	5.64E-04	8.1E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	135-98-8	(1-METHYLPROPYL)BENZENE	8.08E-04	1.2E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	179601-23-1	m,p-Xylenes	2.53E-04	3.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	67-64-1	2-PROPANONE	2.16E-04	3.1E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	71-43-2	Benzene	6.97E-05	1.0E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	7421-93-4	Endrin aldehyde	2.30E-07	3.3E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	7439-98-7	Molybdenum	2.06E-04	3.0E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-09-2	Methylene Chloride	9.45E-05	1.4E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-69-4	Trichlorofluoromethane	3.16E-05	4.6E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	78-93-3	2-Butanone	6.12E-05	8.8E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	83-32-9	Acenaphthene	2.36E-05	3.4E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	85-01-8	Phenanthrene	8.87E-03	1.3E-07	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	86-73-7	Fluorene	1.43E-04	2.1E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	91-20-3	Naphthalene	1.11E-03	1.6E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	91-57-6	2-Methylnaphthalene	4.82E-04	6.9E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	95-47-6	o-Xylene	1.21E-04	1.7E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	95-50-1	1,2-Dichlorobenzene	1.78E-05	2.6E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	95-63-6	1,2,4-Trimethylbenzene	3.11E-04	4.5E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	98-82-8	1-METHYLETHYLBENZENE	9.04E-04	1.3E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	10042-59-8	2-PROPYL-1-HEPTANOL	2.16E-03	3.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1031-07-8	Endosulfan sulfate	4.89E-07	7.0E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-42-3	P-XYLENE	4.44E-05	6.4E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-43-4	4-Chlorotoluene	1.37E-04	2.0E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-46-7	1,4-Dichlorobenzene	2.62E-05	3.8E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	106-93-4	1,2-Dibromoethane	6.94E-07	1.0E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	107-06-2	1,2-Dichloroethane	1.14E-03	1.6E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-38-3	M-XYLENE	3.07E-03	4.4E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	108-90-7	Chlorobenzene	7.51E-04	1.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
2_1	11097-69-1	Aroclor 1254	6.94E-04	1.0E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	120-82-1	1,2,4-Trichlorobenzene	1.14E-07	1.6E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	12672-29-6	Aroclor 1248	5.92E-04	8.5E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	12674-11-2	Aroclor 1016	1.82E-04	2.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	127-18-4	Tetrachloroethene	8.88E-07	1.3E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	132-64-9	Dibenzofuran	6.15E-05	8.8E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1653-40-3	6-METHYL-1,1-HEPTANOL	3.41E-03	4.9E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	3.76E-04	5.4E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	9.45E-04	1.4E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.67E-04	6.7E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.87E-04	5.6E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	26952-21-6	ISOOCTANOL	1.25E-03	1.8E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	2719-52-0	(1-METHYLBUTYL)BENZENE	6.94E-04	1.0E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	2883-05-8	2-CYCLOHEXYLDECANE	9.22E-04	1.3E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	33213-65-9	Endosulfan II	1.25E-06	1.8E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.78E-04	6.9E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	3.07E-04	4.4E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	496-10-6	OCTAHYDROINDENE	3.53E-03	5.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	5103-74-2	GAMMA-CHLORDANE	1.94E-06	2.8E-11	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	8.54E-04	1.2E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	53469-21-9	Aroclor 1242	4.78E-04	6.9E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	53494-70-5	Endrin ketone	3.41E-07	4.9E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.55E-03	6.5E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.05E-04	2.9E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	8.76E-04	1.3E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	591-78-6	2-Hexanone	3.87E-07	5.6E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	65-85-0	Benzoic acid	1.82E-05	2.6E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	67-66-3	Chloroform	2.85E-03	4.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	71-55-6	1,1,1-Trichloroethane	1.48E-03	2.1E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-34-3	1,1-Dichloroethane	7.97E-05	1.1E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	75-35-4	1,1-Dichloroethene	4.89E-07	7.0E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	9.79E-04	1.4E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	79-34-5	1,1,2,2-Tetrachloroethane	1.07E-05	1.5E-10	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	87-61-6	1,2,3-Trichlorobenzene	1.48E-07	2.1E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	91-17-8	DECAHYDRONAPHTHALENE	1.71E-03	2.5E-08	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.28E-04	3.3E-09	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	96-12-8	1,2-Dibromo-3-Chloropropane	6.72E-07	9.7E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_1	98-06-6	tert-Butylbenzene	3.07E-07	4.4E-12	7	1.1E+01	1.8E+01	3.3E+01	7.8E+01	1.9E+02	2.7E+02	2.7E+02	1.8E+02	1.0E+02	6.2E+01	4.1E+01	2.9E+01	2.1E+01	1.6E+01	1.2E+01	9.4E+00	4.7E+00	5.0E+00	3.5E+00	9.8E+00	1.5E+01
2_2	100-41-4	Ethylbenzene	2.39E-05	3.4E-10	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	100-42-5	Styrene	2.78E-04	4.0E-09	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	135-98-8	(1-METHYLPROPYL)BENZENE	2.68E-04	3.9E-09	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	67-64-1	2-PROPANONE	9.09E-06	1.3E-10	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	78-93-3	2-Butanone	4.12E-05	5.9E-10	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	85-01-8	Phenanthrene	5.26E-01	7.6E-06	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	91-20-3	Naphthalene	1.63E-03	2.3E-08	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
2_2	95-63-6	1,2,4-Trimethylbenzene	2.39E-05	3.4E-10	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
3	100-41-4	Ethylbenzene	4.30E-02	6.2E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	100-42-5	Styrene	2.70E-02	3.9E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	103-65-1	n-Propylbenzene	5.29E-03	7.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	104-51-8	n-Butylbenzene	9.54E-04	1.4E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	108-67-8	1,3,5-Trimethylbenzene	2.97E-03	4.3E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	108-88-3	Toluene	3.22E-03	4.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	11096-82-5	Aroclor 1260	2.84E-04	4.1E-09	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	120-12-7	Anthracene	2.64E-03	3.8E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	129-00-0	Pyrene	8.38E-04	1.2E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	1330-20-7	XYLENES (TOTAL)	1.63E-02	2.4E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3	135-98-8	(1-METHYLPROPYL)BENZENE	2.34E-02	3.4E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	179601-23-1	m,p-Xylenes	7.32E-03	1.1E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	67-64-1	2-PROPANONE	6.26E-03	9.0E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	71-43-2	Benzene	2.02E-03	2.9E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	7421-93-4	Endrin aldehyde	6.67E-06	9.6E-11	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	7439-98-7	Molybdenum	5.98E-03	8.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	75-09-2	Methylene Chloride	2.74E-03	3.9E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	75-69-4	Trichlorofluoromethane	9.17E-04	1.3E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	78-93-3	2-Butanone	1.78E-03	2.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	83-32-9	Acenaphthene	6.83E-04	9.8E-09	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	85-01-8	Phenanthrene	2.57E-01	3.7E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	86-73-7	Fluorene	4.14E-03	6.0E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	91-20-3	Naphthalene	3.22E-02	4.6E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	91-57-6	2-Methylnaphthalene	1.40E-02	2.0E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	95-47-6	o-Xylene	3.51E-03	5.0E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	95-50-1	1,2-Dichlorobenzene	5.15E-04	7.4E-09	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	95-63-6	1,2,4-Trimethylbenzene	9.03E-03	1.3E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	98-82-8	1-METHYLETHYLBENZENE	2.62E-02	3.8E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	10042-59-8	2-PROPYL-1-HEPTANOL	6.27E-02	9.0E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	1031-07-8	Endosulfan sulfate	1.42E-05	2.0E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	106-42-3	P-XYLENE	1.29E-03	1.9E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	106-43-4	4-Chlorotoluene	3.96E-03	5.7E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	106-46-7	1,4-Dichlorobenzene	7.59E-04	1.1E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	106-93-4	1,2-Dibromoethane	2.01E-05	2.9E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	107-06-2	1,2-Dichloroethane	3.30E-02	4.7E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	108-38-3	M-XYLENE	8.91E-02	1.3E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	108-90-7	Chlorobenzene	2.18E-02	3.1E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	11097-69-1	Aroclor 1254	2.01E-02	2.9E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	120-82-1	1,2,4-Trichlorobenzene	3.30E-06	4.7E-11	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	12672-29-6	Aroclor 1248	1.72E-02	2.5E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	12674-11-2	Aroclor 1016	5.28E-03	7.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	127-18-4	Tetrachloroethene	2.57E-05	3.7E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	132-64-9	Dibenzofuran	1.78E-03	2.6E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	1653-40-3	6-METHYL-1,1-HEPTANOL	9.90E-02	1.4E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.09E-02	1.6E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.74E-02	3.9E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.35E-02	1.9E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.12E-02	1.6E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	26952-21-6	ISOOCTANOL	3.63E-02	5.2E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	2719-52-0	(1-METHYLBUTYL)BENZENE	2.01E-02	2.9E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	2883-05-8	2-CYCLOHEXYLDECANE	2.67E-02	3.8E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	33213-65-9	Endosulfan II	3.63E-05	5.2E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.39E-02	2.0E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	8.91E-03	1.3E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	496-10-6	OCTAHYDROINDENE	1.02E-01	1.5E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	5103-74-2	GAMMA-CHLORDANE	5.61E-05	8.1E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.48E-02	3.6E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	53469-21-9	Aroclor 1242	1.39E-02	2.0E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	53494-70-5	Endrin ketone	9.90E-06	1.4E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.32E-01	1.9E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	5.94E-03	8.5E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.54E-02	3.7E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	591-78-6	2-Hexanone	1.12E-05	1.6E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	65-85-0	Benzoic acid	5.28E-04	7.6E-09	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	67-66-3	Chloroform	8.25E-02	1.2E-06	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	71-55-6	1,1,1-Trichloroethane	4.29E-02	6.2E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3	75-34-3	1,1-Dichloroethane	2.31E-03	3.3E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	75-35-4	1,1-Dichloroethene	1.42E-05	2.0E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.84E-02	4.1E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	79-34-5	1,1,2,2-Tetrachloroethane	3.10E-04	4.5E-09	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	87-61-6	1,2,3-Trichlorobenzene	4.29E-06	6.2E-11	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	91-17-8	DECAHYDRONAPHTHALENE	4.95E-02	7.1E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	941-60-6	1,1,4-6-TETRAMETHYLINDANE	6.60E-03	9.5E-08	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	96-12-8	1,2-Dibromo-3-Chloropropane	1.95E-05	2.8E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
3	98-06-6	tert-Butylbenzene	8.91E-06	1.3E-10	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	100-41-4	Ethylbenzene	3.50E-02	5.0E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	100-42-5	Styrene	2.20E-02	3.2E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	103-65-1	n-Propylbenzene	4.31E-03	6.2E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	104-51-8	n-Butylbenzene	7.76E-04	1.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	108-67-8	1,3,5-Trimethylbenzene	2.41E-03	3.5E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	108-88-3	Toluene	2.62E-03	3.8E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	11096-82-5	Aroclor 1260	2.32E-04	3.3E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	120-12-7	Anthracene	2.15E-03	3.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	129-00-0	Pyrene	6.82E-04	9.8E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	1330-20-7	XYLENES (TOTAL)	1.33E-02	1.9E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	135-98-8	(1-METHYLPROPYL)BENZENE	1.91E-02	2.7E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	179601-23-1	m,p-Xylenes	5.96E-03	8.6E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	67-64-1	2-PROPANONE	5.10E-03	7.3E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	71-43-2	Benzene	1.64E-03	2.4E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	7421-93-4	Endrin aldehyde	5.43E-06	7.8E-11	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	7439-98-7	Molybdenum	4.87E-03	7.0E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	75-09-2	Methylene Chloride	2.23E-03	3.2E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	75-69-4	Trichlorofluoromethane	7.47E-04	1.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	78-93-3	2-Butanone	1.45E-03	2.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	83-32-9	Acenaphthene	5.56E-04	8.0E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	85-01-8	Phenanthrene	2.09E-01	3.0E-06	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	86-73-7	Fluorene	3.37E-03	4.8E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	91-20-3	Naphthalene	2.62E-02	3.8E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	91-57-6	2-Methylnaphthalene	1.14E-02	1.6E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	95-47-6	o-Xylene	2.86E-03	4.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	95-50-1	1,2-Dichlorobenzene	4.19E-04	6.0E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	95-63-6	1,2,4-Trimethylbenzene	7.35E-03	1.1E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	98-82-8	1-METHYLETHYLBENZENE	2.13E-02	3.1E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	10042-59-8	2-PROPYL-1-HEPTANOL	5.10E-02	7.3E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	1031-07-8	Endosulfan sulfate	1.15E-05	1.7E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	106-42-3	P-XYLENE	1.05E-03	1.5E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	106-43-4	4-Chlorotoluene	3.22E-03	4.6E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	106-46-7	1,4-Dichlorobenzene	6.18E-04	8.9E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	106-93-4	1,2-Dibromoethane	1.64E-05	2.4E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	107-06-2	1,2-Dichloroethane	2.69E-02	3.9E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	108-38-3	M-XYLENE	7.25E-02	1.0E-06	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	108-90-7	Chlorobenzene	1.77E-02	2.5E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	11097-69-1	Aroclor 1254	1.64E-02	2.4E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	120-82-1	1,2,4-Trichlorobenzene	2.69E-06	3.9E-11	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	12672-29-6	Aroclor 1248	1.40E-02	2.0E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	12674-11-2	Aroclor 1016	4.30E-03	6.2E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	127-18-4	Tetrachloroethene	2.10E-05	3.0E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	132-64-9	Dibenzofuran	1.45E-03	2.1E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	1653-40-3	6-METHYL-1,1-HEPTANOL	8.06E-02	1.2E-06	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	8.86E-03	1.3E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.23E-02	3.2E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.10E-02	1.6E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4A	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	9.13E-03	1.3E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	26952-21-6	ISOOCTANOL	2.95E-02	4.2E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	2719-52-0	(1-METHYLBUTYL)BENZENE	1.64E-02	2.4E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	2883-05-8	2-CYCLOHEXYLDECANE	2.18E-02	3.1E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	33213-65-9	Endosulfan II	2.95E-05	4.2E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.13E-02	1.6E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	7.25E-03	1.0E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	496-10-6	OCTAHYDROINDENE	8.33E-02	1.2E-06	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	5103-74-2	GAMMA-CHLORDANE	4.57E-05	6.6E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.01E-02	2.9E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	53469-21-9	Aroclor 1242	1.13E-02	1.6E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	53494-70-5	Endrin ketone	8.06E-06	1.2E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.07E-01	1.5E-06	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	4.83E-03	7.0E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.07E-02	3.0E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	591-78-6	2-Hexanone	9.13E-06	1.3E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	65-85-0	Benzoic acid	4.30E-04	6.2E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	67-66-3	Chloroform	6.71E-02	9.7E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	71-55-6	1,1,1-Trichloroethane	3.49E-02	5.0E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	75-34-3	1,1-Dichloroethane	1.88E-03	2.7E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	75-35-4	1,1-Dichloroethene	1.15E-05	1.7E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.31E-02	3.3E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	79-34-5	1,1,2,2-Tetrachloroethane	2.52E-04	3.6E-09	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	87-61-6	1,2,3-Trichlorobenzene	3.49E-06	5.0E-11	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	91-17-8	DECAHYDRONAPHTHALENE	4.03E-02	5.8E-07	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	941-60-6	1,1,4-6-TETRAMETHYLINDANE	5.37E-03	7.7E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	96-12-8	1,2-Dibromo-3-Chloropropane	1.58E-05	2.3E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4A	98-06-6	tert-Butylbenzene	7.25E-06	1.0E-10	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	100-41-4	Ethylbenzene	5.86E-02	8.4E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	100-42-5	Styrene	3.68E-02	5.3E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	103-65-1	n-Propylbenzene	7.22E-03	1.0E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	104-51-8	n-Butylbenzene	1.30E-03	1.9E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	108-67-8	1,3,5-Trimethylbenzene	4.04E-03	5.8E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	108-88-3	Toluene	4.39E-03	6.3E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	11096-82-5	Aroclor 1260	3.88E-04	5.6E-09	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	120-12-7	Anthracene	3.60E-03	5.2E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	129-00-0	Pyrene	1.14E-03	1.6E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	1330-20-7	XYLENES (TOTAL)	2.23E-02	3.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	135-98-8	(1-METHYLPROPYL)BENZENE	3.20E-02	4.6E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	179601-23-1	m,p-Xylenes	9.98E-03	1.4E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	67-64-1	2-PROPANONE	8.54E-03	1.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	71-43-2	Benzene	2.75E-03	4.0E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	7421-93-4	Endrin aldehyde	9.09E-06	1.3E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	7439-98-7	Molybdenum	8.16E-03	1.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	75-09-2	Methylene Chloride	3.73E-03	5.4E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	75-69-4	Trichlorofluoromethane	1.25E-03	1.8E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	78-93-3	2-Butanone	2.42E-03	3.5E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	83-32-9	Acenaphthene	9.31E-04	1.3E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	85-01-8	Phenanthrene	3.51E-01	5.0E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	86-73-7	Fluorene	5.65E-03	8.1E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	91-20-3	Naphthalene	4.39E-02	6.3E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	91-57-6	2-Methylnaphthalene	1.91E-02	2.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	95-47-6	o-Xylene	4.78E-03	6.9E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	95-50-1	1,2-Dichlorobenzene	7.02E-04	1.0E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	95-63-6	1,2,4-Trimethylbenzene	1.23E-02	1.8E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	98-82-8	1-METHYLETHYLBENZENE	3.57E-02	5.1E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4B	10042-59-8	2-PROPYL-1-HEPTANOL	8.55E-02	1.2E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	1031-07-8	Endosulfan sulfate	1.93E-05	2.8E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	106-42-3	P-XYLENE	1.75E-03	2.5E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	106-43-4	4-Chlorotoluene	5.40E-03	7.8E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	106-46-7	1,4-Dichlorobenzene	1.03E-03	1.5E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	106-93-4	1,2-Dibromoethane	2.74E-05	3.9E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	107-06-2	1,2-Dichloroethane	4.50E-02	6.5E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	108-38-3	M-XYLENE	1.21E-01	1.7E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	108-90-7	Chlorobenzene	2.97E-02	4.3E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	11097-69-1	Aroclor 1254	2.74E-02	3.9E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	120-82-1	1,2,4-Trichlorobenzene	4.50E-06	6.5E-11	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	12672-29-6	Aroclor 1248	2.34E-02	3.4E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	12674-11-2	Aroclor 1016	7.20E-03	1.0E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	127-18-4	Tetrachloroethene	3.51E-05	5.0E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	132-64-9	Dibenzofuran	2.43E-03	3.5E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	1653-40-3	6-METHYL-1,1-HEPTANOL	1.35E-01	1.9E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.48E-02	2.1E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.73E-02	5.4E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.84E-02	2.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.53E-02	2.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	26952-21-6	ISOOCTANOL	4.95E-02	7.1E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	2719-52-0	(1-METHYLBUTYL)BENZENE	2.74E-02	3.9E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	2883-05-8	2-CYCLOHEXYLDECANE	3.64E-02	5.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	33213-65-9	Endosulfan II	4.95E-05	7.1E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.89E-02	2.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.21E-02	1.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	496-10-6	OCTAHYDROINDENE	1.39E-01	2.0E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	5103-74-2	GAMMA-CHLORDANE	7.65E-05	1.1E-09	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	3.37E-02	4.9E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	53469-21-9	Aroclor 1242	1.89E-02	2.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	53494-70-5	Endrin ketone	1.35E-05	1.9E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.80E-01	2.6E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	8.10E-03	1.2E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.46E-02	5.0E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	591-78-6	2-Hexanone	1.53E-05	2.2E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	65-85-0	Benzoic acid	7.20E-04	1.0E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	67-66-3	Chloroform	1.12E-01	1.6E-06	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	71-55-6	1,1,1-Trichloroethane	5.85E-02	8.4E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	75-34-3	1,1-Dichloroethane	3.15E-03	4.5E-08	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	75-35-4	1,1-Dichloroethene	1.93E-05	2.8E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.87E-02	5.6E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	79-34-5	1,1,2,2-Tetrachloroethane	4.23E-04	6.1E-09	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	87-61-6	1,2,3-Trichlorobenzene	5.85E-06	8.4E-11	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	91-17-8	DECAHYDRONAPHTHALENE	6.75E-02	9.7E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	941-60-6	1,1,4-6-TETRAMETHYLINDANE	9.00E-03	1.3E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	96-12-8	1,2-Dibromo-3-Chloropropane	2.65E-05	3.8E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4B	98-06-6	tert-Butylbenzene	1.21E-05	1.7E-10	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	100-41-4	Ethylbenzene	5.71E-02	8.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	100-42-5	Styrene	3.58E-02	5.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	103-65-1	n-Propylbenzene	7.02E-03	1.0E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	104-51-8	n-Butylbenzene	1.27E-03	1.8E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	108-67-8	1,3,5-Trimethylbenzene	3.94E-03	5.7E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	108-88-3	Toluene	4.27E-03	6.1E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	11096-82-5	Aroclor 1260	3.78E-04	5.4E-09	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	120-12-7	Anthracene	3.50E-03	5.0E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	129-00-0	Pyrene	1.11E-03	1.6E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4C	1330-20-7	XYLENES (TOTAL)	2.17E-02	3.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	135-98-8	(1-METHYLPROPYL)BENZENE	3.11E-02	4.5E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	179601-23-1	m,p-Xylenes	9.72E-03	1.4E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	67-64-1	2-PROPANONE	8.31E-03	1.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	71-43-2	Benzene	2.68E-03	3.9E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	7421-93-4	Endrin aldehyde	8.85E-06	1.3E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	7439-98-7	Molybdenum	7.94E-03	1.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	75-09-2	Methylene Chloride	3.64E-03	5.2E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	75-69-4	Trichlorofluoromethane	1.22E-03	1.8E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	78-93-3	2-Butanone	2.36E-03	3.4E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	83-32-9	Acenaphthene	9.07E-04	1.3E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	85-01-8	Phenanthrene	3.41E-01	4.9E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	86-73-7	Fluorene	5.50E-03	7.9E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	91-20-3	Naphthalene	4.28E-02	6.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	91-57-6	2-Methylnaphthalene	1.86E-02	2.7E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	95-47-6	o-Xylene	4.66E-03	6.7E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	95-50-1	1,2-Dichlorobenzene	6.83E-04	9.8E-09	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	95-63-6	1,2,4-Trimethylbenzene	1.20E-02	1.7E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	98-82-8	1-METHYLETHYLBENZENE	3.48E-02	5.0E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	10042-59-8	2-PROPYL-1-HEPTANOL	8.32E-02	1.2E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	1031-07-8	Endosulfan sulfate	1.88E-05	2.7E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	106-42-3	P-XYLENE	1.71E-03	2.5E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	106-43-4	4-Chlorotoluene	5.26E-03	7.6E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	106-46-7	1,4-Dichlorobenzene	1.01E-03	1.4E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	106-93-4	1,2-Dibromoethane	2.67E-05	3.8E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	107-06-2	1,2-Dichloroethane	4.38E-02	6.3E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	108-38-3	M-XYLENE	1.18E-01	1.7E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	108-90-7	Chlorobenzene	2.89E-02	4.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	11097-69-1	Aroclor 1254	2.67E-02	3.8E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	120-82-1	1,2,4-Trichlorobenzene	4.38E-06	6.3E-11	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	12672-29-6	Aroclor 1248	2.28E-02	3.3E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	12674-11-2	Aroclor 1016	7.01E-03	1.0E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	127-18-4	Tetrachloroethene	3.42E-05	4.9E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	132-64-9	Dibenzofuran	2.36E-03	3.4E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	1653-40-3	6-METHYL-1,1-HEPTANOL	1.31E-01	1.9E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.45E-02	2.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.64E-02	5.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.80E-02	2.6E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.49E-02	2.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	26952-21-6	ISOOCTANOL	4.82E-02	6.9E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	2719-52-0	(1-METHYLBUTYL)BENZENE	2.67E-02	3.8E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	2883-05-8	2-CYCLOHEXYLDECANE	3.55E-02	5.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	33213-65-9	Endosulfan II	4.82E-05	6.9E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.84E-02	2.6E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.18E-02	1.7E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	496-10-6	OCTAHYDROINDENE	1.36E-01	2.0E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	5103-74-2	GAMMA-CHLORDANE	7.45E-05	1.1E-09	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	3.28E-02	4.7E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	53469-21-9	Aroclor 1242	1.84E-02	2.6E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	53494-70-5	Endrin ketone	1.31E-05	1.9E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.75E-01	2.5E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	7.88E-03	1.1E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.37E-02	4.8E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	591-78-6	2-Hexanone	1.49E-05	2.1E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	65-85-0	Benzoic acid	7.01E-04	1.0E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	67-66-3	Chloroform	1.09E-01	1.6E-06	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4C	71-55-6	1,1,1-Trichloroethane	5.69E-02	8.2E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	75-34-3	1,1-Dichloroethane	3.07E-03	4.4E-08	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	75-35-4	1,1-Dichloroethene	1.88E-05	2.7E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.77E-02	5.4E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	79-34-5	1,1,2,2-Tetrachloroethane	4.12E-04	5.9E-09	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	87-61-6	1,2,3-Trichlorobenzene	5.69E-06	8.2E-11	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	91-17-8	DECAHYDRONAPHTHALENE	6.57E-02	9.4E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	941-60-6	1,1,4-6-TETRAMETHYLINDANE	8.76E-03	1.3E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	96-12-8	1,2-Dibromo-3-Chloropropane	2.58E-05	3.7E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4C	98-06-6	tert-Butylbenzene	1.18E-05	1.7E-10	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	100-41-4	Ethylbenzene	1.17E-01	1.7E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	100-42-5	Styrene	7.34E-02	1.1E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	103-65-1	n-Propylbenzene	1.44E-02	2.1E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	104-51-8	n-Butylbenzene	2.59E-03	3.7E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	108-67-8	1,3,5-Trimethylbenzene	8.07E-03	1.2E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	108-88-3	Toluene	8.76E-03	1.3E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	11096-82-5	Aroclor 1260	7.74E-04	1.1E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	120-12-7	Anthracene	7.18E-03	1.0E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	129-00-0	Pyrene	2.28E-03	3.3E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	1330-20-7	XYLENES (TOTAL)	4.45E-02	6.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	135-98-8	(1-METHYLPROPYL)BENZENE	6.38E-02	9.2E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	179601-23-1	m,p-Xylenes	1.99E-02	2.9E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	67-64-1	2-PROPANONE	1.70E-02	2.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	71-43-2	Benzene	5.49E-03	7.9E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	7421-93-4	Endrin aldehyde	1.81E-05	2.6E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	7439-98-7	Molybdenum	1.63E-02	2.3E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	75-09-2	Methylene Chloride	7.45E-03	1.1E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	75-69-4	Trichlorofluoromethane	2.50E-03	3.6E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	78-93-3	2-Butanone	4.83E-03	6.9E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	83-32-9	Acenaphthene	1.86E-03	2.7E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	85-01-8	Phenanthrene	7.00E-01	1.0E-05	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	86-73-7	Fluorene	1.13E-02	1.6E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	91-20-3	Naphthalene	8.77E-02	1.3E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	91-57-6	2-Methylnaphthalene	3.80E-02	5.5E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	95-47-6	o-Xylene	9.54E-03	1.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	95-50-1	1,2-Dichlorobenzene	1.40E-03	2.0E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	95-63-6	1,2,4-Trimethylbenzene	2.46E-02	3.5E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	98-82-8	1-METHYLETHYLBENZENE	7.13E-02	1.0E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	10042-59-8	2-PROPYL-1-HEPTANOL	1.71E-01	2.5E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	1031-07-8	Endosulfan sulfate	3.86E-05	5.6E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	106-42-3	P-XYLENE	3.50E-03	5.0E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	106-43-4	4-Chlorotoluene	1.08E-02	1.5E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	106-46-7	1,4-Dichlorobenzene	2.06E-03	3.0E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	106-93-4	1,2-Dibromoethane	5.48E-05	7.9E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	107-06-2	1,2-Dichloroethane	8.98E-02	1.3E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	108-38-3	M-XYLENE	2.42E-01	3.5E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	108-90-7	Chlorobenzene	5.93E-02	8.5E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	11097-69-1	Aroclor 1254	5.48E-02	7.9E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	120-82-1	1,2,4-Trichlorobenzene	8.98E-06	1.3E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	12672-29-6	Aroclor 1248	4.67E-02	6.7E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	12674-11-2	Aroclor 1016	1.44E-02	2.1E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	127-18-4	Tetrachloroethene	7.00E-05	1.0E-09	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	132-64-9	Dibenzofuran	4.85E-03	7.0E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	1653-40-3	6-METHYL-1,1-HEPTANOL	2.69E-01	3.9E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	2.96E-02	4.3E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	7.45E-02	1.1E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4D	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	3.68E-02	5.3E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.05E-02	4.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	26952-21-6	ISOOCTANOL	9.88E-02	1.4E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	2719-52-0	(1-METHYLBUTYL)BENZENE	5.48E-02	7.9E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	2883-05-8	2-CYCLOHEXYLDECANE	7.27E-02	1.0E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	33213-65-9	Endosulfan II	9.88E-05	1.4E-09	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	3875-51-2	1-METHYLETHYLCYCLOPENTANE	3.77E-02	5.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.42E-02	3.5E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	496-10-6	OCTAHYDROINDENE	2.78E-01	4.0E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	5103-74-2	GAMMA-CHLORDANE	1.53E-04	2.2E-09	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	6.73E-02	9.7E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	53469-21-9	Aroclor 1242	3.77E-02	5.4E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	53494-70-5	Endrin ketone	2.69E-05	3.9E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	5364-83-0	(1-PROPENYL)CYCLOHEXANE	3.59E-01	5.2E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.62E-02	2.3E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	6.91E-02	9.9E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	591-78-6	2-Hexanone	3.05E-05	4.4E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	65-85-0	Benzoic acid	1.44E-03	2.1E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	67-66-3	Chloroform	2.24E-01	3.2E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	71-55-6	1,1,1-Trichloroethane	1.17E-01	1.7E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	75-34-3	1,1-Dichloroethane	6.28E-03	9.0E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	75-35-4	1,1-Dichloroethene	3.86E-05	5.6E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	7.72E-02	1.1E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	79-34-5	1,1,2,2-Tetrachloroethane	8.44E-04	1.2E-08	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	87-61-6	1,2,3-Trichlorobenzene	1.17E-05	1.7E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	91-17-8	DECAHYDRONAPHTHALENE	1.35E-01	1.9E-06	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.80E-02	2.6E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	96-12-8	1,2-Dibromo-3-Chloropropane	5.30E-05	7.6E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
4D	98-06-6	tert-Butylbenzene	2.42E-05	3.5E-10	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	100-41-4	Ethylbenzene	3.53E-03	5.1E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	100-42-5	Styrene	2.22E-03	3.2E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	103-65-1	n-Propylbenzene	4.35E-04	6.3E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	104-51-8	n-Butylbenzene	7.84E-05	1.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	108-67-8	1,3,5-Trimethylbenzene	2.44E-04	3.5E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	108-88-3	Toluene	2.65E-04	3.8E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	11096-82-5	Aroclor 1260	2.34E-05	3.4E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	120-12-7	Anthracene	2.17E-04	3.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	129-00-0	Pyrene	6.89E-05	9.9E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	1330-20-7	XYLENES (TOTAL)	1.34E-03	1.9E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	135-98-8	(1-METHYLPROPYL)BENZENE	1.93E-03	2.8E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	179601-23-1	m,p-Xylenes	6.02E-04	8.7E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	67-64-1	2-PROPANONE	5.14E-04	7.4E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	71-43-2	Benzene	1.66E-04	2.4E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	7421-93-4	Endrin aldehyde	5.48E-07	7.9E-12	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	7439-98-7	Molybdenum	4.92E-04	7.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	75-09-2	Methylene Chloride	2.25E-04	3.2E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	75-69-4	Trichlorofluoromethane	7.54E-05	1.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	78-93-3	2-Butanone	1.46E-04	2.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	83-32-9	Acenaphthene	5.61E-05	8.1E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	85-01-8	Phenanthrene	2.11E-02	3.0E-07	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	86-73-7	Fluorene	3.40E-04	4.9E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	91-20-3	Naphthalene	2.65E-03	3.8E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	91-57-6	2-Methylnaphthalene	1.15E-03	1.7E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	95-47-6	o-Xylene	2.88E-04	4.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	95-50-1	1,2-Dichlorobenzene	4.23E-05	6.1E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	95-63-6	1,2,4-Trimethylbenzene	7.42E-04	1.1E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
7	98-82-8	1-METHYLETHYLBENZENE	2.15E-03	3.1E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	10042-59-8	2-PROPYL-1-HEPTANOL	5.15E-03	7.4E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	1031-07-8	Endosulfan sulfate	1.17E-06	1.7E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	106-42-3	P-XYLENE	1.06E-04	1.5E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	106-43-4	4-Chlorotoluene	3.25E-04	4.7E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	106-46-7	1,4-Dichlorobenzene	6.24E-05	9.0E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	106-93-4	1,2-Dibromoethane	1.65E-06	2.4E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	107-06-2	1,2-Dichloroethane	2.71E-03	3.9E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	108-38-3	M-XYLENE	7.32E-03	1.1E-07	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	108-90-7	Chlorobenzene	1.79E-03	2.6E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	11097-69-1	Aroclor 1254	1.65E-03	2.4E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	120-82-1	1,2,4-Trichlorobenzene	2.71E-07	3.9E-12	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	12672-29-6	Aroclor 1248	1.41E-03	2.0E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	12674-11-2	Aroclor 1016	4.34E-04	6.2E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	127-18-4	Tetrachloroethene	2.11E-06	3.0E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	132-64-9	Dibenzofuran	1.46E-04	2.1E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	1653-40-3	6-METHYL-1,1-HEPTANOL	8.13E-03	1.2E-07	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	8.95E-04	1.3E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.25E-03	3.2E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.11E-03	1.6E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	9.22E-04	1.3E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	26952-21-6	ISOOCTANOL	2.98E-03	4.3E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	2719-52-0	(1-METHYLBUTYL)BENZENE	1.65E-03	2.4E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	2883-05-8	2-CYCLOHEXYLDECANE	2.20E-03	3.2E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	33213-65-9	Endosulfan II	2.98E-06	4.3E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.14E-03	1.6E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	7.32E-04	1.1E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	496-10-6	OCTAHYDROINDENE	8.41E-03	1.2E-07	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	5103-74-2	GAMMA-CHLORDANE	4.61E-06	6.6E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.03E-03	2.9E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	53469-21-9	Aroclor 1242	1.14E-03	1.6E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	53494-70-5	Endrin ketone	8.13E-07	1.2E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.08E-02	1.6E-07	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	4.88E-04	7.0E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.09E-03	3.0E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	591-78-6	2-Hexanone	9.22E-07	1.3E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	65-85-0	Benzoic acid	4.34E-05	6.2E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	67-66-3	Chloroform	6.78E-03	9.7E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	71-55-6	1,1,1-Trichloroethane	3.52E-03	5.1E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	75-34-3	1,1-Dichloroethane	1.90E-04	2.7E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	75-35-4	1,1-Dichloroethene	1.17E-06	1.7E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.33E-03	3.4E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	79-34-5	1,1,2,2-Tetrachloroethane	2.55E-05	3.7E-10	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	87-61-6	1,2,3-Trichlorobenzene	3.52E-07	5.1E-12	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	91-17-8	DECAHYDRONAPHTHALENE	4.07E-03	5.8E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	941-60-6	1,1,4-6-TETRAMETHYLINDANE	5.42E-04	7.8E-09	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	96-12-8	1,2-Dibromo-3-Chloropropane	1.60E-06	2.3E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
7	98-06-6	tert-Butylbenzene	7.32E-07	1.1E-11	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	100-41-4	Ethylbenzene	5.13E-02	7.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	100-42-5	Styrene	3.22E-02	4.6E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	103-65-1	n-Propylbenzene	6.31E-03	9.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	104-51-8	n-Butylbenzene	1.14E-03	1.6E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-67-8	1,3,5-Trimethylbenzene	3.54E-03	5.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-88-3	Toluene	3.84E-03	5.5E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	11096-82-5	Aroclor 1260	3.39E-04	4.9E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	120-12-7	Anthracene	3.15E-03	4.5E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	129-00-0	Pyrene	9.99E-04	1.4E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1330-20-7	XYLENES (TOTAL)	1.95E-02	2.8E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	135-98-8	(1-METHYLPROPYL)BENZENE	2.79E-02	4.0E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	179601-23-1	m,p-Xylenes	8.73E-03	1.3E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	67-64-1	2-PROPANONE	7.46E-03	1.1E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	71-43-2	Benzene	2.41E-03	3.5E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	7421-93-4	Endrin aldehyde	7.95E-06	1.1E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	7439-98-7	Molybdenum	7.13E-03	1.0E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-09-2	Methylene Chloride	3.27E-03	4.7E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-69-4	Trichlorofluoromethane	1.09E-03	1.6E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	78-93-3	2-Butanone	2.12E-03	3.0E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	83-32-9	Acenaphthene	8.14E-04	1.2E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	85-01-8	Phenanthrene	3.07E-01	4.4E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	86-73-7	Fluorene	4.94E-03	7.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	91-20-3	Naphthalene	3.84E-02	5.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	91-57-6	2-Methylnaphthalene	1.67E-02	2.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-47-6	o-Xylene	4.18E-03	6.0E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-50-1	1,2-Dichlorobenzene	6.14E-04	8.8E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	95-63-6	1,2,4-Trimethylbenzene	1.08E-02	1.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	98-82-8	1-METHYLETHYLBENZENE	3.12E-02	4.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	10042-59-8	2-PROPYL-1-HEPTANOL	7.47E-02	1.1E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1031-07-8	Endosulfan sulfate	1.69E-05	2.4E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-42-3	P-XYLENE	1.53E-03	2.2E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-43-4	4-Chlorotoluene	4.72E-03	6.8E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-46-7	1,4-Dichlorobenzene	9.05E-04	1.3E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	106-93-4	1,2-Dibromoethane	2.40E-05	3.5E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	107-06-2	1,2-Dichloroethane	3.93E-02	5.7E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-38-3	M-XYLENE	1.06E-01	1.5E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	108-90-7	Chlorobenzene	2.60E-02	3.7E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	11097-69-1	Aroclor 1254	2.40E-02	3.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	120-82-1	1,2,4-Trichlorobenzene	3.93E-06	5.7E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	12672-29-6	Aroclor 1248	2.05E-02	2.9E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	12674-11-2	Aroclor 1016	6.29E-03	9.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	127-18-4	Tetrachloroethene	3.07E-05	4.4E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	132-64-9	Dibenzofuran	2.12E-03	3.1E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1653-40-3	6-METHYL-1,1-HEPTANOL	1.18E-01	1.7E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.30E-02	1.9E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.27E-02	4.7E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.61E-02	2.3E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.34E-02	1.9E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	26952-21-6	ISOOCTANOL	4.33E-02	6.2E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	2719-52-0	(1-METHYLBUTYL)BENZENE	2.40E-02	3.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	2883-05-8	2-CYCLOHEXYLDECANE	3.19E-02	4.6E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	33213-65-9	Endosulfan II	4.33E-05	6.2E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.65E-02	2.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.06E-02	1.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	496-10-6	OCTAHYDROINDENE	1.22E-01	1.8E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	5103-74-2	GAMMA-CHLORDANE	6.69E-05	9.6E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.95E-02	4.2E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	53469-21-9	Aroclor 1242	1.65E-02	2.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	53494-70-5	Endrin ketone	1.18E-05	1.7E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.57E-01	2.3E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	7.08E-03	1.0E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.03E-02	4.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	591-78-6	2-Hexanone	1.34E-05	1.9E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	65-85-0	Benzoic acid	6.29E-04	9.1E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	67-66-3	Chloroform	9.84E-02	1.4E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	71-55-6	1,1,1-Trichloroethane	5.11E-02	7.4E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-34-3	1,1-Dichloroethane	2.75E-03	4.0E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	75-35-4	1,1-Dichloroethene	1.69E-05	2.4E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.38E-02	4.9E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	79-34-5	1,1,2,2-Tetrachloroethane	3.70E-04	5.3E-09	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	87-61-6	1,2,3-Trichlorobenzene	5.11E-06	7.4E-11	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	91-17-8	DECAHYDRONAPHTHALENE	5.90E-02	8.5E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	941-60-6	1,1,4-6-TETRAMETHYLINDANE	7.87E-03	1.1E-07	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	96-12-8	1,2-Dibromo-3-Chloropropane	2.32E-05	3.3E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_N	98-06-6	tert-Butylbenzene	1.06E-05	1.5E-10	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
HAUL_S	100-41-4	Ethylbenzene	1.15E-01	1.7E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	100-42-5	Styrene	7.23E-02	1.0E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	103-65-1	n-Propylbenzene	1.42E-02	2.0E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	104-51-8	n-Butylbenzene	2.56E-03	3.7E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-67-8	1,3,5-Trimethylbenzene	7.95E-03	1.1E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-88-3	Toluene	8.63E-03	1.2E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	11096-82-5	Aroclor 1260	7.63E-04	1.1E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	120-12-7	Anthracene	7.08E-03	1.0E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	129-00-0	Pyrene	2.25E-03	3.2E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	1330-20-7	XYLENES (TOTAL)	4.38E-02	6.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	135-98-8	(1-METHYLPROPYL)BENZENE	6.28E-02	9.0E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	179601-23-1	m,p-Xylenes	1.96E-02	2.8E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	67-64-1	2-PROPANONE	1.68E-02	2.4E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	71-43-2	Benzene	5.41E-03	7.8E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	7421-93-4	Endrin aldehyde	1.79E-05	2.6E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	7439-98-7	Molybdenum	1.60E-02	2.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-09-2	Methylene Chloride	7.34E-03	1.1E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-69-4	Trichlorofluoromethane	2.46E-03	3.5E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	78-93-3	2-Butanone	4.76E-03	6.8E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	83-32-9	Acenaphthene	1.83E-03	2.6E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	85-01-8	Phenanthrene	6.89E-01	9.9E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	86-73-7	Fluorene	1.11E-02	1.6E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	91-20-3	Naphthalene	8.64E-02	1.2E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	91-57-6	2-Methylnaphthalene	3.75E-02	5.4E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-47-6	o-Xylene	9.40E-03	1.4E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-50-1	1,2-Dichlorobenzene	1.38E-03	2.0E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	95-63-6	1,2,4-Trimethylbenzene	2.42E-02	3.5E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	98-82-8	1-METHYLETHYLBENZENE	7.02E-02	1.0E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	10042-59-8	2-PROPYL-1-HEPTANOL	1.68E-01	2.4E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	1031-07-8	Endosulfan sulfate	3.80E-05	5.5E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-42-3	P-XYLENE	3.45E-03	5.0E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-43-4	4-Chlorotoluene	1.06E-02	1.5E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-46-7	1,4-Dichlorobenzene	2.03E-03	2.9E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	106-93-4	1,2-Dibromoethane	5.40E-05	7.8E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	107-06-2	1,2-Dichloroethane	8.85E-02	1.3E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-38-3	M-XYLENE	2.39E-01	3.4E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	108-90-7	Chlorobenzene	5.84E-02	8.4E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	11097-69-1	Aroclor 1254	5.40E-02	7.8E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	120-82-1	1,2,4-Trichlorobenzene	8.85E-06	1.3E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	12672-29-6	Aroclor 1248	4.60E-02	6.6E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	12674-11-2	Aroclor 1016	1.42E-02	2.0E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	127-18-4	Tetrachloroethene	6.90E-05	9.9E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	132-64-9	Dibenzofuran	4.78E-03	6.9E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	1653-40-3	6-METHYL-1,1-HEPTANOL	2.65E-01	3.8E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	2.92E-02	4.2E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_S	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	7.34E-02	1.1E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	3.63E-02	5.2E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.01E-02	4.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	26952-21-6	ISOOCTANOL	9.73E-02	1.4E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	2719-52-0	(1-METHYLBUTYL)BENZENE	5.40E-02	7.8E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	2883-05-8	2-CYCLOHEXYLDECANE	7.17E-02	1.0E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	33213-65-9	Endosulfan II	9.73E-05	1.4E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	3875-51-2	1-METHYLETHYLCYCLOPENTANE	3.72E-02	5.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.39E-02	3.4E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	496-10-6	OCTAHYDROINDENE	2.74E-01	3.9E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	5103-74-2	GAMMA-CHLORDANE	1.50E-04	2.2E-09	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	6.63E-02	9.5E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	53469-21-9	Aroclor 1242	3.72E-02	5.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	53494-70-5	Endrin ketone	2.65E-05	3.8E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	5364-83-0	(1-PROPENYL)CYCLOHEXANE	3.54E-01	5.1E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.59E-02	2.3E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	6.81E-02	9.8E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	591-78-6	2-Hexanone	3.01E-05	4.3E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	65-85-0	Benzoic acid	1.42E-03	2.0E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	67-66-3	Chloroform	2.21E-01	3.2E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	71-55-6	1,1,1-Trichloroethane	1.15E-01	1.7E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-34-3	1,1-Dichloroethane	6.19E-03	8.9E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	75-35-4	1,1-Dichloroethene	3.80E-05	5.5E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	7.61E-02	1.1E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	79-34-5	1,1,2,2-Tetrachloroethane	8.32E-04	1.2E-08	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	87-61-6	1,2,3-Trichlorobenzene	1.15E-05	1.7E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	91-17-8	DECAHYDRONAPHTHALENE	1.33E-01	1.9E-06	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.77E-02	2.5E-07	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	96-12-8	1,2-Dibromo-3-Chloropropane	5.22E-05	7.5E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
HAUL_S	98-06-6	tert-Butylbenzene	2.39E-05	3.4E-10	5	1.2E+01	2.6E+01	6.9E+01	6.0E+01	3.8E+01	2.5E+01	1.8E+01	1.4E+01	1.1E+01	9.2E+00	8.1E+00	7.3E+00	6.7E+00	6.2E+00	5.8E+00	5.5E+00	4.0E+00	3.6E+00	3.5E+00	4.6E+00	5.2E+00
STKP_L_N	100-41-4	Ethylbenzene	1.36E-04	2.0E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	100-42-5	Styrene	8.52E-05	1.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	103-65-1	n-Propylbenzene	1.67E-05	2.4E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	104-51-8	n-Butylbenzene	3.01E-06	4.3E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-67-8	1,3,5-Trimethylbenzene	9.37E-06	1.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-88-3	Toluene	1.02E-05	1.5E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	11096-82-5	Aroclor 1260	8.98E-07	1.3E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	120-12-7	Anthracene	8.34E-06	1.2E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	129-00-0	Pyrene	2.65E-06	3.8E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1330-20-7	XYLENES (TOTAL)	5.16E-05	7.4E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	135-98-8	(1-METHYLPROPYL)BENZENE	7.40E-05	1.1E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	179601-23-1	m,p-Xylenes	2.31E-05	3.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	67-64-1	2-PROPANONE	1.98E-05	2.8E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	71-43-2	Benzene	6.38E-06	9.2E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	7421-93-4	Endrin aldehyde	2.10E-08	3.0E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	7439-98-7	Molybdenum	1.89E-05	2.7E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-09-2	Methylene Chloride	8.65E-06	1.2E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-69-4	Trichlorofluoromethane	2.90E-06	4.2E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	78-93-3	2-Butanone	5.61E-06	8.1E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	83-32-9	Acenaphthene	2.16E-06	3.1E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	85-01-8	Phenanthrene	8.12E-04	1.2E-08	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	86-73-7	Fluorene	1.31E-05	1.9E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	91-20-3	Naphthalene	1.02E-04	1.5E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	91-57-6	2-Methylnaphthalene	4.41E-05	6.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	95-47-6	o-Xylene	1.11E-05	1.6E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	95-50-1	1,2-Dichlorobenzene	1.63E-06	2.3E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_N	95-63-6	1,2,4-Trimethylbenzene	2.85E-05	4.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	98-82-8	1-METHYLETHYLBENZENE	8.27E-05	1.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	10042-59-8	2-PROPYL-1-HEPTANOL	1.98E-04	2.8E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1031-07-8	Endosulfan sulfate	4.48E-08	6.4E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-42-3	P-XYLENE	4.06E-06	5.8E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-43-4	4-Chlorotoluene	1.25E-05	1.8E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-46-7	1,4-Dichlorobenzene	2.40E-06	3.4E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	106-93-4	1,2-Dibromoethane	6.36E-08	9.1E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	107-06-2	1,2-Dichloroethane	1.04E-04	1.5E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-38-3	M-XYLENE	2.81E-04	4.0E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	108-90-7	Chlorobenzene	6.88E-05	9.9E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	11097-69-1	Aroclor 1254	6.36E-05	9.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	120-82-1	1,2,4-Trichlorobenzene	1.04E-08	1.5E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	12672-29-6	Aroclor 1248	5.42E-05	7.8E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	12674-11-2	Aroclor 1016	1.67E-05	2.4E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	127-18-4	Tetrachloroethene	8.13E-08	1.2E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	132-64-9	Dibenzofuran	5.63E-06	8.1E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1653-40-3	6-METHYL-1,1-HEPTANOL	3.13E-04	4.5E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	3.44E-05	4.9E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	8.65E-05	1.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.27E-05	6.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.54E-05	5.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	26952-21-6	ISOOCTANOL	1.15E-04	1.6E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	2719-52-0	(1-METHYLBUTYL)BENZENE	6.36E-05	9.1E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	2883-05-8	2-CYCLOHEXYLDECANE	8.44E-05	1.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	33213-65-9	Endosulfan II	1.15E-07	1.6E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.38E-05	6.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.81E-05	4.0E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	496-10-6	OCTAHYDROINDENE	3.23E-04	4.6E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	5103-74-2	GAMMA-CHLORDANE	1.77E-07	2.5E-12	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	7.81E-05	1.1E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	53469-21-9	Aroclor 1242	4.38E-05	6.3E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	53494-70-5	Endrin ketone	3.13E-08	4.5E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.17E-04	6.0E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.88E-05	2.7E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	8.02E-05	1.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	591-78-6	2-Hexanone	3.54E-08	5.1E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	65-85-0	Benzoic acid	1.67E-06	2.4E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	67-66-3	Chloroform	2.60E-04	3.7E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	71-55-6	1,1,1-Trichloroethane	1.35E-04	1.9E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-34-3	1,1-Dichloroethane	7.29E-06	1.0E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	75-35-4	1,1-Dichloroethene	4.48E-08	6.4E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	8.96E-05	1.3E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	79-34-5	1,1,2,2-Tetrachloroethane	9.79E-07	1.4E-11	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	87-61-6	1,2,3-Trichlorobenzene	1.35E-08	1.9E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	91-17-8	DECAHYDRONAPHTHALENE	1.56E-04	2.2E-09	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.08E-05	3.0E-10	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	96-12-8	1,2-Dibromo-3-Chloropropane	6.15E-08	8.8E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_N	98-06-6	tert-Butylbenzene	2.81E-08	4.0E-13	4	3.7E+00	4.4E+00	5.2E+00	6.4E+00	8.7E+00	1.3E+01	1.9E+01	2.5E+01	3.2E+01	3.7E+01	3.8E+01	3.6E+01	3.1E+01	2.5E+01	2.1E+01	1.7E+01	7.7E+00	6.9E+00	5.8E+00	1.2E+01	1.6E+01
STKP_L_S	100-41-4	Ethylbenzene	2.37E-04	3.4E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	100-42-5	Styrene	1.49E-04	2.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	103-65-1	n-Propylbenzene	2.92E-05	4.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	104-51-8	n-Butylbenzene	5.26E-06	7.6E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-67-8	1,3,5-Trimethylbenzene	1.64E-05	2.4E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-88-3	Toluene	1.78E-05	2.6E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	11096-82-5	Aroclor 1260	1.57E-06	2.3E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	120-12-7	Anthracene	1.46E-05	2.1E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	129-00-0	Pyrene	4.62E-06	6.6E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1330-20-7	XYLENES (TOTAL)	9.01E-05	1.3E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	135-98-8	(1-METHYLPROPYL)BENZENE	1.29E-04	1.9E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	179601-23-1	m,p-Xylenes	4.04E-05	5.8E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	67-64-1	2-PROPANONE	3.45E-05	5.0E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	71-43-2	Benzene	1.11E-05	1.6E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	7421-93-4	Endrin aldehyde	3.67E-08	5.3E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	7439-98-7	Molybdenum	3.30E-05	4.7E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-09-2	Methylene Chloride	1.51E-05	2.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-69-4	Trichlorofluoromethane	5.06E-06	7.3E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	78-93-3	2-Butanone	9.79E-06	1.4E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	83-32-9	Acenaphthene	3.77E-06	5.4E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	85-01-8	Phenanthrene	1.42E-03	2.0E-08	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	86-73-7	Fluorene	2.28E-05	3.3E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	91-20-3	Naphthalene	1.78E-04	2.6E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	91-57-6	2-Methylnaphthalene	7.70E-05	1.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-47-6	o-Xylene	1.93E-05	2.8E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-50-1	1,2-Dichlorobenzene	2.84E-06	4.1E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	95-63-6	1,2,4-Trimethylbenzene	4.98E-05	7.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	98-82-8	1-METHYLETHYLBENZENE	1.44E-04	2.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	10042-59-8	2-PROPYL-1-HEPTANOL	3.46E-04	5.0E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1031-07-8	Endosulfan sulfate	7.82E-08	1.1E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-42-3	P-XYLENE	7.09E-06	1.0E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-43-4	4-Chlorotoluene	2.18E-05	3.1E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-46-7	1,4-Dichlorobenzene	4.18E-06	6.0E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	106-93-4	1,2-Dibromoethane	1.11E-07	1.6E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	107-06-2	1,2-Dichloroethane	1.82E-04	2.6E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-38-3	M-XYLENE	4.91E-04	7.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	108-90-7	Chlorobenzene	1.20E-04	1.7E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	11097-69-1	Aroclor 1254	1.11E-04	1.6E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	120-82-1	1,2,4-Trichlorobenzene	1.82E-08	2.6E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	12672-29-6	Aroclor 1248	9.46E-05	1.4E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	12674-11-2	Aroclor 1016	2.91E-05	4.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	127-18-4	Tetrachloroethene	1.42E-07	2.0E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	132-64-9	Dibenzofuran	9.82E-06	1.4E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1653-40-3	6-METHYL-1,1-HEPTANOL	5.46E-04	7.8E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	6.00E-05	8.6E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.51E-04	2.2E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	7.46E-05	1.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.18E-05	8.9E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	26952-21-6	ISOOCTANOL	2.00E-04	2.9E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	2719-52-0	(1-METHYLBUTYL)BENZENE	1.11E-04	1.6E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	2883-05-8	2-CYCLOHEXYLDECANE	1.47E-04	2.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	33213-65-9	Endosulfan II	2.00E-07	2.9E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	3875-51-2	1-METHYLETHYLCYCLOPENTANE	7.64E-05	1.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	4.91E-05	7.1E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	496-10-6	OCTAHYDROINDENE	5.64E-04	8.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	5103-74-2	GAMMA-CHLORDANE	3.09E-07	4.4E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.36E-04	2.0E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	53469-21-9	Aroclor 1242	7.64E-05	1.1E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	53494-70-5	Endrin ketone	5.46E-08	7.8E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	5364-83-0	(1-PROPENYL)CYCLOHEXANE	7.28E-04	1.0E-08	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	3.27E-05	4.7E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.40E-04	2.0E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	591-78-6	2-Hexanone	6.18E-08	8.9E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	65-85-0	Benzoic acid	2.91E-06	4.2E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	67-66-3	Chloroform	4.55E-04	6.5E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	71-55-6	1,1,1-Trichloroethane	2.36E-04	3.4E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-34-3	1,1-Dichloroethane	1.27E-05	1.8E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	75-35-4	1,1-Dichloroethene	7.82E-08	1.1E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.56E-04	2.2E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	79-34-5	1,1,2,2-Tetrachloroethane	1.71E-06	2.5E-11	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	87-61-6	1,2,3-Trichlorobenzene	2.36E-08	3.4E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	91-17-8	DECAHYDRONAPHTHALENE	2.73E-04	3.9E-09	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	941-60-6	1,1,4-6-TETRAMETHYLINDANE	3.64E-05	5.2E-10	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	96-12-8	1,2-Dibromo-3-Chloropropane	1.07E-07	1.5E-12	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
STKP_L_S	98-06-6	tert-Butylbenzene	4.91E-08	7.1E-13	1	1.9E+00	2.3E+00	2.7E+00	3.3E+00	4.0E+00	4.7E+00	5.4E+00	6.1E+00	7.0E+00	7.7E+00	8.4E+00	8.7E+00	8.8E+00	8.6E+00	8.3E+00	7.7E+00	4.8E+00	4.3E+00	3.9E+00	5.7E+00	6.0E+00
3	103-65-1	#N/A	1.09E+01	1.6E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	103-65-1	#N/A	8.23E+00	1.2E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	103-65-1	#N/A	1.45E+01	2.1E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	103-65-1	#N/A	1.38E+01	2.0E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	103-65-1	#N/A	2.87E+01	4.1E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	103-65-1	#N/A	1.19E+00	1.7E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
B_7	103-65-1	#N/A	2.84E-08	4.1E-13	35	1.1E+01	1.6E+01	2.6E+01	4.8E+01	9.2E+01	1.4E+02	1.4E+02	1.1E+02	7.5E+01	5.1E+01	3.6E+01	2.6E+01	2.0E+01	1.5E+01	1.2E+01	9.5E+00	4.7E+00	4.9E+00	3.5E+00	9.2E+00	1.3E+01
HAUL_N	103-65-1	#N/A	2.08E+00	3.0E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	104-51-8	#N/A	1.53E+00	2.2E-05	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	104-51-8	#N/A	1.16E+00	1.7E-05	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	104-51-8	#N/A	2.03E+00	2.9E-05	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	104-51-8	#N/A	1.94E+00	2.8E-05	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	104-51-8	#N/A	4.04E+00	5.8E-05	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	104-51-8	#N/A	1.67E-01	2.4E-06	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	104-51-8	#N/A	2.93E-01	4.2E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
2_2	135-98-8	#N/A	5.85E-01	8.4E-06	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
3	135-98-8	#N/A	7.18E+00	1.0E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	135-98-8	#N/A	5.42E+00	7.8E-05	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	135-98-8	#N/A	9.52E+00	1.4E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	135-98-8	#N/A	9.08E+00	1.3E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	135-98-8	#N/A	1.89E+01	2.7E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	135-98-8	#N/A	7.81E-01	1.1E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
B_7	135-98-8	#N/A	2.03E-10	2.9E-15	35	1.1E+01	1.6E+01	2.6E+01	4.8E+01	9.2E+01	1.4E+02	1.4E+02	1.1E+02	7.5E+01	5.1E+01	3.6E+01	2.6E+01	2.0E+01	1.5E+01	1.2E+01	9.5E+00	4.7E+00	4.9E+00	3.5E+00	9.2E+00	1.3E+01
HAUL_N	135-98-8	#N/A	1.41E+00	2.0E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	1985-57-5	#N/A	1.29E+01	1.9E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	1985-57-5	#N/A	9.73E+00	1.4E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	1985-57-5	#N/A	1.71E+01	2.5E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	1985-57-5	#N/A	1.63E+01	2.3E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	1985-57-5	#N/A	3.39E+01	4.9E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	1985-57-5	#N/A	1.40E+00	2.0E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	1985-57-5	#N/A	2.46E+00	3.5E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	2049-95-8	#N/A	3.96E+01	5.7E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	2049-95-8	#N/A	2.99E+01	4.3E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	2049-95-8	#N/A	5.25E+01	7.6E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	2049-95-8	#N/A	5.01E+01	7.2E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	2049-95-8	#N/A	1.04E+02	1.5E-03	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	2049-95-8	#N/A	4.31E+00	6.2E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	2049-95-8	#N/A	7.56E+00	1.1E-04	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	22975-62-8	#N/A	1.15E+01	1.7E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	22975-62-8	#N/A	8.69E+00	1.2E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	22975-62-8	#N/A	1.53E+01	2.2E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	22975-62-8	#N/A	1.46E+01	2.1E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	22975-62-8	#N/A	3.03E+01	4.4E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	22975-62-8	#N/A	1.25E+00	1.8E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

							Dilution (ug/m3) / (g/s)																			
Source	**CAS**	**Chemical**		**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	22975-62-8		#N/A	2.20E+00	3.2E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	2719-52-0		#N/A	2.61E+01	3.8E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	2719-52-0		#N/A	1.97E+01	2.8E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	2719-52-0		#N/A	3.47E+01	5.0E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	2719-52-0		#N/A	3.31E+01	4.8E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	2719-52-0		#N/A	6.88E+01	9.9E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	2719-52-0		#N/A	2.84E+00	4.1E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	2719-52-0		#N/A	4.99E+00	7.2E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	2958-76-1		#N/A	2.95E+02	4.2E-03	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	2958-76-1		#N/A	2.23E+02	3.2E-03	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	2958-76-1		#N/A	3.91E+02	5.6E-03	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	2958-76-1		#N/A	3.73E+02	5.4E-03	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	2958-76-1		#N/A	7.77E+02	1.1E-02	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	2958-76-1		#N/A	3.21E+01	4.6E-04	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	2958-76-1		#N/A	5.60E+01	8.1E-04	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	3875-51-2		#N/A	1.48E+02	2.1E-03	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	3875-51-2		#N/A	1.12E+02	1.6E-03	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	3875-51-2		#N/A	1.97E+02	2.8E-03	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	3875-51-2		#N/A	1.88E+02	2.7E-03	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	3875-51-2		#N/A	3.91E+02	5.6E-03	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	3875-51-2		#N/A	1.62E+01	2.3E-04	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	3875-51-2		#N/A	2.71E+01	3.9E-04	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	496-10-6		#N/A	7.42E+02	1.1E-02	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	496-10-6		#N/A	5.60E+02	8.1E-03	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	496-10-6		#N/A	9.84E+02	1.4E-02	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	496-10-6		#N/A	9.39E+02	1.3E-02	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	496-10-6		#N/A	1.95E+03	2.8E-02	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	496-10-6		#N/A	8.07E+01	1.2E-03	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	496-10-6		#N/A	1.40E+02	2.0E-03	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	527-53-7		#N/A	3.37E+01	4.8E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	527-53-7		#N/A	2.55E+01	3.7E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	527-53-7		#N/A	4.47E+01	6.4E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	527-53-7		#N/A	4.26E+01	6.1E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	527-53-7		#N/A	8.87E+01	1.3E-03	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	527-53-7		#N/A	3.67E+00	5.3E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	527-53-7		#N/A	6.44E+00	9.3E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	5364-83-0		#N/A	9.87E+02	1.4E-02	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	5364-83-0		#N/A	7.46E+02	1.1E-02	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	5364-83-0		#N/A	1.31E+03	1.9E-02	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	5364-83-0		#N/A	1.25E+03	1.8E-02	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	5364-83-0		#N/A	2.60E+03	3.7E-02	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	5364-83-0		#N/A	1.07E+02	1.5E-03	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	5364-83-0		#N/A	1.87E+02	2.7E-03	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	54340-86-2		#N/A	5.17E+00	7.4E-05	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	54340-86-2		#N/A	3.91E+00	5.6E-05	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	54340-86-2		#N/A	6.86E+00	9.9E-05	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	54340-86-2		#N/A	6.55E+00	9.4E-05	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	54340-86-2		#N/A	1.36E+01	2.0E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	54340-86-2		#N/A	5.63E-01	8.1E-06	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	54340-86-2		#N/A	9.93E-01	1.4E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	5557-93-7		#N/A	1.79E+01	2.6E-04	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	5557-93-7		#N/A	1.35E+01	1.9E-04	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	5557-93-7		#N/A	2.37E+01	3.4E-04	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	5557-93-7		#N/A	2.26E+01	3.3E-04	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	5557-93-7		#N/A	4.71E+01	6.8E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	5557-93-7		#N/A	1.95E+00	2.8E-05	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

Source	CAS	Chemical		lbs/year	g/s	Source No.	Dilution (ug/m3) / (g/s)																			
							587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	5557-93-7		#N/A	3.44E+00	5.0E-05	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
3	591-78-6		#N/A	8.23E-03	1.2E-07	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	591-78-6		#N/A	6.22E-03	8.9E-08	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	591-78-6		#N/A	1.09E-02	1.6E-07	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	591-78-6		#N/A	1.04E-02	1.5E-07	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	591-78-6		#N/A	2.17E-02	3.1E-07	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	591-78-6		#N/A	8.96E-04	1.3E-08	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	591-78-6		#N/A	1.58E-03	2.3E-08	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
2_2	75-15-0		#N/A	8.43E-01	1.2E-05	8	1.9E+00	2.1E+00	2.2E+00	2.3E+00	2.4E+00	3.1E+00	3.7E+00	3.9E+00	3.9E+00	3.8E+00	3.7E+00	3.5E+00	3.3E+00	3.0E+00	2.7E+00	2.4E+00	1.6E+00	1.7E+00	1.3E+00	2.7E+00	3.4E+00
3	941-60-6		#N/A	2.73E+00	3.9E-05	9	2.0E+00	2.4E+00	2.9E+00	3.5E+00	4.3E+00	5.3E+00	6.6E+00	8.2E+00	1.0E+01	1.2E+01	1.6E+01	2.3E+01	3.7E+01	4.6E+01	5.0E+01	4.7E+01	1.5E+01	1.2E+01	1.0E+01	1.8E+01	1.6E+01
4A	941-60-6		#N/A	2.07E+00	3.0E-05	10	1.1E+00	1.3E+00	1.5E+00	1.7E+00	2.0E+00	2.3E+00	2.8E+00	3.5E+00	4.5E+00	6.1E+00	8.8E+00	1.4E+01	2.9E+01	5.5E+01	7.1E+01	7.8E+01	2.3E+01	1.7E+01	1.5E+01	2.2E+01	1.5E+01
4B	941-60-6		#N/A	3.63E+00	5.2E-05	11	4.5E+00	6.7E+00	1.1E+01	2.3E+01	5.2E+01	7.8E+01	9.2E+01	9.7E+01	9.8E+01	9.7E+01	9.7E+01	9.5E+01	8.5E+01	6.0E+01	4.0E+01	2.8E+01	9.6E+00	9.0E+00	6.6E+00	2.0E+01	2.8E+01
4C	941-60-6		#N/A	3.46E+00	5.0E-05	12	3.8E+00	4.7E+00	6.2E+00	8.3E+00	1.1E+01	1.4E+01	1.6E+01	1.7E+01	1.7E+01	1.7E+01	1.7E+01	1.6E+01	1.6E+01	1.5E+01	1.4E+01	1.2E+01	6.7E+00	5.8E+00	5.2E+00	8.6E+00	9.8E+00
4D	941-60-6		#N/A	7.20E+00	1.0E-04	13	1.9E+01	3.3E+01	4.2E+01	4.4E+01	3.4E+01	2.4E+01	1.8E+01	1.4E+01	1.2E+01	1.0E+01	9.0E+00	8.1E+00	7.5E+00	6.9E+00	6.4E+00	5.9E+00	4.0E+00	3.6E+00	3.4E+00	4.9E+00	5.6E+00
7	941-60-6		#N/A	2.98E-01	4.3E-06	17	2.3E+00	2.7E+00	3.1E+00	3.5E+00	3.9E+00	4.5E+00	5.0E+00	5.5E+00	5.9E+00	6.2E+00	6.3E+00	6.2E+00	6.1E+00	5.9E+00	5.5E+00	5.2E+00	3.4E+00	3.1E+00	2.9E+00	4.1E+00	4.4E+00
HAUL_N	941-60-6		#N/A	5.32E-01	7.6E-06	6	3.0E+00	4.1E+00	6.0E+00	9.8E+00	2.1E+01	7.4E+01	8.9E+01	6.0E+01	4.5E+01	3.6E+01	3.1E+01	2.8E+01	2.5E+01	2.2E+01	1.9E+01	1.7E+01	8.9E+00	7.6E+00	6.8E+00	1.2E+01	1.4E+01
Verification Calculations - DO NOT PRINT																											
BENZ_1	92-87-5		#N/A	1.11E-01	1.6E-06	36	1.1E+00	1.2E+00	1.2E+00	1.3E+00	1.4E+00	1.5E+00	1.8E+00	2.1E+00	2.5E+00	3.0E+00	3.6E+00	4.4E+00	5.2E+00	6.1E+00	7.0E+00	8.0E+00	8.4E+00	6.4E+00	7.7E+00	5.2E+00	4.2E+00

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	100-41-4	Ethylbenzene	1.59E-02	2.3E-07	19	1.8E-06	3.2E-06	4.1E-06	4.7E-06	5.2E-06	5.6E-06	5.9E-06	6.1E-06	6.0E-06	6.0E-06	6.0E-06	6.2E-06	6.4E-06	6.4E-06	6.3E-06	6.0E-06	2.2E-06	1.8E-06	1.5E-06	2.7E-06	2.9E-06
1	100-42-5	Styrene	9.96E-03	1.4E-07	19	1.1E-06	2.0E-06	2.6E-06	3.0E-06	3.2E-06	3.5E-06	3.7E-06	3.8E-06	3.8E-06	3.7E-06	3.8E-06	3.9E-06	4.0E-06	4.0E-06	4.0E-06	3.8E-06	1.4E-06	1.1E-06	9.7E-07	1.7E-06	1.8E-06
1	103-65-1	n-Propylbenzene	1.95E-03	2.8E-08	19	2.2E-07	3.9E-07	5.1E-07	5.8E-07	6.4E-07	6.9E-07	7.3E-07	7.5E-07	7.4E-07	7.3E-07	7.4E-07	7.6E-07	7.8E-07	7.9E-07	7.8E-07	7.4E-07	2.7E-07	2.2E-07	1.9E-07	3.3E-07	3.5E-07
1	104-51-8	n-Butylbenzene	3.52E-04	5.1E-09	19	4.0E-08	7.0E-08	9.2E-08	1.0E-07	1.1E-07	1.2E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.4E-07	1.4E-07	1.4E-07	1.4E-07	1.3E-07	4.8E-08	3.9E-08	3.4E-08	6.0E-08	6.3E-08
1	108-67-8	1,3,5-Trimethylbenzene	1.10E-03	1.6E-08	19	1.3E-07	2.2E-07	2.9E-07	3.2E-07	3.6E-07	3.9E-07	4.1E-07	4.2E-07	4.2E-07	4.1E-07	4.1E-07	4.3E-07	4.4E-07	4.4E-07	4.3E-07	4.1E-07	1.5E-07	1.2E-07	1.1E-07	1.9E-07	2.0E-07
1	108-88-3	Toluene	1.19E-03	1.7E-08	19	1.4E-07	2.4E-07	3.1E-07	3.5E-07	3.9E-07	4.2E-07	4.4E-07	4.5E-07	4.5E-07	4.5E-07	4.5E-07	4.6E-07	4.8E-07	4.8E-07	4.7E-07	4.5E-07	1.6E-07	1.3E-07	1.2E-07	2.0E-07	2.1E-07
1	11096-82-5	Aroclor 1260	1.05E-04	1.5E-09	19	1.2E-08	2.1E-08	2.7E-08	3.1E-08	3.4E-08	3.7E-08	3.9E-08	4.0E-08	4.0E-08	3.9E-08	4.0E-08	4.1E-08	4.2E-08	4.3E-08	4.2E-08	4.0E-08	1.4E-08	1.2E-08	1.0E-08	1.8E-08	1.9E-08
1	120-12-7	Anthracene	9.75E-04	1.4E-08	19	1.1E-07	1.9E-07	2.5E-07	2.9E-07	3.2E-07	3.4E-07	3.6E-07	3.7E-07	3.7E-07	3.7E-07	3.7E-07	3.8E-07	3.9E-07	4.0E-07	3.9E-07	3.7E-07	1.3E-07	1.1E-07	9.5E-08	1.7E-07	1.8E-07
1	129-00-0	Pyrene	3.10E-04	4.5E-09	19	3.5E-08	6.2E-08	8.1E-08	9.2E-08	1.0E-07	1.1E-07	1.2E-07	1.2E-07	1.2E-07	1.2E-07	1.2E-07	1.2E-07	1.2E-07	1.3E-07	1.2E-07	1.2E-07	4.3E-08	3.5E-08	3.0E-08	5.3E-08	5.6E-08
1	1330-20-7	XYLENES (TOTAL)	6.04E-03	8.7E-08	19	6.9E-07	1.2E-06	1.6E-06	1.8E-06	2.0E-06	2.1E-06	2.3E-06	2.3E-06	2.3E-06	2.3E-06	2.3E-06	2.4E-06	2.4E-06	2.4E-06	2.4E-06	2.3E-06	8.3E-07	6.8E-07	5.9E-07	1.0E-06	1.1E-06
1	135-98-8	(1-METHYLPROPYL)BENZENE	8.66E-03	1.2E-07	19	9.9E-07	1.7E-06	2.3E-06	2.6E-06	2.8E-06	3.0E-06	3.2E-06	3.3E-06	3.3E-06	3.2E-06	3.3E-06	3.4E-06	3.5E-06	3.5E-06	3.4E-06	3.3E-06	1.2E-06	9.7E-07	8.4E-07	1.5E-06	1.6E-06
1	179601-23-1	m,p-Xylenes	2.70E-03	3.9E-08	19	3.1E-07	5.4E-07	7.0E-07	8.0E-07	8.8E-07	9.5E-07	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.1E-06	1.1E-06	1.1E-06	1.1E-06	1.0E-06	3.7E-07	3.0E-07	2.6E-07	4.6E-07	4.9E-07
1	67-64-1	2-PROPANONE	2.31E-03	3.3E-08	19	2.6E-07	4.6E-07	6.0E-07	6.8E-07	7.5E-07	8.1E-07	8.6E-07	8.8E-07	8.8E-07	8.7E-07	8.7E-07	9.0E-07	9.3E-07	9.4E-07	9.2E-07	8.7E-07	3.2E-07	2.6E-07	2.2E-07	3.9E-07	4.2E-07
1	71-43-2	Benzene	7.46E-04	1.1E-08	19	8.5E-08	1.5E-07	1.9E-07	2.2E-07	2.4E-07	2.6E-07	2.8E-07	2.8E-07	2.8E-07	2.8E-07	2.8E-07	2.9E-07	3.0E-07	3.0E-07	3.0E-07	2.8E-07	1.0E-07	8.3E-08	7.2E-08	1.3E-07	1.3E-07
1	7421-93-4	Endrin aldehyde	2.46E-06	3.5E-11	19	2.8E-10	4.9E-10	6.4E-10	7.3E-10	8.0E-10	8.7E-10	9.2E-10	9.4E-10	9.3E-10	9.2E-10	9.3E-10	9.6E-10	9.9E-10	1.0E-09	9.8E-10	9.3E-10	3.4E-10	2.8E-10	2.4E-10	4.2E-10	4.4E-10
1	7439-98-7	Molybdenum	2.21E-03	3.2E-08	19	2.5E-07	4.4E-07	5.8E-07	6.5E-07	7.2E-07	7.8E-07	8.3E-07	8.4E-07	8.4E-07	8.3E-07	8.4E-07	8.6E-07	8.9E-07	9.0E-07	8.8E-07	8.4E-07	3.0E-07	2.5E-07	2.1E-07	3.7E-07	4.0E-07
1	75-09-2	Methylene Chloride	1.01E-03	1.5E-08	19	1.2E-07	2.0E-07	2.6E-07	3.0E-07	3.3E-07	3.6E-07	3.8E-07	3.9E-07	3.8E-07	3.8E-07	3.8E-07	3.9E-07	4.1E-07	4.1E-07	4.0E-07	3.8E-07	1.4E-07	1.1E-07	9.8E-08	1.7E-07	1.8E-07
1	75-69-4	Trichlorofluoromethane	3.39E-04	4.9E-09	19	3.9E-08	6.8E-08	8.8E-08	1.0E-07	1.1E-07	1.2E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.4E-07	1.4E-07	1.3E-07	1.3E-07	4.7E-08	3.8E-08	3.3E-08	5.8E-08	6.1E-08
1	78-93-3	2-Butanone	6.56E-04	9.4E-09	19	7.5E-08	1.3E-07	1.7E-07	1.9E-07	2.1E-07	2.3E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.6E-07	2.6E-07	2.7E-07	2.6E-07	2.5E-07	9.0E-08	7.3E-08	6.4E-08	1.1E-07	1.2E-07
1	83-32-9	Acenaphthene	2.52E-04	3.6E-09	19	2.9E-08	5.0E-08	6.6E-08	7.5E-08	8.2E-08	8.9E-08	9.4E-08	9.6E-08	9.6E-08	9.5E-08	9.5E-08	9.8E-08	1.0E-07	1.0E-07	1.0E-07	9.5E-08	3.5E-08	2.8E-08	2.4E-08	4.3E-08	4.5E-08
1	85-01-8	Phenanthrene	9.50E-02	1.4E-06	19	1.1E-05	1.9E-05	2.5E-05	2.8E-05	3.1E-05	3.3E-05	3.6E-05	3.6E-05	3.6E-05	3.6E-05	3.6E-05	3.7E-05	3.8E-05	3.9E-05	3.8E-05	3.6E-05	1.3E-05	1.1E-05	9.2E-06	1.6E-05	1.7E-05
1	86-73-7	Fluorene	1.53E-03	2.2E-08	19	1.7E-07	3.1E-07	4.0E-07	4.5E-07	5.0E-07	5.4E-07	5.7E-07	5.8E-07	5.8E-07	5.7E-07	5.8E-07	6.0E-07	6.1E-07	6.2E-07	6.1E-07	5.8E-07	2.1E-07	1.7E-07	1.5E-07	2.6E-07	2.7E-07
1	91-20-3	Naphthalene	1.19E-02	1.7E-07	19	1.4E-06	2.4E-06	3.1E-06	3.5E-06	3.9E-06	4.2E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.6E-06	4.8E-06	4.8E-06	4.7E-06	4.5E-06	1.6E-06	1.3E-06	1.2E-06	2.0E-06	2.1E-06
1	91-57-6	2-Methylnaphthalene	5.16E-03	7.4E-08	19	5.9E-07	1.0E-06	1.3E-06	1.5E-06	1.7E-06	1.8E-06	1.9E-06	2.0E-06	2.0E-06	1.9E-06	2.0E-06	2.0E-06	2.1E-06	2.1E-06	2.0E-06	2.0E-06	7.1E-07	5.8E-07	5.0E-07	8.8E-07	9.3E-07
1	95-47-6	o-Xylene	1.30E-03	1.9E-08	19	1.5E-07	2.6E-07	3.4E-07	3.8E-07	4.2E-07	4.6E-07	4.8E-07	4.9E-07	4.9E-07	4.9E-07	4.9E-07	5.0E-07	5.2E-07	5.3E-07	5.1E-07	4.9E-07	1.8E-07	1.4E-07	1.3E-07	2.2E-07	2.3E-07
1	95-50-1	1,2-Dichlorobenzene	1.90E-04	2.7E-09	19	2.2E-08	3.8E-08	4.9E-08	5.6E-08	6.2E-08	6.7E-08	7.1E-08	7.2E-08	7.2E-08	7.1E-08	7.2E-08	7.4E-08	7.6E-08	7.7E-08	7.5E-08	7.2E-08	2.6E-08	2.1E-08	1.8E-08	3.2E-08	3.4E-08
1	95-63-6	1,2,4-Trimethylbenzene	3.33E-03	4.8E-08	19	3.8E-07	6.7E-07	8.7E-07	9.9E-07	1.1E-06	1.2E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.4E-06	1.3E-06	1.3E-06	4.6E-07	3.7E-07	3.2E-07	5.7E-07	6.0E-07
1	98-82-8	1-METHYLETHYLBENZENE	9.67E-03	1.4E-07	19	1.1E-06	1.9E-06	2.5E-06	2.9E-06	3.1E-06	3.4E-06	3.6E-06	3.7E-06	3.7E-06	3.6E-06	3.7E-06	3.8E-06	3.9E-06	3.9E-06	3.8E-06	3.7E-06	1.3E-06	1.1E-06	9.4E-07	1.6E-06	1.7E-06
1	10042-59-8	2-PROPYL-1-HEPTANOL	2.32E-02	3.3E-07	19	2.6E-06	4.6E-06	6.0E-06	6.9E-06	7.5E-06	8.2E-06	8.7E-06	8.8E-06	8.8E-06	8.7E-06	8.8E-06	9.0E-06	9.3E-06	9.4E-06	9.2E-06	8.8E-06	3.2E-06	2.6E-06	2.2E-06	3.9E-06	4.2E-06
1	1031-07-8	Endosulfan sulfate	5.24E-06	7.5E-11	19	6.0E-10	1.0E-09	1.4E-09	1.6E-09	1.7E-09	1.8E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	2.0E-09	7.2E-10	5.9E-10	5.1E-10	8.9E-10	9.4E-10
1	106-42-3	P-XYLENE	4.75E-04	6.8E-09	19	5.4E-08	9.5E-08	1.2E-07	1.4E-07	1.5E-07	1.7E-07	1.8E-07	1.8E-07	1.8E-07	1.8E-07	1.8E-07	1.9E-07	1.9E-07	1.9E-07	1.9E-07	1.8E-07	6.5E-08	5.3E-08	4.6E-08	8.1E-08	8.5E-08
1	106-43-4	4-Chlorotoluene	1.46E-03	2.1E-08	19	1.7E-07	2.9E-07	3.8E-07	4.3E-07	4.8E-07	5.2E-07	5.5E-07	5.6E-07	5.6E-07	5.5E-07	5.5E-07	5.7E-07	5.9E-07	5.9E-07	5.8E-07	5.5E-07	2.0E-07	1.6E-07	1.4E-07	2.5E-07	2.6E-07
1	106-46-7	1,4-Dichlorobenzene	2.80E-04	4.0E-09	19	3.2E-08	5.6E-08	7.3E-08	8.3E-08	9.1E-08	9.9E-08	1.0E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	3.9E-08	3.1E-08	2.7E-08	4.8E-08	5.0E-08
1	106-93-4	1,2-Dibromoethane	7.43E-06	1.1E-10	19	8.5E-10	1.5E-09	1.9E-09	2.2E-09	2.4E-09	2.6E-09	2.8E-09	2.8E-09	2.8E-09	2.8E-09	2.8E-09	2.9E-09	3.0E-09	3.0E-09	3.0E-09	2.8E-09	1.0E-09	8.3E-10	7.2E-10	1.3E-09	1.3E-09
1	107-06-2	1,2-Dichloroethane	1.22E-02	1.8E-07	19	1.4E-06	2.4E-06	3.2E-06	3.6E-06	4.0E-06	4.3E-06	4.6E-06	4.6E-06	4.6E-06	4.6E-06	4.6E-06	4.8E-06	4.9E-06	4.9E-06	4.8E-06	4.6E-06	1.7E-06	1.4E-06	1.2E-06	2.1E-06	2.2E-06
1	108-38-3	M-XYLENE	3.29E-02	4.7E-07	19	3.8E-06	6.6E-06	8.6E-06	9.7E-06	1.1E-05	1.2E-05	1.2E-05	1.3E-05	1.2E-05	1.2E-05	1.2E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.2E-05	4.5E-06	3.7E-06	3.2E-06	5.6E-06	5.9E-06
1	108-90-7	Chlorobenzene	8.04E-03	1.2E-07	19	9.2E-07	1.6E-06	2.1E-06	2.4E-06	2.6E-06	2.8E-06	3.0E-06	3.1E-06	3.1E-06	3.0E-06	3.0E-06	3.1E-06	3.2E-06	3.3E-06	3.2E-06	3.0E-06	1.1E-06	9.0E-07	7.8E-07	1.4E-06	1.4E-06
1	11097-69-1	Aroclor 1254	7.43E-03	1.1E-07	19	8.5E-07	1.5E-06	1.9E-06	2.2E-06	2.4E-06	2.6E-06	2.8E-06	2.8E-06	2.8E-06	2.8E-06	2.8E-06	2.9E-06	3.0E-06	3.0E-06	3.0E-06	2.8E-06	1.0E-06	8.3E-07	7.2E-07	1.3E-06	1.3E-06
1	120-82-1	1,2,4-Trichlorobenzene	1.22E-06	1.8E-11	19	1.4E-10	2.4E-10	3.2E-10	3.6E-10	4.0E-10	4.3E-10	4.6E-10	4.6E-10	4.6E-10	4.6E-10	4.6E-10	4.8E-10	4.9E-10	4.9E-10	4.8E-10	4.6E-10	1.7E-10	1.4E-10	1.2E-10	2.1E-10	2.2E-10
1	12672-29-6	Aroclor 1248	6.34E-03	9.1E-08	19	7.2E-07	1.3E-06	1.6E-06	1.9E-06	2.1E-06	2.2E-06	2.4E-06	2.4E-06	2.4E-06	2.4E-06	2.4E-06	2.5E-06	2.5E-06	2.6E-06	2.5E-06	2.4E-06	8.7E-07	7.1E-07	6.2E-07	1.1E-06	1.1E-06
1	12674-11-2	Aroclor 1016	1.95E-03	2.8E-08	19	2.2E-07	3.9E-07	5.1E-07	5.8E-07	6.3E-07	6.9E-07	7.3E-07	7.4E-07	7.4E-07	7.3E-07	7.4E-07	7.6E-07	7.8E-07	7.9E-07	7.7E-07	7.4E-07	2.7E-07	2.2E-07	1.9E-07	3.3E-07	3.5E-07
1	127-18-4	Tetrachloroethene	9.51E-06	1.4E-10	19	1.1E-09	1.9E-09	2.5E-09	2.8E-09	3.1E-09	3.3E-09	3.6E-09	3.6E-09	3.6E-09	3.6E-09	3.6E-09	3.7E-09	3.8E-09	3.9E-09	3.8E-09	3.6E-09	1.3E-09	1.1E-09	9.2E-10	1.6E-09	1.7E-09
1	132-64-9	Dibenzofuran	6.58E-04	9.5E-09	19	7.5E-08	1.3E-07	1.7E-07	1.9E-07	2.1E-07	2.3E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.5E-07	2.6E-07	2.6E-07	2.7E-07	2.6E-07	2.5E-07	9.1E-08	7.4E-08	6.4E-08	1.1E-07	1.2E-07
1	1653-40-3	6-METHYL-1,1-HEPTANOL	3.66E-02	5.3E-07	19	4.2E-06	7.3E-06	9.5E-06	1.1E-05	1.2E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.5E-05	1.5E-05	1.5E-05	1.4E-05	5.0E-06	4.1E-06	3.5E-06	6.2E-06	6.6E-06
1	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	4.02E-03	5.8E-08	19	4.6E-07	8.0E-07	1.0E-06	1.2E-06	1.3E-06	1.4E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.5E-06	5.5E-07	4.5E-07	3.9E-07	6.8E-07	7.2E-07
1	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.01E-02	1.5E-07	19	1.2E-06	2.0E-06	2.6E-06	3.0E-06	3.3E-06	3.6E-06	3.8E-06	3.9E-06	3.8E-06	3.8E-06	3.8E-06	3.9E-06	4.1E-06	4.1E-06	4.0E-06	3.8E-06	1.4E-06	1.1E-06	9.8E-07	1.7E-06	1.8E-06
1	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	5.00E-03	7.2E-08	19	5.7E-07	1.0E-06	1.3E-06	1.5E-06	1.6E-06	1.8E-06	1.9E-06	1.9E-06	1.9E-06	1.9E-06	1.9E-06	1.9E-06	2.0E-06	2.0E-06	2.0E-06	1.9E-06	6.9E-07	5.6E-07	4.9E-07	8.5E-07	9.0E-07
1	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	4.14E-03	6.0E-08	19	4.7E-07	8.3E-07	1.1E-06	1.2E-06	1.3E-06	1.5E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.7E-06	1.7E-06	1.6E-06	1.6E-06	5.7E-07	4.6E-07	4.0E-07	7.0E-07	7.4E-07
1	26952-21-6	ISOOCTANOL	1.34E-02	1.9E-07	19	1.5E-06	2.7E-06	3.5E-06	4.0E-06	4.4E-06	4.7E-06	5.0E-06	5.1E-06	5.1E-06	5.0E-06	5.1E-06	5.2E-06	5.4E-06	5.4E-06	5.3E-06	5.1E-06	1.8E-06	1.5E-06	1.3E-06	2.3E-06	2.4E-06
1	2719-52-0	(1-METHYLBUTYL)BENZENE	7.43E-03	1.1E-07	19	8.5E-07	1.5E-06	1.9E-06	2.2E-06	2.4E-06	2.6E-06	2.8E-06	2.8E-06	2.8E-06	2.8E-06	2.8E-06	2.9E-06	3.0E-06	3.0E-06	3.0E-06	2.8E-06	1.0E-06	8.3E-07	7.2E-07	1.3E-06	1.3E-06
1	2883-05-8	2-CYCLOHEXYLDECANE	9.87E-03	1.4E-07	19	1.1E-06	2.0E-06	2.6E-06	2.9E-06	3.2E-06	3.5E-06	3.7E-06	3.8E-06	3.7E-06	3.7E-06	3.7E-06	3.8E-06	4.0E-06	4.0E-06	3.9E-06	3.7E-06	1.4E-06	1.1E-06	9.6E-07	1.7E-06	1.8E-06
1	33213-65-9	Endosulfan II	1.34E-05	1.9E-10	19	1.5E-09	2.7E-09	3.5E-09	4.0E-09	4.4E-09	4.7E-09	5.0E-09	5.1E-09	5.1E-09	5.0E-09	5.1E-09	5.2E-09	5.4E-09	5.4E-09	5.3E-09	5.1E-09	1.8E-09	1.5E-09	1.3E-09	2.3E-09	2.4E-09
1	3875-51-2	1-METHYLETHYLCYCLOPENTANE	5.12E-03	7.4E-08	19	5.9E-07	1.0E-06	1.3E-06	1.5E-06	1.7E-06	1.8E-06	1.9E-06	2.0E-06	1.9E-06	1.9E-06	1.9E-06	2.0E-06	2.1E-06	2.1E-06	2.0E-06	1.9E-06	7.0E-07	5.7E-07	5.0E-07	8.7E-07	9.2E-07
1	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	3.29E-03	4.7E-08	19	3.8E-07	6.6E-07	8.6E-07	9.7E-07	1.1E-06	1.2E-06	1.2E-06	1.3E-06	1.2E-06	1.2E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.2E-06	4.5E-07	3.7E-07	3.2E-07	5.6E-07	5.9E-07
1	496-10-6	OCTAHYDROINDENE	3.78E-02	5.4E-07	19	4.3E-06	7.6E-06	9.8E-06	1.1E-05	1.2E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.5E-05	1.5E-05	1.5E-05	1.5E-05	1.4E-05	5.2E-06	4.2E-06	3.7E-06	6.4E-06	6.8E-06
1	5103-74-2	GAMMA-CHLORDANE	2.07E-05	3.0E-10	19	2.4E-09	4.1E-09	5.4E-09	6.1E-09	6.7E-09	7.3E-09	7.7E-09	7.9E-09	7.9E-09	7.8E-09	7.8E-09	8.1E-09	8.3E-09	8.4E-09	8.2E-09	7.8E-09	2.9E-09	2.3E-09	2.0E-09	3.5E-09	3.7E-09

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
1	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	9.14E-03	1.3E-07	19	1.0E-06	1.8E-06	2.4E-06	2.7E-06	3.0E-06	3.2E-06	3.4E-06	3.5E-06	3.5E-06	3.4E-06	3.5E-06	3.6E-06	3.7E-06	3.7E-06	3.6E-06	3.5E-06	1.3E-06	1.0E-06	8.9E-07	1.6E-06	1.6E-06
1	53469-21-9	Aroclor 1242	5.12E-03	7.4E-08	19	5.9E-07	1.0E-06	1.3E-06	1.5E-06	1.7E-06	1.8E-06	1.9E-06	2.0E-06	1.9E-06	1.9E-06	1.9E-06	2.0E-06	2.1E-06	2.1E-06	2.0E-06	1.9E-06	7.0E-07	5.7E-07	5.0E-07	8.7E-07	9.2E-07
1	53494-70-5	Endrin ketone	3.66E-06	5.3E-11	19	4.2E-10	7.3E-10	9.5E-10	1.1E-09	1.2E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.5E-09	1.5E-09	1.5E-09	1.4E-09	5.0E-10	4.1E-10	3.5E-10	6.2E-10	6.6E-10
1	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.88E-02	7.0E-07	19	5.6E-06	9.7E-06	1.3E-05	1.4E-05	1.6E-05	1.7E-05	1.8E-05	1.9E-05	1.9E-05	1.8E-05	1.8E-05	1.9E-05	2.0E-05	2.0E-05	1.9E-05	1.8E-05	6.7E-06	5.5E-06	4.7E-06	8.3E-06	8.8E-06
1	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.19E-03	3.2E-08	19	2.5E-07	4.4E-07	5.7E-07	6.5E-07	7.1E-07	7.7E-07	8.2E-07	8.4E-07	8.3E-07	8.2E-07	8.3E-07	8.6E-07	8.8E-07	8.9E-07	8.7E-07	8.3E-07	3.0E-07	2.5E-07	2.1E-07	3.7E-07	3.9E-07
1	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	9.38E-03	1.3E-07	19	1.1E-06	1.9E-06	2.4E-06	2.8E-06	3.1E-06	3.3E-06	3.5E-06	3.6E-06	3.6E-06	3.5E-06	3.5E-06	3.7E-06	3.8E-06	3.8E-06	3.7E-06	3.5E-06	1.3E-06	1.1E-06	9.1E-07	1.6E-06	1.7E-06
1	591-78-6	2-Hexanone	4.14E-06	6.0E-11	19	4.7E-10	8.3E-10	1.1E-09	1.2E-09	1.3E-09	1.5E-09	1.5E-09	1.6E-09	1.6E-09	1.6E-09	1.6E-09	1.6E-09	1.7E-09	1.7E-09	1.6E-09	1.6E-09	5.7E-10	4.6E-10	4.0E-10	7.0E-10	7.4E-10
1	65-85-0	Benzoic acid	1.95E-04	2.8E-09	19	2.2E-08	3.9E-08	5.1E-08	5.8E-08	6.3E-08	6.9E-08	7.3E-08	7.4E-08	7.4E-08	7.3E-08	7.4E-08	7.6E-08	7.8E-08	7.9E-08	7.7E-08	7.4E-08	2.7E-08	2.2E-08	1.9E-08	3.3E-08	3.5E-08
1	67-66-3	Chloroform	3.05E-02	4.4E-07	19	3.5E-06	6.1E-06	7.9E-06	9.0E-06	9.9E-06	1.1E-05	1.1E-05	1.2E-05	1.2E-05	1.1E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	4.2E-06	3.4E-06	3.0E-06	5.2E-06	5.5E-06
1	71-55-6	1,1,1-Trichloroethane	1.58E-02	2.3E-07	19	1.8E-06	3.2E-06	4.1E-06	4.7E-06	5.1E-06	5.6E-06	5.9E-06	6.0E-06	6.0E-06	5.9E-06	6.0E-06	6.2E-06	6.4E-06	6.4E-06	6.3E-06	6.0E-06	2.2E-06	1.8E-06	1.5E-06	2.7E-06	2.8E-06
1	75-34-3	1,1-Dichloroethane	8.53E-04	1.2E-08	19	9.8E-08	1.7E-07	2.2E-07	2.5E-07	2.8E-07	3.0E-07	3.2E-07	3.3E-07	3.2E-07	3.2E-07	3.2E-07	3.3E-07	3.4E-07	3.5E-07	3.4E-07	3.2E-07	1.2E-07	9.5E-08	8.3E-08	1.4E-07	1.5E-07
1	75-35-4	1,1-Dichloroethene	5.24E-06	7.5E-11	19	6.0E-10	1.0E-09	1.4E-09	1.6E-09	1.7E-09	1.8E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	2.0E-09	7.2E-10	5.9E-10	5.1E-10	8.9E-10	9.4E-10
1	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.05E-02	1.5E-07	19	1.2E-06	2.1E-06	2.7E-06	3.1E-06	3.4E-06	3.7E-06	3.9E-06	4.0E-06	4.0E-06	3.9E-06	4.0E-06	4.1E-06	4.2E-06	4.3E-06	4.2E-06	4.0E-06	1.4E-06	1.2E-06	1.0E-06	1.8E-06	1.9E-06
1	79-34-5	1,1,2,2-Tetrachloroethane	1.15E-04	1.6E-09	19	1.3E-08	2.3E-08	3.0E-08	3.4E-08	3.7E-08	4.0E-08	4.3E-08	4.4E-08	4.3E-08	4.3E-08	4.3E-08	4.5E-08	4.6E-08	4.6E-08	4.5E-08	4.3E-08	1.6E-08	1.3E-08	1.1E-08	1.9E-08	2.1E-08
1	87-61-6	1,2,3-Trichlorobenzene	1.58E-06	2.3E-11	19	1.8E-10	3.2E-10	4.1E-10	4.7E-10	5.1E-10	5.6E-10	5.9E-10	6.0E-10	6.0E-10	5.9E-10	6.0E-10	6.2E-10	6.4E-10	6.4E-10	6.3E-10	6.0E-10	2.2E-10	1.8E-10	1.5E-10	2.7E-10	2.8E-10
1	91-17-8	DECAHYDRONAPHTHALENE	1.83E-02	2.6E-07	19	2.1E-06	3.7E-06	4.8E-06	5.4E-06	5.9E-06	6.4E-06	6.8E-06	7.0E-06	6.9E-06	6.9E-06	6.9E-06	7.1E-06	7.3E-06	7.4E-06	7.3E-06	6.9E-06	2.5E-06	2.0E-06	1.8E-06	3.1E-06	3.3E-06
1	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.44E-03	3.5E-08	19	2.8E-07	4.9E-07	6.3E-07	7.2E-07	7.9E-07	8.6E-07	9.1E-07	9.3E-07	9.3E-07	9.1E-07	9.2E-07	9.5E-07	9.8E-07	9.9E-07	9.7E-07	9.2E-07	3.4E-07	2.7E-07	2.4E-07	4.1E-07	4.4E-07
1	96-12-8	1,2-Dibromo-3-Chloropropane	7.19E-06	1.0E-10	19	8.2E-10	1.4E-09	1.9E-09	2.1E-09	2.3E-09	2.5E-09	2.7E-09	2.7E-09	2.7E-09	2.7E-09	2.7E-09	2.8E-09	2.9E-09	2.9E-09	2.9E-09	2.7E-09	9.9E-10	8.0E-10	7.0E-10	1.2E-09	1.3E-09
1	98-06-6	tert-Butylbenzene	3.29E-06	4.7E-11	19	3.8E-10	6.6E-10	8.6E-10	9.7E-10	1.1E-09	1.2E-09	1.2E-09	1.3E-09	1.2E-09	1.2E-09	1.2E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.2E-09	4.5E-10	3.7E-10	3.2E-10	5.6E-10	5.9E-10
2_1	100-41-4	Ethylbenzene	1.48E-03	2.1E-08	7	2.2E-07	3.8E-07	7.1E-07	1.7E-06	4.0E-06	5.8E-06	5.8E-06	3.8E-06	2.2E-06	1.3E-06	8.7E-07	6.1E-07	4.4E-07	3.3E-07	2.6E-07	2.0E-07	9.9E-08	1.1E-07	7.4E-08	2.1E-07	3.1E-07
2_1	100-42-5	Styrene	9.30E-04	1.3E-08	7	1.4E-07	2.4E-07	4.4E-07	1.0E-06	2.5E-06	3.7E-06	3.6E-06	2.4E-06	1.4E-06	8.3E-07	5.5E-07	3.8E-07	2.8E-07	2.1E-07	1.6E-07	1.3E-07	6.2E-08	6.7E-08	4.7E-08	1.3E-07	2.0E-07
2_1	103-65-1	n-Propylbenzene	1.83E-04	2.6E-09	7	2.8E-08	4.6E-08	8.7E-08	2.1E-07	4.9E-07	7.2E-07	7.1E-07	4.6E-07	2.7E-07	1.6E-07	1.1E-07	7.5E-08	5.4E-08	4.1E-08	3.2E-08	2.5E-08	1.2E-08	1.3E-08	9.1E-09	2.6E-08	3.9E-08
2_1	104-51-8	n-Butylbenzene	3.29E-05	4.7E-10	7	5.0E-09	8.3E-09	1.6E-08	3.7E-08	8.8E-08	1.3E-07	1.3E-07	8.3E-08	4.8E-08	2.9E-08	1.9E-08	1.3E-08	9.8E-09	7.3E-09	5.7E-09	4.5E-09	2.2E-09	2.4E-09	1.6E-09	4.6E-09	7.0E-09
2_1	108-67-8	1,3,5-Trimethylbenzene	1.02E-04	1.5E-09	7	1.5E-08	2.6E-08	4.9E-08	1.2E-07	2.8E-07	4.0E-07	4.0E-07	2.6E-07	1.5E-07	9.1E-08	6.0E-08	4.2E-08	3.0E-08	2.3E-08	1.8E-08	1.4E-08	6.8E-09	7.4E-09	5.1E-09	1.4E-08	2.2E-08
2_1	108-88-3	Toluene	1.11E-04	1.6E-09	7	1.7E-08	2.8E-08	5.3E-08	1.3E-07	3.0E-07	4.4E-07	4.3E-07	2.8E-07	1.6E-07	9.9E-08	6.5E-08	4.6E-08	3.3E-08	2.5E-08	1.9E-08	1.5E-08	7.4E-09	8.0E-09	5.6E-09	1.6E-08	2.3E-08
2_1	11096-82-5	Aroclor 1260	9.81E-06	1.4E-10	7	1.5E-09	2.5E-09	4.7E-09	1.1E-08	2.6E-08	3.9E-08	3.8E-08	2.5E-08	1.4E-08	8.7E-09	5.8E-09	4.0E-09	2.9E-09	2.2E-09	1.7E-09	1.3E-09	6.6E-10	7.1E-10	4.9E-10	1.4E-09	2.1E-09
2_1	120-12-7	Anthracene	9.11E-05	1.3E-09	7	1.4E-08	2.3E-08	4.3E-08	1.0E-07	2.4E-07	3.6E-07	3.5E-07	2.3E-07	1.3E-07	8.1E-08	5.3E-08	3.7E-08	2.7E-08	2.0E-08	1.6E-08	1.2E-08	6.1E-09	6.6E-09	4.6E-09	1.3E-08	1.9E-08
2_1	129-00-0	Pyrene	2.89E-05	4.2E-10	7	4.4E-09	7.3E-09	1.4E-08	3.3E-08	7.8E-08	1.1E-07	1.1E-07	7.3E-08	4.2E-08	2.6E-08	1.7E-08	1.2E-08	8.6E-09	6.4E-09	5.0E-09	3.9E-09	1.9E-09	2.1E-09	1.4E-09	4.1E-09	6.1E-09
2_1	1330-20-7	XYLENES (TOTAL)	5.64E-04	8.1E-09	7	8.5E-08	1.4E-07	2.7E-07	6.4E-07	1.5E-06	2.2E-06	2.2E-06	1.4E-06	8.3E-07	5.0E-07	3.3E-07	2.3E-07	1.7E-07	1.3E-07	9.7E-08	7.7E-08	3.8E-08	4.1E-08	2.8E-08	8.0E-08	1.2E-07
2_1	135-98-8	(1-METHYLPROPYL)BENZENE	8.08E-04	1.2E-08	7	1.2E-07	2.0E-07	3.9E-07	9.1E-07	2.2E-06	3.2E-06	3.2E-06	2.0E-06	1.2E-06	7.2E-07	4.7E-07	3.3E-07	2.4E-07	1.8E-07	1.4E-07	1.1E-07	5.4E-08	5.8E-08	4.0E-08	1.1E-07	1.7E-07
2_1	179601-23-1	m,p-Xylenes	2.53E-04	3.6E-09	7	3.8E-08	6.4E-08	1.2E-07	2.8E-07	6.8E-07	1.0E-06	9.8E-07	6.4E-07	3.7E-07	2.3E-07	1.5E-07	1.0E-07	7.5E-08	5.6E-08	4.4E-08	3.4E-08	1.7E-08	1.8E-08	1.3E-08	3.6E-08	5.3E-08
2_1	67-64-1	2-PROPANONE	2.16E-04	3.1E-09	7	3.3E-08	5.5E-08	1.0E-07	2.4E-07	5.8E-07	8.5E-07	8.4E-07	5.5E-07	3.2E-07	1.9E-07	1.3E-07	8.9E-08	6.4E-08	4.8E-08	3.7E-08	2.9E-08	1.4E-08	1.6E-08	1.1E-08	3.0E-08	4.6E-08
2_1	71-43-2	Benzene	6.97E-05	1.0E-09	7	1.1E-08	1.8E-08	3.3E-08	7.9E-08	1.9E-07	2.7E-07	2.7E-07	1.8E-07	1.0E-07	6.2E-08	4.1E-08	2.9E-08	2.1E-08	1.6E-08	1.2E-08	9.5E-09	4.7E-09	5.0E-09	3.5E-09	9.8E-09	1.5E-08
2_1	7421-93-4	Endrin aldehyde	2.30E-07	3.3E-12	7	3.5E-11	5.8E-11	1.1E-10	2.6E-10	6.2E-10	9.1E-10	9.0E-10	5.8E-10	3.4E-10	2.1E-10	1.3E-10	9.4E-11	6.8E-11	5.1E-11	4.0E-11	3.1E-11	1.5E-11	1.7E-11	1.2E-11	3.2E-11	4.9E-11
2_1	7439-98-7	Molybdenum	2.06E-04	3.0E-09	7	3.1E-08	5.2E-08	9.9E-08	2.3E-07	5.6E-07	8.1E-07	8.0E-07	5.2E-07	3.0E-07	1.8E-07	1.2E-07	8.5E-08	6.1E-08	4.6E-08	3.6E-08	2.8E-08	1.4E-08	1.5E-08	1.0E-08	2.9E-08	4.4E-08
2_1	75-09-2	Methylene Chloride	9.45E-05	1.4E-09	7	1.4E-08	2.4E-08	4.5E-08	1.1E-07	2.5E-07	3.7E-07	3.7E-07	2.4E-07	1.4E-07	8.4E-08	5.5E-08	3.9E-08	2.8E-08	2.1E-08	1.6E-08	1.3E-08	6.3E-09	6.8E-09	4.7E-09	1.3E-08	2.0E-08
2_1	75-69-4	Trichlorofluoromethane	3.16E-05	4.6E-10	7	4.8E-09	8.0E-09	1.5E-08	3.6E-08	8.5E-08	1.2E-07	1.2E-07	8.0E-08	4.6E-08	2.8E-08	1.9E-08	1.3E-08	9.4E-09	7.1E-09	5.5E-09	4.3E-09	2.1E-09	2.3E-09	1.6E-09	4.5E-09	6.7E-09
2_1	78-93-3	2-Butanone	6.12E-05	8.8E-10	7	9.2E-09	1.6E-08	2.9E-08	6.9E-08	1.6E-07	2.4E-07	2.4E-07	1.6E-07	9.0E-08	5.5E-08	3.6E-08	2.5E-08	1.8E-08	1.4E-08	1.1E-08	8.3E-09	4.1E-09	4.4E-09	3.1E-09	8.6E-09	1.3E-08
2_1	83-32-9	Acenaphthene	2.36E-05	3.4E-10	7	3.6E-09	6.0E-09	1.1E-08	2.7E-08	6.3E-08	9.3E-08	9.2E-08	6.0E-08	3.5E-08	2.1E-08	1.4E-08	9.7E-09	7.0E-09	5.3E-09	4.1E-09	3.2E-09	1.6E-09	1.7E-09	1.2E-09	3.3E-09	5.0E-09
2_1	85-01-8	Phenanthrene	8.87E-03	1.3E-07	7	1.3E-06	2.2E-06	4.2E-06	1.0E-05	2.4E-05	3.5E-05	3.5E-05	2.2E-05	1.3E-05	7.9E-06	5.2E-06	3.6E-06	2.6E-06	2.0E-06	1.5E-06	1.2E-06	5.9E-07	6.4E-07	4.4E-07	1.3E-06	1.9E-06
2_1	86-73-7	Fluorene	1.43E-04	2.1E-09	7	2.2E-08	3.6E-08	6.8E-08	1.6E-07	3.8E-07	5.6E-07	5.6E-07	3.6E-07	2.1E-07	1.3E-07	8.4E-08	5.9E-08	4.3E-08	3.2E-08	2.5E-08	1.9E-08	9.6E-09	1.0E-08	7.1E-09	2.0E-08	3.0E-08
2_1	91-20-3	Naphthalene	1.11E-03	1.6E-08	7	1.7E-07	2.8E-07	5.3E-07	1.3E-06	3.0E-06	4.4E-06	4.3E-06	2.8E-06	1.6E-06	9.9E-07	6.5E-07	4.6E-07	3.3E-07	2.5E-07	1.9E-07	1.5E-07	7.4E-08	8.0E-08	5.6E-08	1.6E-07	2.4E-07
2_1	91-57-6	2-Methylnaphthalene	4.82E-04	6.9E-09	7	7.3E-08	1.2E-07	2.3E-07	5.4E-07	1.3E-06	1.9E-06	1.9E-06	1.2E-06	7.1E-07	4.3E-07	2.8E-07	2.0E-07	1.4E-07	1.1E-07	8.3E-08	6.5E-08	3.2E-08	3.5E-08	2.4E-08	6.8E-08	1.0E-07
2_1	95-47-6	o-Xylene	1.21E-04	1.7E-09	7	1.8E-08	3.1E-08	5.8E-08	1.4E-07	3.3E-07	4.8E-07	4.7E-07	3.1E-07	1.8E-07	1.1E-07	7.1E-08	5.0E-08	3.6E-08	2.7E-08	2.1E-08	1.6E-08	8.1E-09	8.7E-09	6.1E-09	1.7E-08	2.6E-08
2_1	95-50-1	1,2-Dichlorobenzene	1.78E-05	2.6E-10	7	2.7E-09	4.5E-09	8.5E-09	2.0E-08	4.8E-08	7.0E-08	6.9E-08	4.5E-08	2.6E-08	1.6E-08	1.0E-08	7.3E-09	5.3E-09	4.0E-09	3.1E-09	2.4E-09	1.2E-09	1.3E-09	8.9E-10	2.5E-09	3.8E-09
2_1	95-63-6	1,2,4-Trimethylbenzene	3.11E-04	4.5E-09	7	4.7E-08	7.9E-08	1.5E-07	3.5E-07	8.4E-07	1.2E-06	1.2E-06	7.9E-07	4.6E-07	2.8E-07	1.8E-07	1.3E-07	9.3E-08	6.9E-08	5.4E-08	4.2E-08	2.1E-08	2.2E-08	1.6E-08	4.4E-08	6.6E-08
2_1	98-82-8	1-METHYLETHYLBENZENE	9.04E-04	1.3E-08	7	1.4E-07	2.3E-07	4.3E-07	1.0E-06	2.4E-06	3.6E-06	3.5E-06	2.3E-06	1.3E-06	8.1E-07	5.3E-07	3.7E-07	2.7E-07	2.0E-07	1.6E-07	1.2E-07	6.0E-08	6.5E-08	4.5E-08	1.3E-07	1.9E-07
2_1	10042-59-8	2-PROPYL-1-HEPTANOL	2.16E-03	3.1E-08	7	3.3E-07	5.5E-07	1.0E-06	2.4E-06	5.8E-06	8.5E-06	8.4E-06	5.5E-06	3.2E-06	1.9E-06	1.3E-06	8.9E-07	6.4E-07	4.8E-07	3.7E-07	2.9E-07	1.4E-07	1.6E-07	1.1E-07	3.1E-07	4.6E-07
2_1	1031-07-8	Endosulfan sulfate	4.89E-07	7.0E-12	7	7.4E-11	1.2E-10	2.3E-10	5.5E-10	1.3E-09	1.9E-09	1.9E-09	1.2E-09	7.2E-10	4.4E-10	2.9E-10	2.0E-10	1.5E-10	1.1E-10	8.4E-11	6.6E-11	3.3E-11	3.5E-11	2.4E-11	6.9E-11	1.0E-10
2_1	106-42-3	P-XYLENE	4.44E-05	6.4E-10	7	6.7E-09	1.1E-08	2.1E-08	5.0E-08	1.2E-07	1.7E-07	1.7E-07	1.1E-07	6.5E-08	4.0E-08	2.6E-08	1.8E-08	1.3E-08	9.9E-09	7.7E-09	6.0E-09	3.0E-09	3.2E-09	2.2E-09	6.3E-09	9.4E-09
2_1	106-43-4	4-Chlorotoluene	1.37E-04	2.0E-09	7	2.1E-08	3.5E-08	6.5E-08	1.5E-07	3.7E-07	5.4E-07	5.3E-07	3.5E-07	2.0E-07	1.2E-07	8.0E-08	5.6E-08	4.1E-08	3.0E-08	2.4E-08	1.9E-08	9.1E-09	9.8E-09	6.8E-09	1.9E-08	2.9E-08
2_1	106-46-7	1,4-Dichlorobenzene	2.62E-05	3.8E-10	7	4.0E-09	6.6E-09	1.3E-08	3.0E-08	7.0E-08	1.0E-07	1.0E-07	6.6E-08	3.8E-08	2.3E-08	1.5E-08	1.1E-08	7.8E-09	5.8E-09	4.5E-09	3.6E-09	1.8E-09	1.9E-09	1.3E-09	3.7E-09	5.5E-09
2_1	106-93-4	1,2-Dibromoethane	6.94E-07	1.0E-11	7	1.0E-10	1.8E-10	3.3E-10	7.8E-10	1.9E-09	2.7E-09	2.7E-09	1.8E-09	1.0E-09	6.2E-10	4.1E-10	2.8E-10	2.1E-10	1.5E-10	1.2E-10	9.4E-11	4.6E-11	5.0E-11	3.5E-11	9.8E-11	1.5E-10
2_1	107-06-2	1,2-Dichloroethane	1.14E-03	1.6E-08	7	1.7E-07	2.9E-07	5.4E-07	1.3E-06	3.1E-06	4.5E-06	4.4E-06	2.9E-06	1.7E-06	1.0E-06	6.7E-07	4.7E-07	3.4E-07	2.5E-07	2.0E-07	1.5E-07	7.6E-08	8.2E-08	5.7E-08	1.6E-07	2.4E-07
2_1	108-38-3	M-XYLENE	3.07E-03	4.4E-08	7	4.6E-07	7.8E-07	1.5E-06	3.5E-06	8.3E-06	1.2E-05	1.2E-05	7.8E-06	4.5E-06	2.7E-06	1.8E-06	1.3E-06	9.1E-07	6.9E-07	5.3E-07	4.2E-07	2.1E-07	2.2E-07	1.5E-07	4.3E-07	6.5E-07
2_1	108-90-7	Chlorobenzene	7.51E-04	1.1E-08	7	1.1E-07	1.9E-07	3.6E-07	8.5E-07	2.0E-06	3.0E-06	2.9E-06	1.9E-06	1.1E-06	6.7E-07	4.4E-07	3.1E-07	2.2E-07	1.7E-07	1.3E-07	1.0E-07	5.0E-08	5.4E-08	3.8E-08	1.1E-07	1.6E-07

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
2_1	11097-69-1	Aroclor 1254	6.94E-04	1.0E-08	7	1.0E-07	1.8E-07	3.3E-07	7.8E-07	1.9E-06	2.7E-06	2.7E-06	1.8E-06	1.0E-06	6.2E-07	4.1E-07	2.8E-07	2.1E-07	1.5E-07	1.2E-07	9.4E-08	4.6E-08	5.0E-08	3.5E-08	9.8E-08	1.5E-07
2_1	120-82-1	1,2,4-Trichlorobenzene	1.14E-07	1.6E-12	7	1.7E-11	2.9E-11	5.4E-11	1.3E-10	3.1E-10	4.5E-10	4.4E-10	2.9E-10	1.7E-10	1.0E-10	6.7E-11	4.7E-11	3.4E-11	2.5E-11	2.0E-11	1.5E-11	7.6E-12	8.2E-12	5.7E-12	1.6E-11	2.4E-11
2_1	12672-29-6	Aroclor 1248	5.92E-04	8.5E-09	7	8.9E-08	1.5E-07	2.8E-07	6.7E-07	1.6E-06	2.3E-06	2.3E-06	1.5E-06	8.7E-07	5.3E-07	3.5E-07	2.4E-07	1.8E-07	1.3E-07	1.0E-07	8.0E-08	4.0E-08	4.3E-08	3.0E-08	8.4E-08	1.3E-07
2_1	12674-11-2	Aroclor 1016	1.82E-04	2.6E-09	7	2.8E-08	4.6E-08	8.7E-08	2.1E-07	4.9E-07	7.2E-07	7.1E-07	4.6E-07	2.7E-07	1.6E-07	1.1E-07	7.5E-08	5.4E-08	4.1E-08	3.1E-08	2.5E-08	1.2E-08	1.3E-08	9.1E-09	2.6E-08	3.9E-08
2_1	127-18-4	Tetrachloroethene	8.88E-07	1.3E-11	7	1.3E-10	2.2E-10	4.2E-10	1.0E-09	2.4E-09	3.5E-09	3.5E-09	2.2E-09	1.3E-09	7.9E-10	5.2E-10	3.6E-10	2.6E-10	2.0E-10	1.5E-10	1.2E-10	5.9E-11	6.4E-11	4.4E-11	1.3E-10	1.9E-10
2_1	132-64-9	Dibenzofuran	6.15E-05	8.8E-10	7	9.3E-09	1.6E-08	2.9E-08	6.9E-08	1.7E-07	2.4E-07	2.4E-07	1.6E-07	9.0E-08	5.5E-08	3.6E-08	2.5E-08	1.8E-08	1.4E-08	1.1E-08	8.3E-09	4.1E-09	4.4E-09	3.1E-09	8.7E-09	1.3E-08
2_1	1653-40-3	6-METHYL-1,1-HEPTANOL	3.41E-03	4.9E-08	7	5.2E-07	8.6E-07	1.6E-06	3.9E-06	9.2E-06	1.3E-05	1.3E-05	8.6E-06	5.0E-06	3.0E-06	2.0E-06	1.4E-06	1.0E-06	7.6E-07	5.9E-07	4.6E-07	2.3E-07	2.5E-07	1.7E-07	4.8E-07	7.2E-07
2_1	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	3.76E-04	5.4E-09	7	5.7E-08	9.5E-08	1.8E-07	4.2E-07	1.0E-06	1.5E-06	1.5E-06	9.5E-07	5.5E-07	3.3E-07	2.2E-07	1.5E-07	1.1E-07	8.4E-08	6.5E-08	5.1E-08	2.5E-08	2.7E-08	1.9E-08	5.3E-08	7.9E-08
2_1	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	9.45E-04	1.4E-08	7	1.4E-07	2.4E-07	4.5E-07	1.1E-06	2.5E-06	3.7E-06	3.7E-06	2.4E-06	1.4E-06	8.4E-07	5.5E-07	3.9E-07	2.8E-07	2.1E-07	1.6E-07	1.3E-07	6.3E-08	6.8E-08	4.7E-08	1.3E-07	2.0E-07
2_1	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.67E-04	6.7E-09	7	7.0E-08	1.2E-07	2.2E-07	5.3E-07	1.3E-06	1.8E-06	1.8E-06	1.2E-06	6.8E-07	4.2E-07	2.7E-07	1.9E-07	1.4E-07	1.0E-07	8.1E-08	6.3E-08	3.1E-08	3.4E-08	2.3E-08	6.6E-08	9.9E-08
2_1	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.87E-04	5.6E-09	7	5.8E-08	9.8E-08	1.8E-07	4.4E-07	1.0E-06	1.5E-06	1.5E-06	9.8E-07	5.7E-07	3.5E-07	2.3E-07	1.6E-07	1.2E-07	8.6E-08	6.7E-08	5.3E-08	2.6E-08	2.8E-08	1.9E-08	5.5E-08	8.2E-08
2_1	26952-21-6	ISOOCTANOL	1.25E-03	1.8E-08	7	1.9E-07	3.2E-07	6.0E-07	1.4E-06	3.4E-06	4.9E-06	4.9E-06	3.2E-06	1.8E-06	1.1E-06	7.3E-07	5.1E-07	3.7E-07	2.8E-07	2.2E-07	1.7E-07	8.4E-08	9.0E-08	6.3E-08	1.8E-07	2.6E-07
2_1	2719-52-0	(1-METHYLBUTYL)BENZENE	6.94E-04	1.0E-08	7	1.0E-07	1.8E-07	3.3E-07	7.8E-07	1.9E-06	2.7E-06	2.7E-06	1.8E-06	1.0E-06	6.2E-07	4.1E-07	2.8E-07	2.1E-07	1.5E-07	1.2E-07	9.4E-08	4.6E-08	5.0E-08	3.5E-08	9.8E-08	1.5E-07
2_1	2883-05-8	2-CYCLOHEXYLDECANE	9.22E-04	1.3E-08	7	1.4E-07	2.3E-07	4.4E-07	1.0E-06	2.5E-06	3.6E-06	3.6E-06	2.3E-06	1.4E-06	8.2E-07	5.4E-07	3.8E-07	2.7E-07	2.1E-07	1.6E-07	1.3E-07	6.2E-08	6.6E-08	4.6E-08	1.3E-07	1.9E-07
2_1	33213-65-9	Endosulfan II	1.25E-06	1.8E-11	7	1.9E-10	3.2E-10	6.0E-10	1.4E-09	3.4E-09	4.9E-09	4.9E-09	3.2E-09	1.8E-09	1.1E-09	7.3E-10	5.1E-10	3.7E-10	2.8E-10	2.2E-10	1.7E-10	8.4E-11	9.0E-11	6.3E-11	1.8E-10	2.6E-10
2_1	3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.78E-04	6.9E-09	7	7.2E-08	1.2E-07	2.3E-07	5.4E-07	1.3E-06	1.9E-06	1.9E-06	1.2E-06	7.0E-07	4.3E-07	2.8E-07	2.0E-07	1.4E-07	1.1E-07	8.3E-08	6.5E-08	3.2E-08	3.4E-08	2.4E-08	6.8E-08	1.0E-07
2_1	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	3.07E-04	4.4E-09	7	4.6E-08	7.8E-08	1.5E-07	3.5E-07	8.3E-07	1.2E-06	1.2E-06	7.8E-07	4.5E-07	2.7E-07	1.8E-07	1.3E-07	9.1E-08	6.9E-08	5.3E-08	4.2E-08	2.1E-08	2.2E-08	1.5E-08	4.3E-08	6.5E-08
2_1	496-10-6	OCTAHYDROINDENE	3.53E-03	5.1E-08	7	5.3E-07	8.9E-07	1.7E-06	4.0E-06	9.5E-06	1.4E-05	1.4E-05	8.9E-06	5.2E-06	3.1E-06	2.1E-06	1.4E-06	1.1E-06	7.9E-07	6.1E-07	4.8E-07	2.4E-07	2.5E-07	1.8E-07	5.0E-07	7.5E-07
2_1	5103-74-2	GAMMA-CHLORDANE	1.94E-06	2.8E-11	7	2.9E-10	4.9E-10	9.2E-10	2.2E-09	5.2E-09	7.6E-09	7.5E-09	4.9E-09	2.8E-09	1.7E-09	1.1E-09	7.9E-10	5.8E-10	4.3E-10	3.3E-10	2.6E-10	1.3E-10	1.4E-10	9.7E-11	2.7E-10	4.1E-10
2_1	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	8.54E-04	1.2E-08	7	1.3E-07	2.2E-07	4.1E-07	9.6E-07	2.3E-06	3.4E-06	3.3E-06	2.2E-06	1.3E-06	7.6E-07	5.0E-07	3.5E-07	2.5E-07	1.9E-07	1.5E-07	1.2E-07	5.7E-08	6.2E-08	4.3E-08	1.2E-07	1.8E-07
2_1	53469-21-9	Aroclor 1242	4.78E-04	6.9E-09	7	7.2E-08	1.2E-07	2.3E-07	5.4E-07	1.3E-06	1.9E-06	1.9E-06	1.2E-06	7.0E-07	4.3E-07	2.8E-07	2.0E-07	1.4E-07	1.1E-07	8.3E-08	6.5E-08	3.2E-08	3.4E-08	2.4E-08	6.8E-08	1.0E-07
2_1	53494-70-5	Endrin ketone	3.41E-07	4.9E-12	7	5.2E-11	8.6E-11	1.6E-10	3.9E-10	9.2E-10	1.3E-09	1.3E-09	8.6E-10	5.0E-10	3.0E-10	2.0E-10	1.4E-10	1.0E-10	7.6E-11	5.9E-11	4.6E-11	2.3E-11	2.5E-11	1.7E-11	4.8E-11	7.2E-11
2_1	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.55E-03	6.5E-08	7	6.9E-07	1.2E-06	2.2E-06	5.1E-06	1.2E-05	1.8E-05	1.8E-05	1.2E-05	6.7E-06	4.1E-06	2.7E-06	1.9E-06	1.4E-06	1.0E-06	7.9E-07	6.2E-07	3.0E-07	3.3E-07	2.3E-07	6.4E-07	9.6E-07
2_1	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	2.05E-04	2.9E-09	7	3.1E-08	5.2E-08	9.8E-08	2.3E-07	5.5E-07	8.1E-07	8.0E-07	5.2E-07	3.0E-07	1.8E-07	1.2E-07	8.4E-08	6.1E-08	4.6E-08	3.5E-08	2.8E-08	1.4E-08	1.5E-08	1.0E-08	2.9E-08	4.3E-08
2_1	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	8.76E-04	1.3E-08	7	1.3E-07	2.2E-07	4.2E-07	9.9E-07	2.4E-06	3.5E-06	3.4E-06	2.2E-06	1.3E-06	7.8E-07	5.1E-07	3.6E-07	2.6E-07	2.0E-07	1.5E-07	1.2E-07	5.9E-08	6.3E-08	4.4E-08	1.2E-07	1.9E-07
2_1	591-78-6	2-Hexanone	3.87E-07	5.6E-12	7	5.8E-11	9.8E-11	1.8E-10	4.4E-10	1.0E-09	1.5E-09	1.5E-09	9.8E-10	5.7E-10	3.5E-10	2.3E-10	1.6E-10	1.2E-10	8.6E-11	6.7E-11	5.3E-11	2.6E-11	2.8E-11	1.9E-11	5.5E-11	8.2E-11
2_1	65-85-0	Benzoic acid	1.82E-05	2.6E-10	7	2.8E-09	4.6E-09	8.7E-09	2.1E-08	4.9E-08	7.2E-08	7.1E-08	4.6E-08	2.7E-08	1.6E-08	1.1E-08	7.5E-09	5.4E-09	4.1E-09	3.1E-09	2.5E-09	1.2E-09	1.3E-09	9.1E-10	2.6E-09	3.9E-09
2_1	67-66-3	Chloroform	2.85E-03	4.1E-08	7	4.3E-07	7.2E-07	1.4E-06	3.2E-06	7.7E-06	1.1E-05	1.1E-05	7.2E-06	4.2E-06	2.5E-06	1.7E-06	1.2E-06	8.5E-07	6.3E-07	4.9E-07	3.9E-07	1.9E-07	2.1E-07	1.4E-07	4.0E-07	6.0E-07
2_1	71-55-6	1,1,1-Trichloroethane	1.48E-03	2.1E-08	7	2.2E-07	3.7E-07	7.1E-07	1.7E-06	4.0E-06	5.8E-06	5.8E-06	3.7E-06	2.2E-06	1.3E-06	8.7E-07	6.1E-07	4.4E-07	3.3E-07	2.6E-07	2.0E-07	9.9E-08	1.1E-07	7.4E-08	2.1E-07	3.1E-07
2_1	75-34-3	1,1-Dichloroethane	7.97E-05	1.1E-09	7	1.2E-08	2.0E-08	3.8E-08	9.0E-08	2.1E-07	3.1E-07	3.1E-07	2.0E-07	1.2E-07	7.1E-08	4.7E-08	3.3E-08	2.4E-08	1.8E-08	1.4E-08	1.1E-08	5.3E-09	5.7E-09	4.0E-09	1.1E-08	1.7E-08
2_1	75-35-4	1,1-Dichloroethene	4.89E-07	7.0E-12	7	7.4E-11	1.2E-10	2.3E-10	5.5E-10	1.3E-09	1.9E-09	1.9E-09	1.2E-09	7.2E-10	4.4E-10	2.9E-10	2.0E-10	1.5E-10	1.1E-10	8.4E-11	6.6E-11	3.3E-11	3.5E-11	2.4E-11	6.9E-11	1.0E-10
2_1	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	9.79E-04	1.4E-08	7	1.5E-07	2.5E-07	4.7E-07	1.1E-06	2.6E-06	3.9E-06	3.8E-06	2.5E-06	1.4E-06	8.7E-07	5.7E-07	4.0E-07	2.9E-07	2.2E-07	1.7E-07	1.3E-07	6.5E-08	7.1E-08	4.9E-08	1.4E-07	2.1E-07
2_1	79-34-5	1,1,2,2-Tetrachloroethane	1.07E-05	1.5E-10	7	1.6E-09	2.7E-09	5.1E-09	1.2E-08	2.9E-08	4.2E-08	4.2E-08	2.7E-08	1.6E-08	9.5E-09	6.3E-09	4.4E-09	3.2E-09	2.4E-09	1.8E-09	1.5E-09	7.2E-10	7.7E-10	5.4E-10	1.5E-09	2.3E-09
2_1	87-61-6	1,2,3-Trichlorobenzene	1.48E-07	2.1E-12	7	2.2E-11	3.7E-11	7.1E-11	1.7E-10	4.0E-10	5.8E-10	5.8E-10	3.7E-10	2.2E-10	1.3E-10	8.7E-11	6.1E-11	4.4E-11	3.3E-11	2.6E-11	2.0E-11	9.9E-12	1.1E-11	7.4E-12	2.1E-11	3.1E-11
2_1	91-17-8	DECAHYDRONAPHTHALENE	1.71E-03	2.5E-08	7	2.6E-07	4.3E-07	8.2E-07	1.9E-06	4.6E-06	6.7E-06	6.7E-06	4.3E-06	2.5E-06	1.5E-06	1.0E-06	7.0E-07	5.1E-07	3.8E-07	2.9E-07	2.3E-07	1.1E-07	1.2E-07	8.5E-08	2.4E-07	3.6E-07
2_1	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.28E-04	3.3E-09	7	3.4E-08	5.8E-08	1.1E-07	2.6E-07	6.1E-07	9.0E-07	8.9E-07	5.8E-07	3.3E-07	2.0E-07	1.3E-07	9.3E-08	6.8E-08	5.1E-08	3.9E-08	3.1E-08	1.5E-08	1.6E-08	1.1E-08	3.2E-08	4.8E-08
2_1	96-12-8	1,2-Dibromo-3-Chloropropane	6.72E-07	9.7E-12	7	1.0E-10	1.7E-10	3.2E-10	7.6E-10	1.8E-09	2.6E-09	2.6E-09	1.7E-09	9.9E-10	6.0E-10	3.9E-10	2.8E-10	2.0E-10	1.5E-10	1.2E-10	9.1E-11	4.5E-11	4.8E-11	3.4E-11	9.5E-11	1.4E-10
2_1	98-06-6	tert-Butylbenzene	3.07E-07	4.4E-12	7	4.6E-11	7.8E-11	1.5E-10	3.5E-10	8.3E-10	1.2E-09	1.2E-09	7.8E-10	4.5E-10	2.7E-10	1.8E-10	1.3E-10	9.1E-11	6.9E-11	5.3E-11	4.2E-11	2.1E-11	2.2E-11	1.5E-11	4.3E-11	6.5E-11
2_2	100-41-4	Ethylbenzene	2.39E-05	3.4E-10	8	6.5E-10	7.3E-10	7.7E-10	7.8E-10	8.3E-10	1.1E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	9.4E-10	8.4E-10	5.5E-10	5.8E-10	4.4E-10	9.2E-10	1.2E-09
2_2	100-42-5	Styrene	2.78E-04	4.0E-09	8	7.5E-09	8.4E-09	8.9E-09	9.1E-09	9.6E-09	1.2E-08	1.5E-08	1.5E-08	1.6E-08	1.5E-08	1.5E-08	1.4E-08	1.3E-08	1.2E-08	1.1E-08	9.7E-09	6.4E-09	6.8E-09	5.1E-09	1.1E-08	1.3E-08
2_2	135-98-8	(1-METHYLPROPYL)BENZENE	2.68E-04	3.9E-09	8	7.3E-09	8.1E-09	8.6E-09	8.8E-09	9.3E-09	1.2E-08	1.4E-08	1.5E-08	1.5E-08	1.5E-08	1.4E-08	1.4E-08	1.3E-08	1.2E-08	1.0E-08	9.4E-09	6.2E-09	6.6E-09	5.0E-09	1.0E-08	1.3E-08
2_2	67-64-1	2-PROPANONE	9.09E-06	1.3E-10	8	2.5E-10	2.8E-10	2.9E-10	3.0E-10	3.2E-10	4.1E-10	4.9E-10	5.1E-10	5.1E-10	5.0E-10	4.8E-10	4.6E-10	4.3E-10	4.0E-10	3.6E-10	3.2E-10	2.1E-10	2.2E-10	1.7E-10	3.5E-10	4.4E-10
2_2	78-93-3	2-Butanone	4.12E-05	5.9E-10	8	1.1E-09	1.2E-09	1.3E-09	1.3E-09	1.4E-09	1.9E-09	2.2E-09	2.3E-09	2.3E-09	2.3E-09	2.2E-09	2.1E-09	2.0E-09	1.8E-09	1.6E-09	1.4E-09	9.5E-10	1.0E-09	7.6E-10	1.6E-09	2.0E-09
2_2	85-01-8	Phenanthrene	5.26E-01	7.6E-06	8	1.4E-05	1.6E-05	1.7E-05	1.7E-05	1.8E-05	2.4E-05	2.8E-05	2.9E-05	3.0E-05	2.9E-05	2.8E-05	2.7E-05	2.5E-05	2.3E-05	2.1E-05	1.8E-05	1.2E-05	1.3E-05	9.8E-06	2.0E-05	2.5E-05
2_2	91-20-3	Naphthalene	1.63E-03	2.3E-08	8	4.4E-08	4.9E-08	5.2E-08	5.3E-08	5.6E-08	7.3E-08	8.7E-08	9.1E-08	9.2E-08	9.0E-08	8.6E-08	8.2E-08	7.7E-08	7.1E-08	6.4E-08	5.7E-08	3.8E-08	4.0E-08	3.0E-08	6.2E-08	7.8E-08
2_2	95-63-6	1,2,4-Trimethylbenzene	2.39E-05	3.4E-10	8	6.5E-10	7.3E-10	7.7E-10	7.8E-10	8.3E-10	1.1E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	9.4E-10	8.4E-10	5.5E-10	5.8E-10	4.4E-10	9.2E-10	1.2E-09
3	100-41-4	Ethylbenzene	4.30E-02	6.2E-07	9	1.2E-06	1.5E-06	1.8E-06	2.1E-06	2.6E-06	3.3E-06	4.1E-06	5.1E-06	6.2E-06	7.6E-06	9.8E-06	1.4E-05	2.3E-05	2.9E-05	3.1E-05	2.9E-05	9.4E-06	7.3E-06	6.4E-06	1.1E-05	9.8E-06
3	100-42-5	Styrene	2.70E-02	3.9E-07	9	7.6E-07	9.2E-07	1.1E-06	1.3E-06	1.7E-06	2.1E-06	2.6E-06	3.2E-06	3.9E-06	4.8E-06	6.2E-06	9.0E-06	1.4E-05	1.8E-05	2.0E-05	1.8E-05	5.9E-06	4.6E-06	4.0E-06	7.0E-06	6.2E-06
3	103-65-1	n-Propylbenzene	5.29E-03	7.6E-08	9	1.5E-07	1.8E-07	2.2E-07	2.6E-07	3.3E-07	4.0E-07	5.0E-07	6.3E-07	7.6E-07	9.4E-07	1.2E-06	1.8E-06	2.8E-06	3.5E-06	3.8E-06	3.6E-06	1.2E-06	9.0E-07	7.8E-07	1.4E-06	1.2E-06
3	104-51-8	n-Butylbenzene	9.54E-04	1.4E-08	9	2.7E-08	3.2E-08	3.9E-08	4.8E-08	5.9E-08	7.3E-08	9.1E-08	1.1E-07	1.4E-07	1.7E-07	2.2E-07	3.2E-07	5.0E-07	6.3E-07	6.9E-07	6.5E-07	2.1E-07	1.6E-07	1.4E-07	2.5E-07	2.2E-07
3	108-67-8	1,3,5-Trimethylbenzene	2.97E-03	4.3E-08	9	8.4E-08	1.0E-07	1.2E-07	1.5E-07	1.8E-07	2.3E-07	2.8E-07	3.5E-07	4.3E-07	5.2E-07	6.8E-07	9.9E-07	1.6E-06	2.0E-06	2.1E-06	2.0E-06	6.5E-07	5.0E-07	4.4E-07	7.7E-07	6.8E-07
3	108-88-3	Toluene	3.22E-03	4.6E-08	9	9.1E-08	1.1E-07	1.3E-07	1.6E-07	2.0E-07	2.5E-07	3.1E-07	3.8E-07	4.6E-07	5.7E-07	7.4E-07	1.1E-06	1.7E-06	2.1E-06	2.3E-06	2.2E-06	7.0E-07	5.5E-07	4.8E-07	8.4E-07	7.4E-07
3	11096-82-5	Aroclor 1260	2.84E-04	4.1E-09	9	8.0E-09	9.7E-09	1.2E-08	1.4E-08	1.7E-08	2.2E-08	2.7E-08	3.4E-08	4.1E-08	5.0E-08	6.5E-08	9.5E-08	1.5E-07	1.9E-07	2.1E-07	1.9E-07	6.2E-08	4.8E-08	4.2E-08	7.4E-08	6.5E-08
3	120-12-7	Anthracene	2.64E-03	3.8E-08	9	7.4E-08	9.0E-08	1.1E-07	1.3E-07	1.6E-07	2.0E-07	2.5E-07	3.1E-07	3.8E-07	4.7E-07	6.0E-07	8.8E-07	1.4E-06	1.8E-06	1.9E-06	1.8E-06	5.8E-07	4.5E-07	3.9E-07	6.9E-07	6.0E-07
3	129-00-0	Pyrene	8.38E-04	1.2E-08	9	2.4E-08	2.8E-08	3.4E-08	4.2E-08	5.1E-08	6.4E-08	8.0E-08	9.9E-08	1.2E-07	1.5E-07	1.9E-07	2.8E-07	4.4E-07	5.6E-07	6.1E-07	5.7E-07	1.8E-07	1.4E-07	1.2E-07	2.2E-07	1.9E-07
3	1330-20-7	XYLENES (TOTAL)	1.63E-02	2.4E-07	9	4.6E-07	5.5E-07	6.7E-07	8.2E-07	1.0E-06	1.3E-06	1.6E-06	1.9E-06	2.4E-06	2.9E-06	3.7E-06	5.5E-06	8.6E-06	1.1E-05	1.2E-05	1.1E-05	3.6E-06	2.8E-06	2.4E-06	4.3E-06	3.7E-06

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3	135-98-8	(1-METHYLPROPYL)BENZENE	2.34E-02	3.4E-07	9	6.6E-07	8.0E-07	9.6E-07	1.2E-06	1.4E-06	1.8E-06	2.2E-06	2.8E-06	3.4E-06	4.1E-06	5.4E-06	7.8E-06	1.2E-05	1.6E-05	1.7E-05	1.6E-05	5.1E-06	4.0E-06	3.5E-06	6.1E-06	5.4E-06
3	179601-23-1	m,p-Xylenes	7.32E-03	1.1E-07	9	2.1E-07	2.5E-07	3.0E-07	3.7E-07	4.5E-07	5.6E-07	7.0E-07	8.7E-07	1.1E-06	1.3E-06	1.7E-06	2.4E-06	3.8E-06	4.9E-06	5.3E-06	5.0E-06	1.6E-06	1.2E-06	1.1E-06	1.9E-06	1.7E-06
3	67-64-1	2-PROPANONE	6.26E-03	9.0E-08	9	1.8E-07	2.1E-07	2.6E-07	3.1E-07	3.8E-07	4.8E-07	6.0E-07	7.4E-07	9.0E-07	1.1E-06	1.4E-06	2.1E-06	3.3E-06	4.2E-06	4.5E-06	4.3E-06	1.4E-06	1.1E-06	9.3E-07	1.6E-06	1.4E-06
3	71-43-2	Benzene	2.02E-03	2.9E-08	9	5.7E-08	6.9E-08	8.3E-08	1.0E-07	1.2E-07	1.5E-07	1.9E-07	2.4E-07	2.9E-07	3.6E-07	4.6E-07	6.7E-07	1.1E-06	1.3E-06	1.5E-06	1.4E-06	4.4E-07	3.4E-07	3.0E-07	5.3E-07	4.6E-07
3	7421-93-4	Endrin aldehyde	6.67E-06	9.6E-11	9	1.9E-10	2.3E-10	2.7E-10	3.3E-10	4.1E-10	5.1E-10	6.3E-10	7.9E-10	9.6E-10	1.2E-09	1.5E-09	2.2E-09	3.5E-09	4.4E-09	4.8E-09	4.5E-09	1.5E-09	1.1E-09	9.9E-10	1.7E-09	1.5E-09
3	7439-98-7	Molybdenum	5.98E-03	8.6E-08	9	1.7E-07	2.0E-07	2.5E-07	3.0E-07	3.7E-07	4.6E-07	5.7E-07	7.1E-07	8.6E-07	1.1E-06	1.4E-06	2.0E-06	3.1E-06	4.0E-06	4.3E-06	4.1E-06	1.3E-06	1.0E-06	8.9E-07	1.6E-06	1.4E-06
3	75-09-2	Methylene Chloride	2.74E-03	3.9E-08	9	7.7E-08	9.3E-08	1.1E-07	1.4E-07	1.7E-07	2.1E-07	2.6E-07	3.2E-07	3.9E-07	4.8E-07	6.3E-07	9.1E-07	1.4E-06	1.8E-06	2.0E-06	1.9E-06	6.0E-07	4.6E-07	4.1E-07	7.1E-07	6.3E-07
3	75-69-4	Trichlorofluoromethane	9.17E-04	1.3E-08	9	2.6E-08	3.1E-08	3.8E-08	4.6E-08	5.6E-08	7.0E-08	8.7E-08	1.1E-07	1.3E-07	1.6E-07	2.1E-07	3.1E-07	4.8E-07	6.1E-07	6.6E-07	6.3E-07	2.0E-07	1.6E-07	1.4E-07	2.4E-07	2.1E-07
3	78-93-3	2-Butanone	1.78E-03	2.6E-08	9	5.0E-08	6.0E-08	7.3E-08	8.9E-08	1.1E-07	1.4E-07	1.7E-07	2.1E-07	2.6E-07	3.1E-07	4.1E-07	5.9E-07	9.3E-07	1.2E-06	1.3E-06	1.2E-06	3.9E-07	3.0E-07	2.6E-07	4.6E-07	4.1E-07
3	83-32-9	Acenaphthene	6.83E-04	9.8E-09	9	1.9E-08	2.3E-08	2.8E-08	3.4E-08	4.2E-08	5.2E-08	6.5E-08	8.1E-08	9.8E-08	1.2E-07	1.6E-07	2.3E-07	3.6E-07	4.5E-07	4.9E-07	4.7E-07	1.5E-07	1.2E-07	1.0E-07	1.8E-07	1.6E-07
3	85-01-8	Phenanthrene	2.57E-01	3.7E-06	9	7.2E-06	8.7E-06	1.1E-05	1.3E-05	1.6E-05	2.0E-05	2.4E-05	3.0E-05	3.7E-05	4.5E-05	5.9E-05	8.6E-05	1.3E-04	1.7E-04	1.9E-04	1.8E-04	5.6E-05	4.4E-05	3.8E-05	6.7E-05	5.9E-05
3	86-73-7	Fluorene	4.14E-03	6.0E-08	9	1.2E-07	1.4E-07	1.7E-07	2.1E-07	2.5E-07	3.2E-07	3.9E-07	4.9E-07	6.0E-07	7.3E-07	9.5E-07	1.4E-06	2.2E-06	2.8E-06	3.0E-06	2.8E-06	9.1E-07	7.0E-07	6.1E-07	1.1E-06	9.5E-07
3	91-20-3	Naphthalene	3.22E-02	4.6E-07	9	9.1E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.1E-06	3.8E-06	4.6E-06	5.7E-06	7.4E-06	1.1E-05	1.7E-05	2.1E-05	2.3E-05	2.2E-05	7.0E-06	5.5E-06	4.8E-06	8.4E-06	7.4E-06
3	91-57-6	2-Methylnaphthalene	1.40E-02	2.0E-07	9	3.9E-07	4.7E-07	5.7E-07	7.0E-07	8.6E-07	1.1E-06	1.3E-06	1.7E-06	2.0E-06	2.5E-06	3.2E-06	4.7E-06	7.3E-06	9.3E-06	1.0E-05	9.5E-06	3.1E-06	2.4E-06	2.1E-06	3.6E-06	3.2E-06
3	95-47-6	o-Xylene	3.51E-03	5.0E-08	9	9.9E-08	1.2E-07	1.4E-07	1.8E-07	2.2E-07	2.7E-07	3.3E-07	4.1E-07	5.0E-07	6.2E-07	8.0E-07	1.2E-06	1.8E-06	2.3E-06	2.5E-06	2.4E-06	7.7E-07	6.0E-07	5.2E-07	9.1E-07	8.0E-07
3	95-50-1	1,2-Dichlorobenzene	5.15E-04	7.4E-09	9	1.5E-08	1.7E-08	2.1E-08	2.6E-08	3.2E-08	3.9E-08	4.9E-08	6.1E-08	7.4E-08	9.1E-08	1.2E-07	1.7E-07	2.7E-07	3.4E-07	3.7E-07	3.5E-07	1.1E-07	8.7E-08	7.6E-08	1.3E-07	1.2E-07
3	95-63-6	1,2,4-Trimethylbenzene	9.03E-03	1.3E-07	9	2.5E-07	3.1E-07	3.7E-07	4.5E-07	5.5E-07	6.9E-07	8.6E-07	1.1E-06	1.3E-06	1.6E-06	2.1E-06	3.0E-06	4.7E-06	6.0E-06	6.5E-06	6.2E-06	2.0E-06	1.5E-06	1.3E-06	2.4E-06	2.1E-06
3	98-82-8	1-METHYLETHYLBENZENE	2.62E-02	3.8E-07	9	7.4E-07	8.9E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.1E-06	3.8E-06	4.6E-06	6.0E-06	8.7E-06	1.4E-05	1.7E-05	1.9E-05	1.8E-05	5.7E-06	4.4E-06	3.9E-06	6.8E-06	6.0E-06
3	10042-59-8	2-PROPYL-1-HEPTANOL	6.27E-02	9.0E-07	9	1.8E-06	2.1E-06	2.6E-06	3.1E-06	3.9E-06	4.8E-06	6.0E-06	7.4E-06	9.0E-06	1.1E-05	1.4E-05	2.1E-05	3.3E-05	4.2E-05	4.5E-05	4.3E-05	1.4E-05	1.1E-05	9.3E-06	1.6E-05	1.4E-05
3	1031-07-8	Endosulfan sulfate	1.42E-05	2.0E-10	9	4.0E-10	4.8E-10	5.8E-10	7.1E-10	8.7E-10	1.1E-09	1.4E-09	1.7E-09	2.0E-09	2.5E-09	3.2E-09	4.7E-09	7.4E-09	9.4E-09	1.0E-08	9.7E-09	3.1E-09	2.4E-09	2.1E-09	3.7E-09	3.2E-09
3	106-42-3	P-XYLENE	1.29E-03	1.9E-08	9	3.6E-08	4.4E-08	5.3E-08	6.4E-08	7.9E-08	9.8E-08	1.2E-07	1.5E-07	1.9E-07	2.3E-07	2.9E-07	4.3E-07	6.8E-07	8.6E-07	9.3E-07	8.8E-07	2.8E-07	2.2E-07	1.9E-07	3.4E-07	2.9E-07
3	106-43-4	4-Chlorotoluene	3.96E-03	5.7E-08	9	1.1E-07	1.3E-07	1.6E-07	2.0E-07	2.4E-07	3.0E-07	3.8E-07	4.7E-07	5.7E-07	7.0E-07	9.1E-07	1.3E-06	2.1E-06	2.6E-06	2.9E-06	2.7E-06	8.7E-07	6.7E-07	5.9E-07	1.0E-06	9.1E-07
3	106-46-7	1,4-Dichlorobenzene	7.59E-04	1.1E-08	9	2.1E-08	2.6E-08	3.1E-08	3.8E-08	4.7E-08	5.8E-08	7.2E-08	9.0E-08	1.1E-07	1.3E-07	1.7E-07	2.5E-07	4.0E-07	5.0E-07	5.5E-07	5.2E-07	1.7E-07	1.3E-07	1.1E-07	2.0E-07	1.7E-07
3	106-93-4	1,2-Dibromoethane	2.01E-05	2.9E-10	9	5.7E-10	6.8E-10	8.3E-10	1.0E-09	1.2E-09	1.5E-09	1.9E-09	2.4E-09	2.9E-09	3.6E-09	4.6E-09	6.7E-09	1.1E-08	1.3E-08	1.5E-08	1.4E-08	4.4E-09	3.4E-09	3.0E-09	5.2E-09	4.6E-09
3	107-06-2	1,2-Dichloroethane	3.30E-02	4.7E-07	9	9.3E-07	1.1E-06	1.4E-06	1.6E-06	2.0E-06	2.5E-06	3.1E-06	3.9E-06	4.7E-06	5.8E-06	7.5E-06	1.1E-05	1.7E-05	2.2E-05	2.4E-05	2.2E-05	7.2E-06	5.6E-06	4.9E-06	8.6E-06	7.5E-06
3	108-38-3	M-XYLENE	8.91E-02	1.3E-06	9	2.5E-06	3.0E-06	3.7E-06	4.4E-06	5.5E-06	6.8E-06	8.5E-06	1.1E-05	1.3E-05	1.6E-05	2.0E-05	3.0E-05	4.7E-05	5.9E-05	6.4E-05	6.1E-05	1.9E-05	1.5E-05	1.3E-05	2.3E-05	2.0E-05
3	108-90-7	Chlorobenzene	2.18E-02	3.1E-07	9	6.1E-07	7.4E-07	8.9E-07	1.1E-06	1.3E-06	1.7E-06	2.1E-06	2.6E-06	3.1E-06	3.9E-06	5.0E-06	7.3E-06	1.1E-05	1.4E-05	1.6E-05	1.5E-05	4.8E-06	3.7E-06	3.2E-06	5.7E-06	5.0E-06
3	11097-69-1	Aroclor 1254	2.01E-02	2.9E-07	9	5.7E-07	6.8E-07	8.3E-07	1.0E-06	1.2E-06	1.5E-06	1.9E-06	2.4E-06	2.9E-06	3.6E-06	4.6E-06	6.7E-06	1.1E-05	1.3E-05	1.5E-05	1.4E-05	4.4E-06	3.4E-06	3.0E-06	5.2E-06	4.6E-06
3	120-82-1	1,2,4-Trichlorobenzene	3.30E-06	4.7E-11	9	9.3E-11	1.1E-10	1.4E-10	1.6E-10	2.0E-10	2.5E-10	3.1E-10	3.9E-10	4.7E-10	5.8E-10	7.5E-10	1.1E-09	1.7E-09	2.2E-09	2.4E-09	2.2E-09	7.2E-10	5.6E-10	4.9E-10	8.6E-10	7.5E-10
3	12672-29-6	Aroclor 1248	1.72E-02	2.5E-07	9	4.8E-07	5.8E-07	7.0E-07	8.6E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.0E-06	3.9E-06	5.7E-06	9.0E-06	1.1E-05	1.2E-05	1.2E-05	3.8E-06	2.9E-06	2.5E-06	4.5E-06	3.9E-06
3	12674-11-2	Aroclor 1016	5.28E-03	7.6E-08	9	1.5E-07	1.8E-07	2.2E-07	2.6E-07	3.2E-07	4.0E-07	5.0E-07	6.2E-07	7.6E-07	9.3E-07	1.2E-06	1.8E-06	2.8E-06	3.5E-06	3.8E-06	3.6E-06	1.2E-06	9.0E-07	7.8E-07	1.4E-06	1.2E-06
3	127-18-4	Tetrachloroethene	2.57E-05	3.7E-10	9	7.3E-10	8.7E-10	1.1E-09	1.3E-09	1.6E-09	2.0E-09	2.5E-09	3.0E-09	3.7E-09	4.6E-09	5.9E-09	8.6E-09	1.4E-08	1.7E-08	1.9E-08	1.8E-08	5.6E-09	4.4E-09	3.8E-09	6.7E-09	5.9E-09
3	132-64-9	Dibenzofuran	1.78E-03	2.6E-08	9	5.0E-08	6.0E-08	7.3E-08	8.9E-08	1.1E-07	1.4E-07	1.7E-07	2.1E-07	2.6E-07	3.2E-07	4.1E-07	5.9E-07	9.4E-07	1.2E-06	1.3E-06	1.2E-06	3.9E-07	3.0E-07	2.6E-07	4.6E-07	4.1E-07
3	1653-40-3	6-METHYL-1,1-HEPTANOL	9.90E-02	1.4E-06	9	2.8E-06	3.4E-06	4.1E-06	4.9E-06	6.1E-06	7.6E-06	9.4E-06	1.2E-05	1.4E-05	1.8E-05	2.3E-05	3.3E-05	5.2E-05	6.6E-05	7.2E-05	6.7E-05	2.2E-05	1.7E-05	1.5E-05	2.6E-05	2.3E-05
3	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.09E-02	1.6E-07	9	3.1E-07	3.7E-07	4.5E-07	5.4E-07	6.7E-07	8.3E-07	1.0E-06	1.3E-06	1.6E-06	1.9E-06	2.5E-06	3.6E-06	5.7E-06	7.2E-06	7.9E-06	7.4E-06	2.4E-06	1.8E-06	1.6E-06	2.8E-06	2.5E-06
3	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.74E-02	3.9E-07	9	7.7E-07	9.3E-07	1.1E-06	1.4E-06	1.7E-06	2.1E-06	2.6E-06	3.2E-06	3.9E-06	4.8E-06	6.3E-06	9.1E-06	1.4E-05	1.8E-05	2.0E-05	1.9E-05	6.0E-06	4.6E-06	4.1E-06	7.1E-06	6.3E-06
3	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.35E-02	1.9E-07	9	3.8E-07	4.6E-07	5.5E-07	6.8E-07	8.3E-07	1.0E-06	1.3E-06	1.6E-06	1.9E-06	2.4E-06	3.1E-06	4.5E-06	7.1E-06	9.0E-06	9.8E-06	9.2E-06	3.0E-06	2.3E-06	2.0E-06	3.5E-06	3.1E-06
3	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.12E-02	1.6E-07	9	3.2E-07	3.8E-07	4.6E-07	5.6E-07	6.9E-07	8.6E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.6E-06	3.7E-06	5.9E-06	7.5E-06	8.1E-06	7.6E-06	2.5E-06	1.9E-06	1.7E-06	2.9E-06	2.6E-06
3	26952-21-6	ISOOCTANOL	3.63E-02	5.2E-07	9	1.0E-06	1.2E-06	1.5E-06	1.8E-06	2.2E-06	2.8E-06	3.5E-06	4.3E-06	5.2E-06	6.4E-06	8.3E-06	1.2E-05	1.9E-05	2.4E-05	2.6E-05	2.5E-05	7.9E-06	6.2E-06	5.4E-06	9.4E-06	8.3E-06
3	2719-52-0	(1-METHYLBUTYL)BENZENE	2.01E-02	2.9E-07	9	5.7E-07	6.8E-07	8.3E-07	1.0E-06	1.2E-06	1.5E-06	1.9E-06	2.4E-06	2.9E-06	3.6E-06	4.6E-06	6.7E-06	1.1E-05	1.3E-05	1.5E-05	1.4E-05	4.4E-06	3.4E-06	3.0E-06	5.2E-06	4.6E-06
3	2883-05-8	2-CYCLOHEXYLDECANE	2.67E-02	3.8E-07	9	7.5E-07	9.1E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.2E-06	3.8E-06	4.7E-06	6.1E-06	8.9E-06	1.4E-05	1.8E-05	1.9E-05	1.8E-05	5.8E-06	4.5E-06	4.0E-06	7.0E-06	6.1E-06
3	33213-65-9	Endosulfan II	3.63E-05	5.2E-10	9	1.0E-09	1.2E-09	1.5E-09	1.8E-09	2.2E-09	2.8E-09	3.5E-09	4.3E-09	5.2E-09	6.4E-09	8.3E-09	1.2E-08	1.9E-08	2.4E-08	2.6E-08	2.5E-08	7.9E-09	6.2E-09	5.4E-09	9.4E-09	8.3E-09
3	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.39E-02	2.0E-07	9	3.9E-07	4.7E-07	5.7E-07	6.9E-07	8.5E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.2E-06	4.6E-06	7.3E-06	9.2E-06	1.0E-05	9.4E-06	3.0E-06	2.4E-06	2.1E-06	3.6E-06	3.2E-06
3	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	8.91E-03	1.3E-07	9	2.5E-07	3.0E-07	3.7E-07	4.4E-07	5.5E-07	6.8E-07	8.5E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	3.0E-06	4.7E-06	5.9E-06	6.4E-06	6.1E-06	1.9E-06	1.5E-06	1.3E-06	2.3E-06	2.0E-06
3	496-10-6	OCTAHYDROINDENE	1.02E-01	1.5E-06	9	2.9E-06	3.5E-06	4.2E-06	5.1E-06	6.3E-06	7.8E-06	9.7E-06	1.2E-05	1.5E-05	1.8E-05	2.3E-05	3.4E-05	5.4E-05	6.8E-05	7.4E-05	7.0E-05	2.2E-05	1.7E-05	1.5E-05	2.7E-05	2.3E-05
3	5103-74-2	GAMMA-CHLORDANE	5.61E-05	8.1E-10	9	1.6E-09	1.9E-09	2.3E-09	2.8E-09	3.4E-09	4.3E-09	5.3E-09	6.6E-09	8.1E-09	9.9E-09	1.3E-08	1.9E-08	2.9E-08	3.7E-08	4.1E-08	3.8E-08	1.2E-08	9.5E-09	8.3E-09	1.5E-08	1.3E-08
3	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.48E-02	3.6E-07	9	7.0E-07	8.4E-07	1.0E-06	1.2E-06	1.5E-06	1.9E-06	2.4E-06	2.9E-06	3.6E-06	4.4E-06	5.7E-06	8.3E-06	1.3E-05	1.6E-05	1.8E-05	1.7E-05	5.4E-06	4.2E-06	3.7E-06	6.4E-06	5.7E-06
3	53469-21-9	Aroclor 1242	1.39E-02	2.0E-07	9	3.9E-07	4.7E-07	5.7E-07	6.9E-07	8.5E-07	1.1E-06	1.3E-06	1.6E-06	2.0E-06	2.5E-06	3.2E-06	4.6E-06	7.3E-06	9.2E-06	1.0E-05	9.4E-06	3.0E-06	2.4E-06	2.1E-06	3.6E-06	3.2E-06
3	53494-70-5	Endrin ketone	9.90E-06	1.4E-10	9	2.8E-10	3.4E-10	4.1E-10	4.9E-10	6.1E-10	7.6E-10	9.4E-10	1.2E-09	1.4E-09	1.8E-09	2.3E-09	3.3E-09	5.2E-09	6.6E-09	7.2E-09	6.7E-09	2.2E-09	1.7E-09	1.5E-09	2.6E-09	2.3E-09
3	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.32E-01	1.9E-06	9	3.7E-06	4.5E-06	5.4E-06	6.6E-06	8.1E-06	1.0E-05	1.3E-05	1.6E-05	1.9E-05	2.3E-05	3.0E-05	4.4E-05	6.9E-05	8.8E-05	9.5E-05	9.0E-05	2.9E-05	2.2E-05	2.0E-05	3.4E-05	3.0E-05
3	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	5.94E-03	8.5E-08	9	1.7E-07	2.0E-07	2.4E-07	3.0E-07	3.6E-07	4.5E-07	5.7E-07	7.0E-07	8.5E-07	1.1E-06	1.4E-06	2.0E-06	3.1E-06	3.9E-06	4.3E-06	4.0E-06	1.3E-06	1.0E-06	8.8E-07	1.5E-06	1.4E-06
3	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.54E-02	3.7E-07	9	7.2E-07	8.6E-07	1.0E-06	1.3E-06	1.6E-06	1.9E-06	2.4E-06	3.0E-06	3.7E-06	4.5E-06	5.8E-06	8.5E-06	1.3E-05	1.7E-05	1.8E-05	1.7E-05	5.6E-06	4.3E-06	3.8E-06	6.6E-06	5.8E-06
3	591-78-6	2-Hexanone	1.12E-05	1.6E-10	9	3.2E-10	3.8E-10	4.6E-10	5.6E-10	6.9E-10	8.6E-10	1.1E-09	1.3E-09	1.6E-09	2.0E-09	2.6E-09	3.7E-09	5.9E-09	7.5E-09	8.1E-09	7.6E-09	2.5E-09	1.9E-09	1.7E-09	2.9E-09	2.6E-09
3	65-85-0	Benzoic acid	5.28E-04	7.6E-09	9	1.5E-08	1.8E-08	2.2E-08	2.6E-08	3.2E-08	4.0E-08	5.0E-08	6.2E-08	7.6E-08	9.3E-08	1.2E-07	1.8E-07	2.8E-07	3.5E-07	3.8E-07	3.6E-07	1.2E-07	9.0E-08	7.8E-08	1.4E-07	1.2E-07
3	67-66-3	Chloroform	8.25E-02	1.2E-06	9	2.3E-06	2.8E-06	3.4E-06	4.1E-06	5.1E-06	6.3E-06	7.9E-06	9.8E-06	1.2E-05	1.5E-05	1.9E-05	2.8E-05	4.3E-05	5.5E-05	6.0E-05	5.6E-05	1.8E-05	1.4E-05	1.2E-05	2.1E-05	1.9E-05
3	71-55-6	1,1,1-Trichloroethane	4.29E-02	6.2E-07	9	1.2E-06	1.5E-06	1.8E-06	2.1E-06	2.6E-06	3.3E-06	4.1E-06	5.1E-06	6.2E-06	7.6E-06	9.8E-06	1.4E-05	2.3E-05	2.9E-05	3.1E-05	2.9E-05	9.4E-06	7.3E-06	6.4E-06	1.1E-05	9.8E-06

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
3	75-34-3	1,1-Dichloroethane	2.31E-03	3.3E-08	9	6.5E-08	7.8E-08	9.5E-08	1.2E-07	1.4E-07	1.8E-07	2.2E-07	2.7E-07	3.3E-07	4.1E-07	5.3E-07	7.7E-07	1.2E-06	1.5E-06	1.7E-06	1.6E-06	5.0E-07	3.9E-07	3.4E-07	6.0E-07	5.3E-07
3	75-35-4	1,1-Dichloroethene	1.42E-05	2.0E-10	9	4.0E-10	4.8E-10	5.8E-10	7.1E-10	8.7E-10	1.1E-09	1.4E-09	1.7E-09	2.0E-09	2.5E-09	3.2E-09	4.7E-09	7.4E-09	9.4E-09	1.0E-08	9.7E-09	3.1E-09	2.4E-09	2.1E-09	3.7E-09	3.2E-09
3	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.84E-02	4.1E-07	9	8.0E-07	9.6E-07	1.2E-06	1.4E-06	1.7E-06	2.2E-06	2.7E-06	3.4E-06	4.1E-06	5.0E-06	6.5E-06	9.5E-06	1.5E-05	1.9E-05	2.1E-05	1.9E-05	6.2E-06	4.8E-06	4.2E-06	7.4E-06	6.5E-06
3	79-34-5	1,1,2,2-Tetrachloroethane	3.10E-04	4.5E-09	9	8.7E-09	1.1E-08	1.3E-08	1.5E-08	1.9E-08	2.4E-08	3.0E-08	3.7E-08	4.5E-08	5.5E-08	7.1E-08	1.0E-07	1.6E-07	2.1E-07	2.2E-07	2.1E-07	6.8E-08	5.3E-08	4.6E-08	8.1E-08	7.1E-08
3	87-61-6	1,2,3-Trichlorobenzene	4.29E-06	6.2E-11	9	1.2E-10	1.5E-10	1.8E-10	2.1E-10	2.6E-10	3.3E-10	4.1E-10	5.1E-10	6.2E-10	7.6E-10	9.8E-10	1.4E-09	2.3E-09	2.9E-09	3.1E-09	2.9E-09	9.4E-10	7.3E-10	6.4E-10	1.1E-09	9.8E-10
3	91-17-8	DECAHYDRONAPHTHALENE	4.95E-02	7.1E-07	9	1.4E-06	1.7E-06	2.0E-06	2.5E-06	3.0E-06	3.8E-06	4.7E-06	5.9E-06	7.1E-06	8.8E-06	1.1E-05	1.7E-05	2.6E-05	3.3E-05	3.6E-05	3.4E-05	1.1E-05	8.4E-06	7.3E-06	1.3E-05	1.1E-05
3	941-60-6	1,1,4-6-TETRAMETHYLINDANE	6.60E-03	9.5E-08	9	1.9E-07	2.2E-07	2.7E-07	3.3E-07	4.1E-07	5.0E-07	6.3E-07	7.8E-07	9.5E-07	1.2E-06	1.5E-06	2.2E-06	3.5E-06	4.4E-06	4.8E-06	4.5E-06	1.4E-06	1.1E-06	9.8E-07	1.7E-06	1.5E-06
3	96-12-8	1,2-Dibromo-3-Chloropropane	1.95E-05	2.8E-10	9	5.5E-10	6.6E-10	8.0E-10	9.7E-10	1.2E-09	1.5E-09	1.9E-09	2.3E-09	2.8E-09	3.4E-09	4.5E-09	6.5E-09	1.0E-08	1.3E-08	1.4E-08	1.3E-08	4.3E-09	3.3E-09	2.9E-09	5.1E-09	4.5E-09
3	98-06-6	tert-Butylbenzene	8.91E-06	1.3E-10	9	2.5E-10	3.0E-10	3.7E-10	4.4E-10	5.5E-10	6.8E-10	8.5E-10	1.1E-09	1.3E-09	1.6E-09	2.0E-09	3.0E-09	4.7E-09	5.9E-09	6.4E-09	6.1E-09	1.9E-09	1.5E-09	1.3E-09	2.3E-09	2.0E-09
4A	100-41-4	Ethylbenzene	3.50E-02	5.0E-07	10	5.6E-07	6.4E-07	7.3E-07	8.4E-07	9.8E-07	1.2E-06	1.4E-06	1.8E-06	2.3E-06	3.1E-06	4.4E-06	7.2E-06	1.5E-05	2.8E-05	3.6E-05	3.9E-05	1.2E-05	8.3E-06	7.4E-06	1.1E-05	7.6E-06
4A	100-42-5	Styrene	2.20E-02	3.2E-07	10	3.5E-07	4.0E-07	4.6E-07	5.3E-07	6.2E-07	7.4E-07	9.0E-07	1.1E-06	1.4E-06	1.9E-06	2.8E-06	4.5E-06	9.3E-06	1.7E-05	2.3E-05	2.5E-05	7.2E-06	5.2E-06	4.7E-06	6.8E-06	4.8E-06
4A	103-65-1	n-Propylbenzene	4.31E-03	6.2E-08	10	6.9E-08	7.9E-08	9.0E-08	1.0E-07	1.2E-07	1.4E-07	1.8E-07	2.2E-07	2.8E-07	3.8E-07	5.4E-07	8.9E-07	1.8E-06	3.4E-06	4.4E-06	4.8E-06	1.4E-06	1.0E-06	9.2E-07	1.3E-06	9.4E-07
4A	104-51-8	n-Butylbenzene	7.76E-04	1.1E-08	10	1.2E-08	1.4E-08	1.6E-08	1.9E-08	2.2E-08	2.6E-08	3.2E-08	3.9E-08	5.1E-08	6.8E-08	9.8E-08	1.6E-07	3.3E-07	6.2E-07	8.0E-07	8.7E-07	2.6E-07	1.8E-07	1.7E-07	2.4E-07	1.7E-07
4A	108-67-8	1,3,5-Trimethylbenzene	2.41E-03	3.5E-08	10	3.9E-08	4.4E-08	5.0E-08	5.8E-08	6.8E-08	8.1E-08	9.9E-08	1.2E-07	1.6E-07	2.1E-07	3.0E-07	5.0E-07	1.0E-06	1.9E-06	2.5E-06	2.7E-06	8.0E-07	5.7E-07	5.1E-07	7.5E-07	5.2E-07
4A	108-88-3	Toluene	2.62E-03	3.8E-08	10	4.2E-08	4.8E-08	5.5E-08	6.3E-08	7.4E-08	8.8E-08	1.1E-07	1.3E-07	1.7E-07	2.3E-07	3.3E-07	5.4E-07	1.1E-06	2.1E-06	2.7E-06	2.9E-06	8.6E-07	6.2E-07	5.6E-07	8.1E-07	5.7E-07
4A	11096-82-5	Aroclor 1260	2.32E-04	3.3E-09	10	3.7E-09	4.2E-09	4.8E-09	5.6E-09	6.5E-09	7.8E-09	9.5E-09	1.2E-08	1.5E-08	2.0E-08	2.9E-08	4.8E-08	9.8E-08	1.8E-07	2.4E-07	2.6E-07	7.6E-08	5.5E-08	4.9E-08	7.2E-08	5.0E-08
4A	120-12-7	Anthracene	2.15E-03	3.1E-08	10	3.4E-08	3.9E-08	4.5E-08	5.2E-08	6.0E-08	7.2E-08	8.8E-08	1.1E-07	1.4E-07	1.9E-07	2.7E-07	4.4E-07	9.1E-07	1.7E-06	2.2E-06	2.4E-06	7.1E-07	5.1E-07	4.6E-07	6.6E-07	4.7E-07
4A	129-00-0	Pyrene	6.82E-04	9.8E-09	10	1.1E-08	1.2E-08	1.4E-08	1.6E-08	1.9E-08	2.3E-08	2.8E-08	3.5E-08	4.4E-08	5.9E-08	8.6E-08	1.4E-07	2.9E-07	5.4E-07	7.0E-07	7.6E-07	2.2E-07	1.6E-07	1.5E-07	2.1E-07	1.5E-07
4A	1330-20-7	XYLENES (TOTAL)	1.33E-02	1.9E-07	10	2.1E-07	2.4E-07	2.8E-07	3.2E-07	3.7E-07	4.5E-07	5.4E-07	6.8E-07	8.7E-07	1.2E-06	1.7E-06	2.8E-06	5.6E-06	1.1E-05	1.4E-05	1.5E-05	4.4E-06	3.2E-06	2.8E-06	4.1E-06	2.9E-06
4A	135-98-8	(1-METHYLPROPYL)BENZENE	1.91E-02	2.7E-07	10	3.0E-07	3.5E-07	4.0E-07	4.6E-07	5.3E-07	6.4E-07	7.8E-07	9.7E-07	1.2E-06	1.7E-06	2.4E-06	4.0E-06	8.1E-06	1.5E-05	2.0E-05	2.1E-05	6.3E-06	4.5E-06	4.1E-06	5.9E-06	4.1E-06
4A	179601-23-1	m,p-Xylenes	5.96E-03	8.6E-08	10	9.5E-08	1.1E-07	1.2E-07	1.4E-07	1.7E-07	2.0E-07	2.4E-07	3.0E-07	3.9E-07	5.2E-07	7.5E-07	1.2E-06	2.5E-06	4.7E-06	6.1E-06	6.7E-06	2.0E-06	1.4E-06	1.3E-06	1.8E-06	1.3E-06
4A	67-64-1	2-PROPANONE	5.10E-03	7.3E-08	10	8.1E-08	9.3E-08	1.1E-07	1.2E-07	1.4E-07	1.7E-07	2.1E-07	2.6E-07	3.3E-07	4.4E-07	6.4E-07	1.1E-06	2.2E-06	4.0E-06	5.2E-06	5.7E-06	1.7E-06	1.2E-06	1.1E-06	1.6E-06	1.1E-06
4A	71-43-2	Benzene	1.64E-03	2.4E-08	10	2.6E-08	3.0E-08	3.4E-08	3.9E-08	4.6E-08	5.5E-08	6.7E-08	8.3E-08	1.1E-07	1.4E-07	2.1E-07	3.4E-07	7.0E-07	1.3E-06	1.7E-06	1.8E-06	5.4E-07	3.9E-07	3.5E-07	5.1E-07	3.6E-07
4A	7421-93-4	Endrin aldehyde	5.43E-06	7.8E-11	10	8.7E-11	9.9E-11	1.1E-10	1.3E-10	1.5E-10	1.8E-10	2.2E-10	2.8E-10	3.5E-10	4.7E-10	6.8E-10	1.1E-09	2.3E-09	4.3E-09	5.6E-09	6.1E-09	1.8E-09	1.3E-09	1.2E-09	1.7E-09	1.2E-09
4A	7439-98-7	Molybdenum	4.87E-03	7.0E-08	10	7.8E-08	8.9E-08	1.0E-07	1.2E-07	1.4E-07	1.6E-07	2.0E-07	2.5E-07	3.2E-07	4.2E-07	6.1E-07	1.0E-06	2.1E-06	3.9E-06	5.0E-06	5.5E-06	1.6E-06	1.2E-06	1.0E-06	1.5E-06	1.1E-06
4A	75-09-2	Methylene Chloride	2.23E-03	3.2E-08	10	3.6E-08	4.1E-08	4.6E-08	5.4E-08	6.3E-08	7.5E-08	9.1E-08	1.1E-07	1.5E-07	1.9E-07	2.8E-07	4.6E-07	9.4E-07	1.8E-06	2.3E-06	2.5E-06	7.3E-07	5.3E-07	4.7E-07	6.9E-07	4.8E-07
4A	75-69-4	Trichlorofluoromethane	7.47E-04	1.1E-08	10	1.2E-08	1.4E-08	1.6E-08	1.8E-08	2.1E-08	2.5E-08	3.0E-08	3.8E-08	4.9E-08	6.5E-08	9.4E-08	1.5E-07	3.2E-07	5.9E-07	7.7E-07	8.4E-07	2.5E-07	1.8E-07	1.6E-07	2.3E-07	1.6E-07
4A	78-93-3	2-Butanone	1.45E-03	2.1E-08	10	2.3E-08	2.6E-08	3.0E-08	3.5E-08	4.1E-08	4.8E-08	5.9E-08	7.3E-08	9.4E-08	1.3E-07	1.8E-07	3.0E-07	6.1E-07	1.1E-06	1.5E-06	1.6E-06	4.8E-07	3.4E-07	3.1E-07	4.5E-07	3.1E-07
4A	83-32-9	Acenaphthene	5.56E-04	8.0E-09	10	8.9E-09	1.0E-08	1.2E-08	1.3E-08	1.6E-08	1.9E-08	2.3E-08	2.8E-08	3.6E-08	4.8E-08	7.0E-08	1.2E-07	2.4E-07	4.4E-07	5.7E-07	6.2E-07	1.8E-07	1.3E-07	1.2E-07	1.7E-07	1.2E-07
4A	85-01-8	Phenanthrene	2.09E-01	3.0E-06	10	3.3E-06	3.8E-06	4.4E-06	5.0E-06	5.9E-06	7.0E-06	8.5E-06	1.1E-05	1.4E-05	1.8E-05	2.6E-05	4.3E-05	8.9E-05	1.7E-04	2.1E-04	2.3E-04	6.9E-05	5.0E-05	4.5E-05	6.5E-05	4.5E-05
4A	86-73-7	Fluorene	3.37E-03	4.8E-08	10	5.4E-08	6.2E-08	7.0E-08	8.1E-08	9.5E-08	1.1E-07	1.4E-07	1.7E-07	2.2E-07	2.9E-07	4.2E-07	7.0E-07	1.4E-06	2.7E-06	3.5E-06	3.8E-06	1.1E-06	8.0E-07	7.2E-07	1.0E-06	7.3E-07
4A	91-20-3	Naphthalene	2.62E-02	3.8E-07	10	4.2E-07	4.8E-07	5.5E-07	6.3E-07	7.4E-07	8.8E-07	1.1E-06	1.3E-06	1.7E-06	2.3E-06	3.3E-06	5.4E-06	1.1E-05	2.1E-05	2.7E-05	2.9E-05	8.6E-06	6.2E-06	5.6E-06	8.1E-06	5.7E-06
4A	91-57-6	2-Methylnaphthalene	1.14E-02	1.6E-07	10	1.8E-07	2.1E-07	2.4E-07	2.7E-07	3.2E-07	3.8E-07	4.6E-07	5.8E-07	7.4E-07	9.9E-07	1.4E-06	2.4E-06	4.8E-06	9.0E-06	1.2E-05	1.3E-05	3.7E-06	2.7E-06	2.4E-06	3.5E-06	2.5E-06
4A	95-47-6	o-Xylene	2.86E-03	4.1E-08	10	4.6E-08	5.2E-08	6.0E-08	6.9E-08	8.0E-08	9.6E-08	1.2E-07	1.4E-07	1.9E-07	2.5E-07	3.6E-07	5.9E-07	1.2E-06	2.3E-06	2.9E-06	3.2E-06	9.4E-07	6.8E-07	6.1E-07	8.8E-07	6.2E-07
4A	95-50-1	1,2-Dichlorobenzene	4.19E-04	6.0E-09	10	6.7E-09	7.7E-09	8.7E-09	1.0E-08	1.2E-08	1.4E-08	1.7E-08	2.1E-08	2.7E-08	3.7E-08	5.3E-08	8.7E-08	1.8E-07	3.3E-07	4.3E-07	4.7E-07	1.4E-07	9.9E-08	8.9E-08	1.3E-07	9.1E-08
4A	95-63-6	1,2,4-Trimethylbenzene	7.35E-03	1.1E-07	10	1.2E-07	1.3E-07	1.5E-07	1.8E-07	2.1E-07	2.5E-07	3.0E-07	3.7E-07	4.8E-07	6.4E-07	9.3E-07	1.5E-06	3.1E-06	5.8E-06	7.5E-06	8.2E-06	2.4E-06	1.7E-06	1.6E-06	2.3E-06	1.6E-06
4A	98-82-8	1-METHYLETHYLBENZENE	2.13E-02	3.1E-07	10	3.4E-07	3.9E-07	4.4E-07	5.1E-07	6.0E-07	7.1E-07	8.7E-07	1.1E-06	1.4E-06	1.9E-06	2.7E-06	4.4E-06	9.0E-06	1.7E-05	2.2E-05	2.4E-05	7.0E-06	5.1E-06	4.5E-06	6.6E-06	4.6E-06
4A	10042-59-8	2-PROPYL-1-HEPTANOL	5.10E-02	7.3E-07	10	8.1E-07	9.3E-07	1.1E-06	1.2E-06	1.4E-06	1.7E-06	2.1E-06	2.6E-06	3.3E-06	4.4E-06	6.4E-06	1.1E-05	2.2E-05	4.1E-05	5.2E-05	5.7E-05	1.7E-05	1.2E-05	1.1E-05	1.6E-05	1.1E-05
4A	1031-07-8	Endosulfan sulfate	1.15E-05	1.7E-10	10	1.8E-10	2.1E-10	2.4E-10	2.8E-10	3.2E-10	3.9E-10	4.7E-10	5.9E-10	7.5E-10	1.0E-09	1.5E-09	2.4E-09	4.9E-09	9.2E-09	1.2E-08	1.3E-08	3.8E-09	2.7E-09	2.5E-09	3.6E-09	2.5E-09
4A	106-42-3	P-XYLENE	1.05E-03	1.5E-08	10	1.7E-08	1.9E-08	2.2E-08	2.5E-08	2.9E-08	3.5E-08	4.3E-08	5.3E-08	6.8E-08	9.1E-08	1.3E-07	2.2E-07	4.4E-07	8.3E-07	1.1E-06	1.2E-06	3.4E-07	2.5E-07	2.2E-07	3.2E-07	2.3E-07
4A	106-43-4	4-Chlorotoluene	3.22E-03	4.6E-08	10	5.1E-08	5.9E-08	6.7E-08	7.7E-08	9.0E-08	1.1E-07	1.3E-07	1.6E-07	2.1E-07	2.8E-07	4.1E-07	6.7E-07	1.4E-06	2.6E-06	3.3E-06	3.6E-06	1.1E-06	7.6E-07	6.9E-07	1.0E-06	7.0E-07
4A	106-46-7	1,4-Dichlorobenzene	6.18E-04	8.9E-09	10	9.9E-09	1.1E-08	1.3E-08	1.5E-08	1.7E-08	2.1E-08	2.5E-08	3.1E-08	4.0E-08	5.4E-08	7.8E-08	1.3E-07	2.6E-07	4.9E-07	6.3E-07	6.9E-07	2.0E-07	1.5E-07	1.3E-07	1.9E-07	1.3E-07
4A	106-93-4	1,2-Dibromoethane	1.64E-05	2.4E-10	10	2.6E-10	3.0E-10	3.4E-10	3.9E-10	4.6E-10	5.5E-10	6.7E-10	8.3E-10	1.1E-09	1.4E-09	2.1E-09	3.4E-09	6.9E-09	1.3E-08	1.7E-08	1.8E-08	5.4E-09	3.9E-09	3.5E-09	5.1E-09	3.6E-09
4A	107-06-2	1,2-Dichloroethane	2.69E-02	3.9E-07	10	4.3E-07	4.9E-07	5.6E-07	6.5E-07	7.5E-07	9.0E-07	1.1E-06	1.4E-06	1.7E-06	2.3E-06	3.4E-06	5.6E-06	1.1E-05	2.1E-05	2.8E-05	3.0E-05	8.8E-06	6.4E-06	5.7E-06	8.3E-06	5.8E-06
4A	108-38-3	M-XYLENE	7.25E-02	1.0E-06	10	1.2E-06	1.3E-06	1.5E-06	1.7E-06	2.0E-06	2.4E-06	3.0E-06	3.7E-06	4.7E-06	6.3E-06	9.1E-06	1.5E-05	3.1E-05	5.8E-05	7.4E-05	8.1E-05	2.4E-05	1.7E-05	1.5E-05	2.2E-05	1.6E-05
4A	108-90-7	Chlorobenzene	1.77E-02	2.5E-07	10	2.8E-07	3.2E-07	3.7E-07	4.3E-07	5.0E-07	5.9E-07	7.2E-07	9.0E-07	1.2E-06	1.5E-06	2.2E-06	3.7E-06	7.5E-06	1.4E-05	1.8E-05	2.0E-05	5.8E-06	4.2E-06	3.8E-06	5.5E-06	3.8E-06
4A	11097-69-1	Aroclor 1254	1.64E-02	2.4E-07	10	2.6E-07	3.0E-07	3.4E-07	3.9E-07	4.6E-07	5.5E-07	6.7E-07	8.3E-07	1.1E-06	1.4E-06	2.1E-06	3.4E-06	6.9E-06	1.3E-05	1.7E-05	1.8E-05	5.4E-06	3.9E-06	3.5E-06	5.1E-06	3.6E-06
4A	120-82-1	1,2,4-Trichlorobenzene	2.69E-06	3.9E-11	10	4.3E-11	4.9E-11	5.6E-11	6.5E-11	7.5E-11	9.0E-11	1.1E-10	1.4E-10	1.7E-10	2.3E-10	3.4E-10	5.6E-10	1.1E-09	2.1E-09	2.8E-09	3.0E-09	8.8E-10	6.4E-10	5.7E-10	8.3E-10	5.8E-10
4A	12672-29-6	Aroclor 1248	1.40E-02	2.0E-07	10	2.2E-07	2.6E-07	2.9E-07	3.4E-07	3.9E-07	4.7E-07	5.7E-07	7.1E-07	9.1E-07	1.2E-06	1.8E-06	2.9E-06	5.9E-06	1.1E-05	1.4E-05	1.6E-05	4.6E-06	3.3E-06	3.0E-06	4.3E-06	3.0E-06
4A	12674-11-2	Aroclor 1016	4.30E-03	6.2E-08	10	6.9E-08	7.8E-08	9.0E-08	1.0E-07	1.2E-07	1.4E-07	1.8E-07	2.2E-07	2.8E-07	3.7E-07	5.4E-07	8.9E-07	1.8E-06	3.4E-06	4.4E-06	4.8E-06	1.4E-06	1.0E-06	9.1E-07	1.3E-06	9.3E-07
4A	127-18-4	Tetrachloroethene	2.10E-05	3.0E-10	10	3.3E-10	3.8E-10	4.4E-10	5.0E-10	5.9E-10	7.0E-10	8.6E-10	1.1E-09	1.4E-09	1.8E-09	2.6E-09	4.3E-09	8.9E-09	1.7E-08	2.2E-08	2.3E-08	6.9E-09	5.0E-09	4.5E-09	6.5E-09	4.5E-09
4A	132-64-9	Dibenzofuran	1.45E-03	2.1E-08	10	2.3E-08	2.6E-08	3.0E-08	3.5E-08	4.1E-08	4.9E-08	5.9E-08	7.4E-08	9.4E-08	1.3E-07	1.8E-07	3.0E-07	6.1E-07	1.2E-06	1.5E-06	1.6E-06	4.8E-07	3.4E-07	3.1E-07	4.5E-07	3.1E-07
4A	1653-40-3	6-METHYL-1,1-HEPTANOL	8.06E-02	1.2E-06	10	1.3E-06	1.5E-06	1.7E-06	1.9E-06	2.3E-06	2.7E-06	3.3E-06	4.1E-06	5.2E-06	7.0E-06	1.0E-05	1.7E-05	3.4E-05	6.4E-05	8.3E-05	9.0E-05	2.7E-05	1.9E-05	1.7E-05	2.5E-05	1.7E-05
4A	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	8.86E-03	1.3E-07	10	1.4E-07	1.6E-07	1.8E-07	2.1E-07	2.5E-07	3.0E-07	3.6E-07	4.5E-07	5.8E-07	7.7E-07	1.1E-06	1.8E-06	3.7E-06	7.0E-06	9.1E-06	9.9E-06	2.9E-06	2.1E-06	1.9E-06	2.7E-06	1.9E-06
4A	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.23E-02	3.2E-07	10	3.6E-07	4.1E-07	4.6E-07	5.4E-07	6.3E-07	7.5E-07	9.1E-07	1.1E-06	1.5E-06	1.9E-06	2.8E-06	4.6E-06	9.4E-06	1.8E-05	2.3E-05	2.5E-05	7.3E-06	5.3E-06	4.7E-06	6.9E-06	4.8E-06
4A	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.10E-02	1.6E-07	10	1.8E-07	2.0E-07	2.3E-07	2.6E-07	3.1E-07	3.7E-07	4.5E-07	5.6E-07	7.2E-07	9.6E-07	1.4E-06	2.3E-06	4.7E-06	8.7E-06	1.1E-05	1.2E-05	3.6E-06	2.6E-06	2.3E-06	3.4E-06	2.4E-06

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4A	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	9.13E-03	1.3E-07	10	1.5E-07	1.7E-07	1.9E-07	2.2E-07	2.6E-07	3.1E-07	3.7E-07	4.6E-07	5.9E-07	8.0E-07	1.2E-06	1.9E-06	3.9E-06	7.2E-06	9.4E-06	1.0E-05	3.0E-06	2.2E-06	1.9E-06	2.8E-06	2.0E-06
4A	26952-21-6	ISOOCTANOL	2.95E-02	4.2E-07	10	4.7E-07	5.4E-07	6.2E-07	7.1E-07	8.3E-07	9.9E-07	1.2E-06	1.5E-06	1.9E-06	2.6E-06	3.7E-06	6.1E-06	1.2E-05	2.3E-05	3.0E-05	3.3E-05	9.7E-06	7.0E-06	6.3E-06	9.1E-06	6.4E-06
4A	2719-52-0	(1-METHYLBUTYL)BENZENE	1.64E-02	2.4E-07	10	2.6E-07	3.0E-07	3.4E-07	3.9E-07	4.6E-07	5.5E-07	6.7E-07	8.3E-07	1.1E-06	1.4E-06	2.1E-06	3.4E-06	6.9E-06	1.3E-05	1.7E-05	1.8E-05	5.4E-06	3.9E-06	3.5E-06	5.1E-06	3.6E-06
4A	2883-05-8	2-CYCLOHEXYLDECANE	2.18E-02	3.1E-07	10	3.5E-07	4.0E-07	4.5E-07	5.2E-07	6.1E-07	7.3E-07	8.9E-07	1.1E-06	1.4E-06	1.9E-06	2.7E-06	4.5E-06	9.2E-06	1.7E-05	2.2E-05	2.4E-05	7.2E-06	5.2E-06	4.6E-06	6.7E-06	4.7E-06
4A	33213-65-9	Endosulfan II	2.95E-05	4.2E-10	10	4.7E-10	5.4E-10	6.2E-10	7.1E-10	8.3E-10	9.9E-10	1.2E-09	1.5E-09	1.9E-09	2.6E-09	3.7E-09	6.1E-09	1.2E-08	2.3E-08	3.0E-08	3.3E-08	9.7E-09	7.0E-09	6.3E-09	9.1E-09	6.4E-09
4A	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.13E-02	1.6E-07	10	1.8E-07	2.1E-07	2.4E-07	2.7E-07	3.2E-07	3.8E-07	4.6E-07	5.7E-07	7.3E-07	9.8E-07	1.4E-06	2.3E-06	4.8E-06	9.0E-06	1.2E-05	1.3E-05	3.7E-06	2.7E-06	2.4E-06	3.5E-06	2.4E-06
4A	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	7.25E-03	1.0E-07	10	1.2E-07	1.3E-07	1.5E-07	1.7E-07	2.0E-07	2.4E-07	3.0E-07	3.7E-07	4.7E-07	6.3E-07	9.1E-07	1.5E-06	3.1E-06	5.8E-06	7.4E-06	8.1E-06	2.4E-06	1.7E-06	1.5E-06	2.2E-06	1.6E-06
4A	496-10-6	OCTAHYDROINDENE	8.33E-02	1.2E-06	10	1.3E-06	1.5E-06	1.7E-06	2.0E-06	2.3E-06	2.8E-06	3.4E-06	4.2E-06	5.4E-06	7.3E-06	1.0E-05	1.7E-05	3.5E-05	6.6E-05	8.5E-05	9.3E-05	2.7E-05	2.0E-05	1.8E-05	2.6E-05	1.8E-05
4A	5103-74-2	GAMMA-CHLORDANE	4.57E-05	6.6E-10	10	7.3E-10	8.3E-10	9.5E-10	1.1E-09	1.3E-09	1.5E-09	1.9E-09	2.3E-09	3.0E-09	4.0E-09	5.8E-09	9.5E-09	1.9E-08	3.6E-08	4.7E-08	5.1E-08	1.5E-08	1.1E-08	9.7E-09	1.4E-08	9.9E-09
4A	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.01E-02	2.9E-07	10	3.2E-07	3.7E-07	4.2E-07	4.8E-07	5.6E-07	6.8E-07	8.2E-07	1.0E-06	1.3E-06	1.8E-06	2.5E-06	4.2E-06	8.5E-06	1.6E-05	2.1E-05	2.3E-05	6.6E-06	4.8E-06	4.3E-06	6.2E-06	4.4E-06
4A	53469-21-9	Aroclor 1242	1.13E-02	1.6E-07	10	1.8E-07	2.1E-07	2.4E-07	2.7E-07	3.2E-07	3.8E-07	4.6E-07	5.7E-07	7.3E-07	9.8E-07	1.4E-06	2.3E-06	4.8E-06	9.0E-06	1.2E-05	1.3E-05	3.7E-06	2.7E-06	2.4E-06	3.5E-06	2.4E-06
4A	53494-70-5	Endrin ketone	8.06E-06	1.2E-10	10	1.3E-10	1.5E-10	1.7E-10	1.9E-10	2.3E-10	2.7E-10	3.3E-10	4.1E-10	5.2E-10	7.0E-10	1.0E-09	1.7E-09	3.4E-09	6.4E-09	8.3E-09	9.0E-09	2.7E-09	1.9E-09	1.7E-09	2.5E-09	1.7E-09
4A	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.07E-01	1.5E-06	10	1.7E-06	2.0E-06	2.2E-06	2.6E-06	3.0E-06	3.6E-06	4.4E-06	5.5E-06	7.0E-06	9.4E-06	1.4E-05	2.2E-05	4.5E-05	8.5E-05	1.1E-04	1.2E-04	3.5E-05	2.5E-05	2.3E-05	3.3E-05	2.3E-05
4A	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	4.83E-03	7.0E-08	10	7.7E-08	8.8E-08	1.0E-07	1.2E-07	1.4E-07	1.6E-07	2.0E-07	2.5E-07	3.1E-07	4.2E-07	6.1E-07	1.0E-06	2.0E-06	3.8E-06	5.0E-06	5.4E-06	1.6E-06	1.1E-06	1.0E-06	1.5E-06	1.0E-06
4A	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.07E-02	3.0E-07	10	3.3E-07	3.8E-07	4.3E-07	5.0E-07	5.8E-07	6.9E-07	8.4E-07	1.0E-06	1.3E-06	1.8E-06	2.6E-06	4.3E-06	8.7E-06	1.6E-05	2.1E-05	2.3E-05	6.8E-06	4.9E-06	4.4E-06	6.4E-06	4.5E-06
4A	591-78-6	2-Hexanone	9.13E-06	1.3E-10	10	1.5E-10	1.7E-10	1.9E-10	2.2E-10	2.6E-10	3.1E-10	3.7E-10	4.6E-10	5.9E-10	8.0E-10	1.2E-09	1.9E-09	3.9E-09	7.2E-09	9.4E-09	1.0E-08	3.0E-09	2.2E-09	1.9E-09	2.8E-09	2.0E-09
4A	65-85-0	Benzoic acid	4.30E-04	6.2E-09	10	6.9E-09	7.8E-09	9.0E-09	1.0E-08	1.2E-08	1.4E-08	1.8E-08	2.2E-08	2.8E-08	3.7E-08	5.4E-08	8.9E-08	1.8E-07	3.4E-07	4.4E-07	4.8E-07	1.4E-07	1.0E-07	9.1E-08	1.3E-07	9.3E-08
4A	67-66-3	Chloroform	6.71E-02	9.7E-07	10	1.1E-06	1.2E-06	1.4E-06	1.6E-06	1.9E-06	2.3E-06	2.7E-06	3.4E-06	4.4E-06	5.9E-06	8.5E-06	1.4E-05	2.8E-05	5.3E-05	6.9E-05	7.5E-05	2.2E-05	1.6E-05	1.4E-05	2.1E-05	1.5E-05
4A	71-55-6	1,1,1-Trichloroethane	3.49E-02	5.0E-07	10	5.6E-07	6.4E-07	7.3E-07	8.4E-07	9.8E-07	1.2E-06	1.4E-06	1.8E-06	2.3E-06	3.0E-06	4.4E-06	7.2E-06	1.5E-05	2.8E-05	3.6E-05	3.9E-05	1.1E-05	8.3E-06	7.4E-06	1.1E-05	7.6E-06
4A	75-34-3	1,1-Dichloroethane	1.88E-03	2.7E-08	10	3.0E-08	3.4E-08	3.9E-08	4.5E-08	5.3E-08	6.3E-08	7.7E-08	9.5E-08	1.2E-07	1.6E-07	2.4E-07	3.9E-07	7.9E-07	1.5E-06	1.9E-06	2.1E-06	6.2E-07	4.5E-07	4.0E-07	5.8E-07	4.1E-07
4A	75-35-4	1,1-Dichloroethene	1.15E-05	1.7E-10	10	1.8E-10	2.1E-10	2.4E-10	2.8E-10	3.2E-10	3.9E-10	4.7E-10	5.9E-10	7.5E-10	1.0E-09	1.5E-09	2.4E-09	4.9E-09	9.2E-09	1.2E-08	1.3E-08	3.8E-09	2.7E-09	2.5E-09	3.6E-09	2.5E-09
4A	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.31E-02	3.3E-07	10	3.7E-07	4.2E-07	4.8E-07	5.5E-07	6.5E-07	7.7E-07	9.4E-07	1.2E-06	1.5E-06	2.0E-06	2.9E-06	4.8E-06	9.8E-06	1.8E-05	2.4E-05	2.6E-05	7.6E-06	5.5E-06	4.9E-06	7.1E-06	5.0E-06
4A	79-34-5	1,1,2,2-Tetrachloroethane	2.52E-04	3.6E-09	10	4.0E-09	4.6E-09	5.3E-09	6.1E-09	7.1E-09	8.5E-09	1.0E-08	1.3E-08	1.6E-08	2.2E-08	3.2E-08	5.2E-08	1.1E-07	2.0E-07	2.6E-07	2.8E-07	8.3E-08	6.0E-08	5.4E-08	7.8E-08	5.5E-08
4A	87-61-6	1,2,3-Trichlorobenzene	3.49E-06	5.0E-11	10	5.6E-11	6.4E-11	7.3E-11	8.4E-11	9.8E-11	1.2E-10	1.4E-10	1.8E-10	2.3E-10	3.0E-10	4.4E-10	7.2E-10	1.5E-09	2.8E-09	3.6E-09	3.9E-09	1.1E-09	8.3E-10	7.4E-10	1.1E-09	7.6E-10
4A	91-17-8	DECAHYDRONAPHTHALENE	4.03E-02	5.8E-07	10	6.4E-07	7.4E-07	8.4E-07	9.7E-07	1.1E-06	1.4E-06	1.6E-06	2.0E-06	2.6E-06	3.5E-06	5.1E-06	8.3E-06	1.7E-05	3.2E-05	4.1E-05	4.5E-05	1.3E-05	9.6E-06	8.6E-06	1.2E-05	8.7E-06
4A	941-60-6	1,1,4-6-TETRAMETHYLINDANE	5.37E-03	7.7E-08	10	8.6E-08	9.8E-08	1.1E-07	1.3E-07	1.5E-07	1.8E-07	2.2E-07	2.7E-07	3.5E-07	4.7E-07	6.8E-07	1.1E-06	2.3E-06	4.3E-06	5.5E-06	6.0E-06	1.8E-06	1.3E-06	1.1E-06	1.7E-06	1.2E-06
4A	96-12-8	1,2-Dibromo-3-Chloropropane	1.58E-05	2.3E-10	10	2.5E-10	2.9E-10	3.3E-10	3.8E-10	4.4E-10	5.3E-10	6.5E-10	8.0E-10	1.0E-09	1.4E-09	2.0E-09	3.3E-09	6.7E-09	1.3E-08	1.6E-08	1.8E-08	5.2E-09	3.8E-09	3.4E-09	4.9E-09	3.4E-09
4A	98-06-6	tert-Butylbenzene	7.25E-06	1.0E-10	10	1.2E-10	1.3E-10	1.5E-10	1.7E-10	2.0E-10	2.4E-10	3.0E-10	3.7E-10	4.7E-10	6.3E-10	9.1E-10	1.5E-09	3.1E-09	5.8E-09	7.4E-09	8.1E-09	2.4E-09	1.7E-09	1.5E-09	2.2E-09	1.6E-09
4B	100-41-4	Ethylbenzene	5.86E-02	8.4E-07	11	3.8E-06	5.6E-06	9.3E-06	1.9E-05	4.4E-05	6.5E-05	7.8E-05	8.2E-05	8.3E-05	8.2E-05	8.1E-05	8.0E-05	7.1E-05	5.1E-05	3.4E-05	2.4E-05	8.1E-06	7.6E-06	5.5E-06	1.7E-05	2.4E-05
4B	100-42-5	Styrene	3.68E-02	5.3E-07	11	2.4E-06	3.5E-06	5.8E-06	1.2E-05	2.8E-05	4.1E-05	4.9E-05	5.1E-05	5.2E-05	5.1E-05	5.1E-05	5.0E-05	4.5E-05	3.2E-05	2.1E-05	1.5E-05	5.1E-06	4.8E-06	3.5E-06	1.0E-05	1.5E-05
4B	103-65-1	n-Propylbenzene	7.22E-03	1.0E-07	11	4.7E-07	7.0E-07	1.1E-06	2.3E-06	5.4E-06	8.1E-06	9.6E-06	1.0E-05	1.0E-05	1.0E-05	1.0E-05	9.9E-06	8.8E-06	6.2E-06	4.2E-06	2.9E-06	1.0E-06	9.4E-07	6.8E-07	2.0E-06	2.9E-06
4B	104-51-8	n-Butylbenzene	1.30E-03	1.9E-08	11	8.4E-08	1.3E-07	2.1E-07	4.2E-07	9.7E-07	1.5E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.8E-06	1.8E-06	1.6E-06	1.1E-06	7.5E-07	5.3E-07	1.8E-07	1.7E-07	1.2E-07	3.7E-07	5.3E-07
4B	108-67-8	1,3,5-Trimethylbenzene	4.04E-03	5.8E-08	11	2.6E-07	3.9E-07	6.4E-07	1.3E-06	3.0E-06	4.5E-06	5.4E-06	5.7E-06	5.7E-06	5.6E-06	5.6E-06	5.5E-06	4.9E-06	3.5E-06	2.3E-06	1.6E-06	5.6E-07	5.2E-07	3.8E-07	1.1E-06	1.6E-06
4B	108-88-3	Toluene	4.39E-03	6.3E-08	11	2.8E-07	4.2E-07	6.9E-07	1.4E-06	3.3E-06	4.9E-06	5.8E-06	6.1E-06	6.2E-06	6.1E-06	6.1E-06	6.0E-06	5.3E-06	3.8E-06	2.5E-06	1.8E-06	6.1E-07	5.7E-07	4.2E-07	1.2E-06	1.8E-06
4B	11096-82-5	Aroclor 1260	3.88E-04	5.6E-09	11	2.5E-08	3.7E-08	6.1E-08	1.3E-07	2.9E-07	4.3E-07	5.1E-07	5.4E-07	5.5E-07	5.4E-07	5.4E-07	5.3E-07	4.7E-07	3.3E-07	2.2E-07	1.6E-07	5.4E-08	5.0E-08	3.7E-08	1.1E-07	1.6E-07
4B	120-12-7	Anthracene	3.60E-03	5.2E-08	11	2.3E-07	3.5E-07	5.7E-07	1.2E-06	2.7E-06	4.0E-06	4.8E-06	5.0E-06	5.1E-06	5.0E-06	5.0E-06	4.9E-06	4.4E-06	3.1E-06	2.1E-06	1.5E-06	5.0E-07	4.7E-07	3.4E-07	1.0E-06	1.5E-06
4B	129-00-0	Pyrene	1.14E-03	1.6E-08	11	7.4E-08	1.1E-07	1.8E-07	3.7E-07	8.6E-07	1.3E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.4E-06	9.9E-07	6.6E-07	4.6E-07	1.6E-07	1.5E-07	1.1E-07	3.2E-07	4.6E-07
4B	1330-20-7	XYLENES (TOTAL)	2.23E-02	3.2E-07	11	1.4E-06	2.1E-06	3.5E-06	7.2E-06	1.7E-05	2.5E-05	3.0E-05	3.1E-05	3.1E-05	3.1E-05	3.1E-05	3.1E-05	2.7E-05	1.9E-05	1.3E-05	9.0E-06	3.1E-06	2.9E-06	2.1E-06	6.3E-06	9.0E-06
4B	135-98-8	(1-METHYLPROPYL)BENZENE	3.20E-02	4.6E-07	11	2.1E-06	3.1E-06	5.1E-06	1.0E-05	2.4E-05	3.6E-05	4.2E-05	4.5E-05	4.5E-05	4.4E-05	4.4E-05	4.4E-05	3.9E-05	2.8E-05	1.9E-05	1.3E-05	4.4E-06	4.1E-06	3.0E-06	9.1E-06	1.3E-05
4B	179601-23-1	m,p-Xylenes	9.98E-03	1.4E-07	11	6.5E-07	9.6E-07	1.6E-06	3.2E-06	7.5E-06	1.1E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.2E-05	8.6E-06	5.8E-06	4.0E-06	1.4E-06	1.3E-06	9.4E-07	2.8E-06	4.0E-06
4B	67-64-1	2-PROPANONE	8.54E-03	1.2E-07	11	5.5E-07	8.2E-07	1.4E-06	2.8E-06	6.4E-06	9.5E-06	1.1E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.0E-05	7.4E-06	4.9E-06	3.4E-06	1.2E-06	1.1E-06	8.1E-07	2.4E-06	3.5E-06
4B	71-43-2	Benzene	2.75E-03	4.0E-08	11	1.8E-07	2.7E-07	4.4E-07	8.9E-07	2.1E-06	3.1E-06	3.6E-06	3.9E-06	3.9E-06	3.8E-06	3.8E-06	3.8E-06	3.3E-06	2.4E-06	1.6E-06	1.1E-06	3.8E-07	3.6E-07	2.6E-07	7.8E-07	1.1E-06
4B	7421-93-4	Endrin aldehyde	9.09E-06	1.3E-10	11	5.9E-10	8.8E-10	1.4E-09	3.0E-09	6.8E-09	1.0E-08	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.2E-08	1.1E-08	7.8E-09	5.3E-09	3.7E-09	1.3E-09	1.2E-09	8.6E-10	2.6E-09	3.7E-09
4B	7439-98-7	Molybdenum	8.16E-03	1.2E-07	11	5.3E-07	7.9E-07	1.3E-06	2.7E-06	6.1E-06	9.1E-06	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	9.9E-06	7.0E-06	4.7E-06	3.3E-06	1.1E-06	1.1E-06	7.7E-07	2.3E-06	3.3E-06
4B	75-09-2	Methylene Chloride	3.73E-03	5.4E-08	11	2.4E-07	3.6E-07	5.9E-07	1.2E-06	2.8E-06	4.2E-06	4.9E-06	5.2E-06	5.3E-06	5.2E-06	5.2E-06	5.1E-06	4.5E-06	3.2E-06	2.2E-06	1.5E-06	5.2E-07	4.8E-07	3.5E-07	1.1E-06	1.5E-06
4B	75-69-4	Trichlorofluoromethane	1.25E-03	1.8E-08	11	8.1E-08	1.2E-07	2.0E-07	4.1E-07	9.4E-07	1.4E-06	1.7E-06	1.8E-06	1.8E-06	1.7E-06	1.7E-06	1.7E-06	1.5E-06	1.1E-06	7.2E-07	5.1E-07	1.7E-07	1.6E-07	1.2E-07	3.5E-07	5.1E-07
4B	78-93-3	2-Butanone	2.42E-03	3.5E-08	11	1.6E-07	2.3E-07	3.8E-07	7.9E-07	1.8E-06	2.7E-06	3.2E-06	3.4E-06	3.4E-06	3.4E-06	3.4E-06	3.3E-06	2.9E-06	2.1E-06	1.4E-06	9.8E-07	3.3E-07	3.1E-07	2.3E-07	6.9E-07	9.8E-07
4B	83-32-9	Acenaphthene	9.31E-04	1.3E-08	11	6.0E-08	9.0E-08	1.5E-07	3.0E-07	7.0E-07	1.0E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.1E-06	8.0E-07	5.4E-07	3.8E-07	1.3E-07	1.2E-07	8.8E-08	2.6E-07	3.8E-07
4B	85-01-8	Phenanthrene	3.51E-01	5.0E-06	11	2.3E-05	3.4E-05	5.5E-05	1.1E-04	2.6E-04	3.9E-04	4.6E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.8E-04	4.3E-04	3.0E-04	2.0E-04	1.4E-04	4.9E-05	4.5E-05	3.3E-05	9.9E-05	1.4E-04
4B	86-73-7	Fluorene	5.65E-03	8.1E-08	11	3.7E-07	5.4E-07	8.9E-07	1.8E-06	4.2E-06	6.3E-06	7.5E-06	7.9E-06	8.0E-06	7.9E-06	7.8E-06	7.7E-06	6.9E-06	4.9E-06	3.3E-06	2.3E-06	7.8E-07	7.3E-07	5.3E-07	1.6E-06	2.3E-06
4B	91-20-3	Naphthalene	4.39E-02	6.3E-07	11	2.9E-06	4.2E-06	7.0E-06	1.4E-05	3.3E-05	4.9E-05	5.8E-05	6.1E-05	6.2E-05	6.1E-05	6.1E-05	6.0E-05	5.3E-05	3.8E-05	2.5E-05	1.8E-05	6.1E-06	5.7E-06	4.2E-06	1.2E-05	1.8E-05
4B	91-57-6	2-Methylnaphthalene	1.91E-02	2.7E-07	11	1.2E-06	1.8E-06	3.0E-06	6.2E-06	1.4E-05	2.1E-05	2.5E-05	2.7E-05	2.7E-05	2.7E-05	2.6E-05	2.6E-05	2.3E-05	1.6E-05	1.1E-05	7.7E-06	2.6E-06	2.5E-06	1.8E-06	5.4E-06	7.7E-06
4B	95-47-6	o-Xylene	4.78E-03	6.9E-08	11	3.1E-07	4.6E-07	7.6E-07	1.6E-06	3.6E-06	5.3E-06	6.3E-06	6.7E-06	6.7E-06	6.7E-06	6.6E-06	6.6E-06	5.8E-06	4.1E-06	2.8E-06	1.9E-06	6.6E-07	6.2E-07	4.5E-07	1.4E-06	1.9E-06
4B	95-50-1	1,2-Dichlorobenzene	7.02E-04	1.0E-08	11	4.6E-08	6.8E-08	1.1E-07	2.3E-07	5.3E-07	7.8E-07	9.3E-07	9.8E-07	9.9E-07	9.8E-07	9.8E-07	9.6E-07	8.5E-07	6.1E-07	4.1E-07	2.8E-07	9.7E-08	9.1E-08	6.6E-08	2.0E-07	2.8E-07
4B	95-63-6	1,2,4-Trimethylbenzene	1.23E-02	1.8E-07	11	8.0E-07	1.2E-06	1.9E-06	4.0E-06	9.2E-06	1.4E-05	1.6E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.5E-05	1.1E-05	7.1E-06	5.0E-06	1.7E-06	1.6E-06	1.2E-06	3.5E-06	5.0E-06
4B	98-82-8	1-METHYLETHYLBENZENE	3.57E-02	5.1E-07	11	2.3E-06	3.4E-06	5.7E-06	1.2E-05	2.7E-05	4.0E-05	4.7E-05	5.0E-05	5.0E-05	5.0E-05	5.0E-05	4.9E-05	4.3E-05	3.1E-05	2.1E-05	1.4E-05	4.9E-06	4.6E-06	3.4E-06	1.0E-05	1.4E-05

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4B	10042-59-8	2-PROPYL-1-HEPTANOL	8.55E-02	1.2E-06	11	5.5E-06	8.2E-06	1.4E-05	2.8E-05	6.4E-05	9.5E-05	1.1E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.0E-04	7.4E-05	5.0E-05	3.5E-05	1.2E-05	1.1E-05	8.1E-06	2.4E-05	3.5E-05
4B	1031-07-8	Endosulfan sulfate	1.93E-05	2.8E-10	11	1.3E-09	1.9E-09	3.1E-09	6.3E-09	1.4E-08	2.2E-08	2.6E-08	2.7E-08	2.7E-08	2.7E-08	2.7E-08	2.7E-08	2.4E-08	1.7E-08	1.1E-08	7.8E-09	2.7E-09	2.5E-09	1.8E-09	5.5E-09	7.8E-09
4B	106-42-3	P-XYLENE	1.75E-03	2.5E-08	11	1.1E-07	1.7E-07	2.8E-07	5.7E-07	1.3E-06	2.0E-06	2.3E-06	2.5E-06	2.5E-06	2.4E-06	2.4E-06	2.4E-06	2.1E-06	1.5E-06	1.0E-06	7.1E-07	2.4E-07	2.3E-07	1.7E-07	5.0E-07	7.1E-07
4B	106-43-4	4-Chlorotoluene	5.40E-03	7.8E-08	11	3.5E-07	5.2E-07	8.5E-07	1.8E-06	4.0E-06	6.0E-06	7.2E-06	7.6E-06	7.6E-06	7.5E-06	7.5E-06	7.4E-06	6.6E-06	4.7E-06	3.1E-06	2.2E-06	7.5E-07	7.0E-07	5.1E-07	1.5E-06	2.2E-06
4B	106-46-7	1,4-Dichlorobenzene	1.03E-03	1.5E-08	11	6.7E-08	1.0E-07	1.6E-07	3.4E-07	7.8E-07	1.2E-06	1.4E-06	1.4E-06	1.5E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	8.9E-07	6.0E-07	4.2E-07	1.4E-07	1.3E-07	9.8E-08	2.9E-07	4.2E-07
4B	106-93-4	1,2-Dibromoethane	2.74E-05	3.9E-10	11	1.8E-09	2.6E-09	4.3E-09	8.9E-09	2.1E-08	3.1E-08	3.6E-08	3.8E-08	3.9E-08	3.8E-08	3.8E-08	3.8E-08	3.3E-08	2.4E-08	1.6E-08	1.1E-08	3.8E-09	3.6E-09	2.6E-09	7.8E-09	1.1E-08
4B	107-06-2	1,2-Dichloroethane	4.50E-02	6.5E-07	11	2.9E-06	4.3E-06	7.1E-06	1.5E-05	3.4E-05	5.0E-05	6.0E-05	6.3E-05	6.3E-05	6.3E-05	6.3E-05	6.2E-05	5.5E-05	3.9E-05	2.6E-05	1.8E-05	6.2E-06	5.8E-06	4.3E-06	1.3E-05	1.8E-05
4B	108-38-3	M-XYLENE	1.21E-01	1.7E-06	11	7.9E-06	1.2E-05	1.9E-05	3.9E-05	9.1E-05	1.4E-04	1.6E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.5E-04	1.0E-04	7.0E-05	4.9E-05	1.7E-05	1.6E-05	1.1E-05	3.4E-05	4.9E-05
4B	108-90-7	Chlorobenzene	2.97E-02	4.3E-07	11	1.9E-06	2.9E-06	4.7E-06	9.7E-06	2.2E-05	3.3E-05	3.9E-05	4.2E-05	4.2E-05	4.1E-05	4.1E-05	4.1E-05	3.6E-05	2.6E-05	1.7E-05	1.2E-05	4.1E-06	3.8E-06	2.8E-06	8.4E-06	1.2E-05
4B	11097-69-1	Aroclor 1254	2.74E-02	3.9E-07	11	1.8E-06	2.6E-06	4.3E-06	8.9E-06	2.1E-05	3.1E-05	3.6E-05	3.8E-05	3.9E-05	3.8E-05	3.8E-05	3.8E-05	3.3E-05	2.4E-05	1.6E-05	1.1E-05	3.8E-06	3.6E-06	2.6E-06	7.8E-06	1.1E-05
4B	120-82-1	1,2,4-Trichlorobenzene	4.50E-06	6.5E-11	11	2.9E-10	4.3E-10	7.1E-10	1.5E-09	3.4E-09	5.0E-09	6.0E-09	6.3E-09	6.3E-09	6.3E-09	6.3E-09	6.2E-09	5.5E-09	3.9E-09	2.6E-09	1.8E-09	6.2E-10	5.8E-10	4.3E-10	1.3E-09	1.8E-09
4B	12672-29-6	Aroclor 1248	2.34E-02	3.4E-07	11	1.5E-06	2.3E-06	3.7E-06	7.6E-06	1.8E-05	2.6E-05	3.1E-05	3.3E-05	3.3E-05	3.3E-05	3.3E-05	3.2E-05	2.8E-05	2.0E-05	1.4E-05	9.5E-06	3.2E-06	3.0E-06	2.2E-06	6.6E-06	9.5E-06
4B	12674-11-2	Aroclor 1016	7.20E-03	1.0E-07	11	4.7E-07	6.9E-07	1.1E-06	2.3E-06	5.4E-06	8.0E-06	9.5E-06	1.0E-05	1.0E-05	1.0E-05	1.0E-05	9.9E-06	8.7E-06	6.2E-06	4.2E-06	2.9E-06	1.0E-06	9.3E-07	6.8E-07	2.0E-06	2.9E-06
4B	127-18-4	Tetrachloroethene	3.51E-05	5.0E-10	11	2.3E-09	3.4E-09	5.6E-09	1.1E-08	2.6E-08	3.9E-08	4.6E-08	4.9E-08	4.9E-08	4.9E-08	4.9E-08	4.8E-08	4.3E-08	3.0E-08	2.0E-08	1.4E-08	4.9E-09	4.5E-09	3.3E-09	9.9E-09	1.4E-08
4B	132-64-9	Dibenzofuran	2.43E-03	3.5E-08	11	1.6E-07	2.3E-07	3.8E-07	7.9E-07	1.8E-06	2.7E-06	3.2E-06	3.4E-06	3.4E-06	3.4E-06	3.4E-06	3.3E-06	3.0E-06	2.1E-06	1.4E-06	9.8E-07	3.4E-07	3.1E-07	2.3E-07	6.9E-07	9.9E-07
4B	1653-40-3	6-METHYL-1,1-HEPTANOL	1.35E-01	1.9E-06	11	8.8E-06	1.3E-05	2.1E-05	4.4E-05	1.0E-04	1.5E-04	1.8E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.6E-04	1.2E-04	7.8E-05	5.5E-05	1.9E-05	1.7E-05	1.3E-05	3.8E-05	5.5E-05
4B	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.48E-02	2.1E-07	11	9.6E-07	1.4E-06	2.3E-06	4.8E-06	1.1E-05	1.7E-05	2.0E-05	2.1E-05	2.1E-05	2.1E-05	2.1E-05	2.0E-05	1.8E-05	1.3E-05	8.6E-06	6.0E-06	2.1E-06	1.9E-06	1.4E-06	4.2E-06	6.0E-06
4B	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.73E-02	5.4E-07	11	2.4E-06	3.6E-06	5.9E-06	1.2E-05	2.8E-05	4.2E-05	4.9E-05	5.2E-05	5.3E-05	5.2E-05	5.2E-05	5.1E-05	4.5E-05	3.2E-05	2.2E-05	1.5E-05	5.2E-06	4.8E-06	3.5E-06	1.1E-05	1.5E-05
4B	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.84E-02	2.7E-07	11	1.2E-06	1.8E-06	2.9E-06	6.0E-06	1.4E-05	2.1E-05	2.4E-05	2.6E-05	2.6E-05	2.6E-05	2.6E-05	2.5E-05	2.2E-05	1.6E-05	1.1E-05	7.5E-06	2.6E-06	2.4E-06	1.7E-06	5.2E-06	7.5E-06
4B	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.53E-02	2.2E-07	11	9.9E-07	1.5E-06	2.4E-06	5.0E-06	1.1E-05	1.7E-05	2.0E-05	2.1E-05	2.2E-05	2.1E-05	2.1E-05	2.1E-05	1.9E-05	1.3E-05	8.9E-06	6.2E-06	2.1E-06	2.0E-06	1.4E-06	4.3E-06	6.2E-06
4B	26952-21-6	ISOOCTANOL	4.95E-02	7.1E-07	11	3.2E-06	4.8E-06	7.8E-06	1.6E-05	3.7E-05	5.5E-05	6.6E-05	6.9E-05	7.0E-05	6.9E-05	6.9E-05	6.8E-05	6.0E-05	4.3E-05	2.9E-05	2.0E-05	6.8E-06	6.4E-06	4.7E-06	1.4E-05	2.0E-05
4B	2719-52-0	(1-METHYLBUTYL)BENZENE	2.74E-02	3.9E-07	11	1.8E-06	2.6E-06	4.3E-06	8.9E-06	2.1E-05	3.1E-05	3.6E-05	3.8E-05	3.9E-05	3.8E-05	3.8E-05	3.8E-05	3.3E-05	2.4E-05	1.6E-05	1.1E-05	3.8E-06	3.6E-06	2.6E-06	7.8E-06	1.1E-05
4B	2883-05-8	2-CYCLOHEXYLDECANE	3.64E-02	5.2E-07	11	2.4E-06	3.5E-06	5.8E-06	1.2E-05	2.7E-05	4.1E-05	4.8E-05	5.1E-05	5.1E-05	5.1E-05	5.1E-05	5.0E-05	4.4E-05	3.1E-05	2.1E-05	1.5E-05	5.0E-06	4.7E-06	3.4E-06	1.0E-05	1.5E-05
4B	33213-65-9	Endosulfan II	4.95E-05	7.1E-10	11	3.2E-09	4.8E-09	7.8E-09	1.6E-08	3.7E-08	5.5E-08	6.6E-08	6.9E-08	7.0E-08	6.9E-08	6.9E-08	6.8E-08	6.0E-08	4.3E-08	2.9E-08	2.0E-08	6.8E-09	6.4E-09	4.7E-09	1.4E-08	2.0E-08
4B	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.89E-02	2.7E-07	11	1.2E-06	1.8E-06	3.0E-06	6.1E-06	1.4E-05	2.1E-05	2.5E-05	2.6E-05	2.7E-05	2.6E-05	2.6E-05	2.6E-05	2.3E-05	1.6E-05	1.1E-05	7.6E-06	2.6E-06	2.4E-06	1.8E-06	5.4E-06	7.7E-06
4B	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.21E-02	1.7E-07	11	7.9E-07	1.2E-06	1.9E-06	3.9E-06	9.1E-06	1.4E-05	1.6E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.7E-05	1.5E-05	1.0E-05	7.0E-06	4.9E-06	1.7E-06	1.6E-06	1.1E-06	3.4E-06	4.9E-06
4B	496-10-6	OCTAHYDROINDENE	1.39E-01	2.0E-06	11	9.0E-06	1.3E-05	2.2E-05	4.5E-05	1.0E-04	1.6E-04	1.8E-04	2.0E-04	2.0E-04	1.9E-04	1.9E-04	1.9E-04	1.7E-04	1.2E-04	8.1E-05	5.6E-05	1.9E-05	1.8E-05	1.3E-05	4.0E-05	5.7E-05
4B	5103-74-2	GAMMA-CHLORDANE	7.65E-05	1.1E-09	11	5.0E-09	7.4E-09	1.2E-08	2.5E-08	5.7E-08	8.5E-08	1.0E-07	1.1E-07	1.1E-07	1.1E-07	1.1E-07	1.0E-07	9.3E-08	6.6E-08	4.4E-08	3.1E-08	1.1E-08	9.9E-09	7.2E-09	2.2E-08	3.1E-08
4B	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	3.37E-02	4.9E-07	11	2.2E-06	3.3E-06	5.3E-06	1.1E-05	2.5E-05	3.8E-05	4.5E-05	4.7E-05	4.8E-05	4.7E-05	4.7E-05	4.6E-05	4.1E-05	2.9E-05	2.0E-05	1.4E-05	4.7E-06	4.4E-06	3.2E-06	9.6E-06	1.4E-05
4B	53469-21-9	Aroclor 1242	1.89E-02	2.7E-07	11	1.2E-06	1.8E-06	3.0E-06	6.1E-06	1.4E-05	2.1E-05	2.5E-05	2.6E-05	2.7E-05	2.6E-05	2.6E-05	2.6E-05	2.3E-05	1.6E-05	1.1E-05	7.6E-06	2.6E-06	2.4E-06	1.8E-06	5.4E-06	7.7E-06
4B	53494-70-5	Endrin ketone	1.35E-05	1.9E-10	11	8.8E-10	1.3E-09	2.1E-09	4.4E-09	1.0E-08	1.5E-08	1.8E-08	1.9E-08	1.9E-08	1.9E-08	1.9E-08	1.9E-08	1.6E-08	1.2E-08	7.8E-09	5.5E-09	1.9E-09	1.7E-09	1.3E-09	3.8E-09	5.5E-09
4B	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.80E-01	2.6E-06	11	1.2E-05	1.7E-05	2.8E-05	5.8E-05	1.3E-04	2.0E-04	2.4E-04	2.5E-04	2.5E-04	2.5E-04	2.5E-04	2.5E-04	2.2E-04	1.6E-04	1.0E-04	7.3E-05	2.5E-05	2.3E-05	1.7E-05	5.1E-05	7.3E-05
4B	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	8.10E-03	1.2E-07	11	5.3E-07	7.8E-07	1.3E-06	2.6E-06	6.1E-06	9.0E-06	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	9.8E-06	7.0E-06	4.7E-06	3.3E-06	1.1E-06	1.0E-06	7.7E-07	2.3E-06	3.3E-06
4B	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.46E-02	5.0E-07	11	2.2E-06	3.3E-06	5.5E-06	1.1E-05	2.6E-05	3.9E-05	4.6E-05	4.8E-05	4.9E-05	4.8E-05	4.8E-05	4.7E-05	4.2E-05	3.0E-05	2.0E-05	1.4E-05	4.8E-06	4.5E-06	3.3E-06	9.8E-06	1.4E-05
4B	591-78-6	2-Hexanone	1.53E-05	2.2E-10	11	9.9E-10	1.5E-09	2.4E-09	5.0E-09	1.1E-08	1.7E-08	2.0E-08	2.1E-08	2.2E-08	2.1E-08	2.1E-08	2.1E-08	1.9E-08	1.3E-08	8.9E-09	6.2E-09	2.1E-09	2.0E-09	1.4E-09	4.3E-09	6.2E-09
4B	65-85-0	Benzoic acid	7.20E-04	1.0E-08	11	4.7E-08	6.9E-08	1.1E-07	2.3E-07	5.4E-07	8.0E-07	9.5E-07	1.0E-06	1.0E-06	1.0E-06	1.0E-06	9.9E-07	8.7E-07	6.2E-07	4.2E-07	2.9E-07	1.0E-07	9.3E-08	6.8E-08	2.0E-07	2.9E-07
4B	67-66-3	Chloroform	1.12E-01	1.6E-06	11	7.3E-06	1.1E-05	1.8E-05	3.7E-05	8.4E-05	1.3E-04	1.5E-04	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.5E-04	1.4E-04	9.7E-05	6.5E-05	4.5E-05	1.6E-05	1.5E-05	1.1E-05	3.2E-05	4.6E-05
4B	71-55-6	1,1,1-Trichloroethane	5.85E-02	8.4E-07	11	3.8E-06	5.6E-06	9.3E-06	1.9E-05	4.4E-05	6.5E-05	7.7E-05	8.2E-05	8.2E-05	8.1E-05	8.1E-05	8.0E-05	7.1E-05	5.0E-05	3.4E-05	2.4E-05	8.1E-06	7.6E-06	5.5E-06	1.7E-05	2.4E-05
4B	75-34-3	1,1-Dichloroethane	3.15E-03	4.5E-08	11	2.0E-07	3.0E-07	5.0E-07	1.0E-06	2.4E-06	3.5E-06	4.2E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.3E-06	3.8E-06	2.7E-06	1.8E-06	1.3E-06	4.4E-07	4.1E-07	3.0E-07	8.9E-07	1.3E-06
4B	75-35-4	1,1-Dichloroethene	1.93E-05	2.8E-10	11	1.3E-09	1.9E-09	3.1E-09	6.3E-09	1.4E-08	2.2E-08	2.6E-08	2.7E-08	2.7E-08	2.7E-08	2.7E-08	2.7E-08	2.4E-08	1.7E-08	1.1E-08	7.8E-09	2.7E-09	2.5E-09	1.8E-09	5.5E-09	7.8E-09
4B	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.87E-02	5.6E-07	11	2.5E-06	3.7E-06	6.1E-06	1.3E-05	2.9E-05	4.3E-05	5.1E-05	5.4E-05	5.5E-05	5.4E-05	5.4E-05	5.3E-05	4.7E-05	3.3E-05	2.2E-05	1.6E-05	5.4E-06	5.0E-06	3.7E-06	1.1E-05	1.6E-05
4B	79-34-5	1,1,2,2-Tetrachloroethane	4.23E-04	6.1E-09	11	2.7E-08	4.1E-08	6.7E-08	1.4E-07	3.2E-07	4.7E-07	5.6E-07	5.9E-07	6.0E-07	5.9E-07	5.9E-07	5.8E-07	5.1E-07	3.6E-07	2.5E-07	1.7E-07	5.9E-08	5.5E-08	4.0E-08	1.2E-07	1.7E-07
4B	87-61-6	1,2,3-Trichlorobenzene	5.85E-06	8.4E-11	11	3.8E-10	5.6E-10	9.3E-10	1.9E-09	4.4E-09	6.5E-09	7.7E-09	8.2E-09	8.2E-09	8.1E-09	8.1E-09	8.0E-09	7.1E-09	5.0E-09	3.4E-09	2.4E-09	8.1E-10	7.6E-10	5.5E-10	1.7E-09	2.4E-09
4B	91-17-8	DECAHYDRONAPHTHALENE	6.75E-02	9.7E-07	11	4.4E-06	6.5E-06	1.1E-05	2.2E-05	5.1E-05	7.5E-05	8.9E-05	9.4E-05	9.5E-05	9.4E-05	9.4E-05	9.3E-05	8.2E-05	5.8E-05	3.9E-05	2.7E-05	9.3E-06	8.7E-06	6.4E-06	1.9E-05	2.7E-05
4B	941-60-6	1,1,4-6-TETRAMETHYLINDANE	9.00E-03	1.3E-07	11	5.8E-07	8.7E-07	1.4E-06	2.9E-06	6.7E-06	1.0E-05	1.2E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.2E-05	1.1E-05	7.8E-06	5.2E-06	3.6E-06	1.2E-06	1.2E-06	8.5E-07	2.5E-06	3.6E-06
4B	96-12-8	1,2-Dibromo-3-Chloropropane	2.65E-05	3.8E-10	11	1.7E-09	2.6E-09	4.2E-09	8.6E-09	2.0E-08	3.0E-08	3.5E-08	3.7E-08	3.7E-08	3.7E-08	3.7E-08	3.6E-08	3.2E-08	2.3E-08	1.5E-08	1.1E-08	3.7E-09	3.4E-09	2.5E-09	7.5E-09	1.1E-08
4B	98-06-6	tert-Butylbenzene	1.21E-05	1.7E-10	11	7.9E-10	1.2E-09	1.9E-09	3.9E-09	9.1E-09	1.4E-08	1.6E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08	1.5E-08	1.0E-08	7.0E-09	4.9E-09	1.7E-09	1.6E-09	1.1E-09	3.4E-09	4.9E-09
4C	100-41-4	Ethylbenzene	5.71E-02	8.2E-07	12	3.1E-06	3.9E-06	5.1E-06	6.8E-06	8.9E-06	1.1E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.3E-05	1.3E-05	1.2E-05	1.1E-05	1.0E-05	5.5E-06	4.8E-06	4.3E-06	7.1E-06	8.0E-06
4C	100-42-5	Styrene	3.58E-02	5.1E-07	12	1.9E-06	2.4E-06	3.2E-06	4.3E-06	5.6E-06	7.0E-06	8.0E-06	8.6E-06	8.9E-06	8.8E-06	8.6E-06	8.4E-06	8.2E-06	7.7E-06	7.1E-06	6.4E-06	3.5E-06	3.0E-06	2.7E-06	4.4E-06	5.0E-06
4C	103-65-1	n-Propylbenzene	7.02E-03	1.0E-07	12	3.8E-07	4.8E-07	6.3E-07	8.4E-07	1.1E-06	1.4E-06	1.6E-06	1.7E-06	1.7E-06	1.7E-06	1.7E-06	1.7E-06	1.6E-06	1.5E-06	1.4E-06	1.3E-06	6.8E-07	5.9E-07	5.2E-07	8.7E-07	9.9E-07
4C	104-51-8	n-Butylbenzene	1.27E-03	1.8E-08	12	6.8E-08	8.6E-08	1.1E-07	1.5E-07	2.0E-07	2.5E-07	2.8E-07	3.1E-07	3.1E-07	3.1E-07	3.0E-07	3.0E-07	2.9E-07	2.7E-07	2.5E-07	2.3E-07	1.2E-07	1.1E-07	9.4E-08	1.6E-07	1.8E-07
4C	108-67-8	1,3,5-Trimethylbenzene	3.94E-03	5.7E-08	12	2.1E-07	2.7E-07	3.5E-07	4.7E-07	6.1E-07	7.6E-07	8.8E-07	9.5E-07	9.7E-07	9.6E-07	9.5E-07	9.3E-07	9.0E-07	8.5E-07	7.8E-07	7.0E-07	3.8E-07	3.3E-07	2.9E-07	4.9E-07	5.5E-07
4C	108-88-3	Toluene	4.27E-03	6.1E-08	12	2.3E-07	2.9E-07	3.8E-07	5.1E-07	6.6E-07	8.3E-07	9.6E-07	1.0E-06	1.1E-06	1.0E-06	1.0E-06	1.0E-06	9.8E-07	9.2E-07	8.5E-07	7.6E-07	4.1E-07	3.6E-07	3.2E-07	5.3E-07	6.0E-07
4C	11096-82-5	Aroclor 1260	3.78E-04	5.4E-09	12	2.0E-08	2.6E-08	3.4E-08	4.5E-08	5.9E-08	7.3E-08	8.5E-08	9.1E-08	9.3E-08	9.2E-08	9.1E-08	8.9E-08	8.6E-08	8.1E-08	7.5E-08	6.7E-08	3.6E-08	3.1E-08	2.8E-08	4.7E-08	5.3E-08
4C	120-12-7	Anthracene	3.50E-03	5.0E-08	12	1.9E-07	2.4E-07	3.1E-07	4.2E-07	5.4E-07	6.8E-07	7.9E-07	8.5E-07	8.7E-07	8.6E-07	8.4E-07	8.3E-07	8.0E-07	7.6E-07	7.0E-07	6.2E-07	3.4E-07	2.9E-07	2.6E-07	4.3E-07	4.9E-07
4C	129-00-0	Pyrene	1.11E-03	1.6E-08	12	6.0E-08	7.6E-08	9.9E-08	1.3E-07	1.7E-07	2.2E-07	2.5E-07	2.7E-07	2.8E-07	2.7E-07	2.7E-07	2.6E-07	2.5E-07	2.4E-07	2.2E-07	2.0E-07	1.1E-07	9.3E-08	8.3E-08	1.4E-07	1.6E-07

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4C	1330-20-7	XYLENES (TOTAL)	2.17E-02	3.1E-07	12	1.2E-06	1.5E-06	1.9E-06	2.6E-06	3.4E-06	4.2E-06	4.9E-06	5.2E-06	5.4E-06	5.3E-06	5.2E-06	5.1E-06	5.0E-06	4.7E-06	4.3E-06	3.9E-06	2.1E-06	1.8E-06	1.6E-06	2.7E-06	3.0E-06
4C	135-98-8	(1-METHYLPROPYL)BENZENE	3.11E-02	4.5E-07	12	1.7E-06	2.1E-06	2.8E-06	3.7E-06	4.8E-06	6.0E-06	7.0E-06	7.5E-06	7.7E-06	7.6E-06	7.5E-06	7.3E-06	7.1E-06	6.7E-06	6.2E-06	5.5E-06	3.0E-06	2.6E-06	2.3E-06	3.9E-06	4.4E-06
4C	179601-23-1	m,p-Xylenes	9.72E-03	1.4E-07	12	5.3E-07	6.6E-07	8.7E-07	1.2E-06	1.5E-06	1.9E-06	2.2E-06	2.3E-06	2.4E-06	2.4E-06	2.3E-06	2.3E-06	2.2E-06	2.1E-06	1.9E-06	1.7E-06	9.4E-07	8.1E-07	7.2E-07	1.2E-06	1.4E-06
4C	67-64-1	2-PROPANONE	8.31E-03	1.2E-07	12	4.5E-07	5.7E-07	7.4E-07	9.9E-07	1.3E-06	1.6E-06	1.9E-06	2.0E-06	2.1E-06	2.0E-06	2.0E-06	2.0E-06	1.9E-06	1.8E-06	1.6E-06	1.5E-06	8.0E-07	6.9E-07	6.2E-07	1.0E-06	1.2E-06
4C	71-43-2	Benzene	2.68E-03	3.9E-08	12	1.4E-07	1.8E-07	2.4E-07	3.2E-07	4.2E-07	5.2E-07	6.0E-07	6.5E-07	6.6E-07	6.6E-07	6.4E-07	6.3E-07	6.1E-07	5.8E-07	5.3E-07	4.8E-07	2.6E-07	2.2E-07	2.0E-07	3.3E-07	3.8E-07
4C	7421-93-4	Endrin aldehyde	8.85E-06	1.3E-10	12	4.8E-10	6.0E-10	7.9E-10	1.1E-09	1.4E-09	1.7E-09	2.0E-09	2.1E-09	2.2E-09	2.2E-09	2.1E-09	2.1E-09	2.0E-09	1.9E-09	1.8E-09	1.6E-09	8.5E-10	7.4E-10	6.6E-10	1.1E-09	1.2E-09
4C	7439-98-7	Molybdenum	7.94E-03	1.1E-07	12	4.3E-07	5.4E-07	7.1E-07	9.4E-07	1.2E-06	1.5E-06	1.8E-06	1.9E-06	2.0E-06	1.9E-06	1.9E-06	1.9E-06	1.8E-06	1.7E-06	1.6E-06	1.4E-06	7.7E-07	6.6E-07	5.9E-07	9.9E-07	1.1E-06
4C	75-09-2	Methylene Chloride	3.64E-03	5.2E-08	12	2.0E-07	2.5E-07	3.2E-07	4.3E-07	5.6E-07	7.1E-07	8.2E-07	8.8E-07	9.0E-07	8.9E-07	8.7E-07	8.6E-07	8.3E-07	7.8E-07	7.2E-07	6.5E-07	3.5E-07	3.0E-07	2.7E-07	4.5E-07	5.1E-07
4C	75-69-4	Trichlorofluoromethane	1.22E-03	1.8E-08	12	6.6E-08	8.3E-08	1.1E-07	1.4E-07	1.9E-07	2.4E-07	2.7E-07	2.9E-07	3.0E-07	3.0E-07	2.9E-07	2.9E-07	2.8E-07	2.6E-07	2.4E-07	2.2E-07	1.2E-07	1.0E-07	9.1E-08	1.5E-07	1.7E-07
4C	78-93-3	2-Butanone	2.36E-03	3.4E-08	12	1.3E-07	1.6E-07	2.1E-07	2.8E-07	3.7E-07	4.6E-07	5.3E-07	5.7E-07	5.8E-07	5.8E-07	5.7E-07	5.6E-07	5.4E-07	5.1E-07	4.7E-07	4.2E-07	2.3E-07	2.0E-07	1.8E-07	2.9E-07	3.3E-07
4C	83-32-9	Acenaphthene	9.07E-04	1.3E-08	12	4.9E-08	6.2E-08	8.1E-08	1.1E-07	1.4E-07	1.8E-07	2.0E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.1E-07	2.1E-07	2.0E-07	1.8E-07	1.6E-07	8.8E-08	7.6E-08	6.8E-08	1.1E-07	1.3E-07
4C	85-01-8	Phenanthrene	3.41E-01	4.9E-06	12	1.8E-05	2.3E-05	3.0E-05	4.1E-05	5.3E-05	6.6E-05	7.7E-05	8.2E-05	8.4E-05	8.3E-05	8.2E-05	8.0E-05	7.8E-05	7.4E-05	6.8E-05	6.1E-05	3.3E-05	2.8E-05	2.5E-05	4.2E-05	4.8E-05
4C	86-73-7	Fluorene	5.50E-03	7.9E-08	12	3.0E-07	3.7E-07	4.9E-07	6.5E-07	8.5E-07	1.1E-06	1.2E-06	1.3E-06	1.4E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.2E-06	1.1E-06	9.8E-07	5.3E-07	4.6E-07	4.1E-07	6.8E-07	7.7E-07
4C	91-20-3	Naphthalene	4.28E-02	6.2E-07	12	2.3E-06	2.9E-06	3.8E-06	5.1E-06	6.6E-06	8.3E-06	9.6E-06	1.0E-05	1.1E-05	1.0E-05	1.0E-05	1.0E-05	9.8E-06	9.2E-06	8.5E-06	7.6E-06	4.1E-06	3.6E-06	3.2E-06	5.3E-06	6.0E-06
4C	91-57-6	2-Methylnaphthalene	1.86E-02	2.7E-07	12	1.0E-06	1.3E-06	1.7E-06	2.2E-06	2.9E-06	3.6E-06	4.2E-06	4.5E-06	4.6E-06	4.5E-06	4.5E-06	4.4E-06	4.2E-06	4.0E-06	3.7E-06	3.3E-06	1.8E-06	1.5E-06	1.4E-06	2.3E-06	2.6E-06
4C	95-47-6	o-Xylene	4.66E-03	6.7E-08	12	2.5E-07	3.2E-07	4.2E-07	5.5E-07	7.2E-07	9.0E-07	1.0E-06	1.1E-06	1.2E-06	1.1E-06	1.1E-06	1.1E-06	1.1E-06	1.0E-06	9.2E-07	8.3E-07	4.5E-07	3.9E-07	3.5E-07	5.8E-07	6.5E-07
4C	95-50-1	1,2-Dichlorobenzene	6.83E-04	9.8E-09	12	3.7E-08	4.7E-08	6.1E-08	8.1E-08	1.1E-07	1.3E-07	1.5E-07	1.7E-07	1.7E-07	1.7E-07	1.6E-07	1.6E-07	1.6E-07	1.5E-07	1.4E-07	1.2E-07	6.6E-08	5.7E-08	5.1E-08	8.5E-08	9.6E-08
4C	95-63-6	1,2,4-Trimethylbenzene	1.20E-02	1.7E-07	12	6.5E-07	8.2E-07	1.1E-06	1.4E-06	1.9E-06	2.3E-06	2.7E-06	2.9E-06	3.0E-06	2.9E-06	2.9E-06	2.8E-06	2.7E-06	2.6E-06	2.4E-06	2.1E-06	1.2E-06	1.0E-06	8.9E-07	1.5E-06	1.7E-06
4C	98-82-8	1-METHYLETHYLBENZENE	3.48E-02	5.0E-07	12	1.9E-06	2.4E-06	3.1E-06	4.1E-06	5.4E-06	6.7E-06	7.8E-06	8.4E-06	8.6E-06	8.5E-06	8.3E-06	8.2E-06	7.9E-06	7.5E-06	6.9E-06	6.2E-06	3.4E-06	2.9E-06	2.6E-06	4.3E-06	4.9E-06
4C	10042-59-8	2-PROPYL-1-HEPTANOL	8.32E-02	1.2E-06	12	4.5E-06	5.7E-06	7.4E-06	9.9E-06	1.3E-05	1.6E-05	1.9E-05	2.0E-05	2.1E-05	2.0E-05	2.0E-05	2.0E-05	1.9E-05	1.8E-05	1.7E-05	1.5E-05	8.0E-06	6.9E-06	6.2E-06	1.0E-05	1.2E-05
4C	1031-07-8	Endosulfan sulfate	1.88E-05	2.7E-10	12	1.0E-09	1.3E-09	1.7E-09	2.2E-09	2.9E-09	3.7E-09	4.2E-09	4.6E-09	4.7E-09	4.6E-09	4.5E-09	4.4E-09	4.3E-09	4.1E-09	3.7E-09	3.4E-09	1.8E-09	1.6E-09	1.4E-09	2.3E-09	2.6E-09
4C	106-42-3	P-XYLENE	1.71E-03	2.5E-08	12	9.2E-08	1.2E-07	1.5E-07	2.0E-07	2.7E-07	3.3E-07	3.8E-07	4.1E-07	4.2E-07	4.2E-07	4.1E-07	4.0E-07	3.9E-07	3.7E-07	3.4E-07	3.0E-07	1.7E-07	1.4E-07	1.3E-07	2.1E-07	2.4E-07
4C	106-43-4	4-Chlorotoluene	5.26E-03	7.6E-08	12	2.8E-07	3.6E-07	4.7E-07	6.3E-07	8.2E-07	1.0E-06	1.2E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.2E-06	1.2E-06	1.1E-06	1.0E-06	9.4E-07	5.1E-07	4.4E-07	3.9E-07	6.5E-07	7.4E-07
4C	106-46-7	1,4-Dichlorobenzene	1.01E-03	1.4E-08	12	5.4E-08	6.9E-08	9.0E-08	1.2E-07	1.6E-07	2.0E-07	2.3E-07	2.4E-07	2.5E-07	2.5E-07	2.4E-07	2.4E-07	2.3E-07	2.2E-07	2.0E-07	1.8E-07	9.7E-08	8.4E-08	7.5E-08	1.3E-07	1.4E-07
4C	106-93-4	1,2-Dibromoethane	2.67E-05	3.8E-10	12	1.4E-09	1.8E-09	2.4E-09	3.2E-09	4.1E-09	5.2E-09	6.0E-09	6.5E-09	6.6E-09	6.5E-09	6.4E-09	6.3E-09	6.1E-09	5.8E-09	5.3E-09	4.8E-09	2.6E-09	2.2E-09	2.0E-09	3.3E-09	3.7E-09
4C	107-06-2	1,2-Dichloroethane	4.38E-02	6.3E-07	12	2.4E-06	3.0E-06	3.9E-06	5.2E-06	6.8E-06	8.5E-06	9.8E-06	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.0E-05	1.0E-05	9.4E-06	8.7E-06	7.8E-06	4.2E-06	3.7E-06	3.3E-06	5.4E-06	6.1E-06
4C	108-38-3	M-XYLENE	1.18E-01	1.7E-06	12	6.4E-06	8.1E-06	1.1E-05	1.4E-05	1.8E-05	2.3E-05	2.7E-05	2.9E-05	2.9E-05	2.9E-05	2.8E-05	2.8E-05	2.7E-05	2.6E-05	2.3E-05	2.1E-05	1.1E-05	9.9E-06	8.8E-06	1.5E-05	1.7E-05
4C	108-90-7	Chlorobenzene	2.89E-02	4.2E-07	12	1.6E-06	2.0E-06	2.6E-06	3.4E-06	4.5E-06	5.6E-06	6.5E-06	7.0E-06	7.2E-06	7.1E-06	6.9E-06	6.8E-06	6.6E-06	6.2E-06	5.7E-06	5.2E-06	2.8E-06	2.4E-06	2.2E-06	3.6E-06	4.1E-06
4C	11097-69-1	Aroclor 1254	2.67E-02	3.8E-07	12	1.4E-06	1.8E-06	2.4E-06	3.2E-06	4.1E-06	5.2E-06	6.0E-06	6.5E-06	6.6E-06	6.5E-06	6.4E-06	6.3E-06	6.1E-06	5.8E-06	5.3E-06	4.8E-06	2.6E-06	2.2E-06	2.0E-06	3.3E-06	3.7E-06
4C	120-82-1	1,2,4-Trichlorobenzene	4.38E-06	6.3E-11	12	2.4E-10	3.0E-10	3.9E-10	5.2E-10	6.8E-10	8.5E-10	9.8E-10	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.0E-09	1.0E-09	9.4E-10	8.7E-10	7.8E-10	4.2E-10	3.7E-10	3.3E-10	5.4E-10	6.1E-10
4C	12672-29-6	Aroclor 1248	2.28E-02	3.3E-07	12	1.2E-06	1.6E-06	2.0E-06	2.7E-06	3.5E-06	4.4E-06	5.1E-06	5.5E-06	5.6E-06	5.6E-06	5.5E-06	5.4E-06	5.2E-06	4.9E-06	4.5E-06	4.1E-06	2.2E-06	1.9E-06	1.7E-06	2.8E-06	3.2E-06
4C	12674-11-2	Aroclor 1016	7.01E-03	1.0E-07	12	3.8E-07	4.8E-07	6.3E-07	8.3E-07	1.1E-06	1.4E-06	1.6E-06	1.7E-06	1.7E-06	1.7E-06	1.7E-06	1.7E-06	1.6E-06	1.5E-06	1.4E-06	1.2E-06	6.8E-07	5.8E-07	5.2E-07	8.7E-07	9.8E-07
4C	127-18-4	Tetrachloroethene	3.42E-05	4.9E-10	12	1.8E-09	2.3E-09	3.1E-09	4.1E-09	5.3E-09	6.6E-09	7.7E-09	8.3E-09	8.5E-09	8.4E-09	8.2E-09	8.1E-09	7.8E-09	7.4E-09	6.8E-09	6.1E-09	3.3E-09	2.8E-09	2.5E-09	4.2E-09	4.8E-09
4C	132-64-9	Dibenzofuran	2.36E-03	3.4E-08	12	1.3E-07	1.6E-07	2.1E-07	2.8E-07	3.7E-07	4.6E-07	5.3E-07	5.7E-07	5.9E-07	5.8E-07	5.7E-07	5.6E-07	5.4E-07	5.1E-07	4.7E-07	4.2E-07	2.3E-07	2.0E-07	1.8E-07	2.9E-07	3.3E-07
4C	1653-40-3	6-METHYL-1,1-HEPTANOL	1.31E-01	1.9E-06	12	7.1E-06	9.0E-06	1.2E-05	1.6E-05	2.0E-05	2.6E-05	2.9E-05	3.2E-05	3.3E-05	3.2E-05	3.2E-05	3.1E-05	3.0E-05	2.8E-05	2.6E-05	2.3E-05	1.3E-05	1.1E-05	9.8E-06	1.6E-05	1.8E-05
4C	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.45E-02	2.1E-07	12	7.8E-07	9.9E-07	1.3E-06	1.7E-06	2.2E-06	2.8E-06	3.2E-06	3.5E-06	3.6E-06	3.5E-06	3.5E-06	3.4E-06	3.3E-06	3.1E-06	2.9E-06	2.6E-06	1.4E-06	1.2E-06	1.1E-06	1.8E-06	2.0E-06
4C	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.64E-02	5.2E-07	12	2.0E-06	2.5E-06	3.2E-06	4.3E-06	5.6E-06	7.1E-06	8.2E-06	8.8E-06	9.0E-06	8.9E-06	8.7E-06	8.6E-06	8.3E-06	7.8E-06	7.2E-06	6.5E-06	3.5E-06	3.0E-06	2.7E-06	4.5E-06	5.1E-06
4C	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.80E-02	2.6E-07	12	9.7E-07	1.2E-06	1.6E-06	2.1E-06	2.8E-06	3.5E-06	4.0E-06	4.3E-06	4.4E-06	4.4E-06	4.3E-06	4.2E-06	4.1E-06	3.9E-06	3.6E-06	3.2E-06	1.7E-06	1.5E-06	1.3E-06	2.2E-06	2.5E-06
4C	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.49E-02	2.1E-07	12	8.1E-07	1.0E-06	1.3E-06	1.8E-06	2.3E-06	2.9E-06	3.3E-06	3.6E-06	3.7E-06	3.6E-06	3.6E-06	3.5E-06	3.4E-06	3.2E-06	3.0E-06	2.7E-06	1.4E-06	1.2E-06	1.1E-06	1.8E-06	2.1E-06
4C	26952-21-6	ISOOCTANOL	4.82E-02	6.9E-07	12	2.6E-06	3.3E-06	4.3E-06	5.7E-06	7.5E-06	9.4E-06	1.1E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.1E-05	1.1E-05	1.0E-05	9.6E-06	8.6E-06	4.7E-06	4.0E-06	3.6E-06	6.0E-06	6.8E-06
4C	2719-52-0	(1-METHYLBUTYL)BENZENE	2.67E-02	3.8E-07	12	1.4E-06	1.8E-06	2.4E-06	3.2E-06	4.1E-06	5.2E-06	6.0E-06	6.5E-06	6.6E-06	6.5E-06	6.4E-06	6.3E-06	6.1E-06	5.8E-06	5.3E-06	4.8E-06	2.6E-06	2.2E-06	2.0E-06	3.3E-06	3.7E-06
4C	2883-05-8	2-CYCLOHEXYLDECANE	3.55E-02	5.1E-07	12	1.9E-06	2.4E-06	3.2E-06	4.2E-06	5.5E-06	6.9E-06	8.0E-06	8.6E-06	8.8E-06	8.7E-06	8.5E-06	8.4E-06	8.1E-06	7.7E-06	7.0E-06	6.3E-06	3.4E-06	3.0E-06	2.6E-06	4.4E-06	5.0E-06
4C	33213-65-9	Endosulfan II	4.82E-05	6.9E-10	12	2.6E-09	3.3E-09	4.3E-09	5.7E-09	7.5E-09	9.4E-09	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.1E-08	1.1E-08	1.0E-08	9.6E-09	8.6E-09	4.7E-09	4.0E-09	3.6E-09	6.0E-09	6.8E-09
4C	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.84E-02	2.6E-07	12	9.9E-07	1.3E-06	1.6E-06	2.2E-06	2.9E-06	3.6E-06	4.1E-06	4.4E-06	4.6E-06	4.5E-06	4.4E-06	4.3E-06	4.2E-06	4.0E-06	3.7E-06	3.3E-06	1.8E-06	1.5E-06	1.4E-06	2.3E-06	2.6E-06
4C	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.18E-02	1.7E-07	12	6.4E-07	8.1E-07	1.1E-06	1.4E-06	1.8E-06	2.3E-06	2.7E-06	2.9E-06	2.9E-06	2.9E-06	2.8E-06	2.8E-06	2.7E-06	2.6E-06	2.3E-06	2.1E-06	1.1E-06	9.9E-07	8.8E-07	1.5E-06	1.7E-06
4C	496-10-6	OCTAHYDROINDENE	1.36E-01	2.0E-06	12	7.3E-06	9.3E-06	1.2E-05	1.6E-05	2.1E-05	2.6E-05	3.0E-05	3.3E-05	3.4E-05	3.3E-05	3.3E-05	3.2E-05	3.1E-05	2.9E-05	2.7E-05	2.4E-05	1.3E-05	1.1E-05	1.0E-05	1.7E-05	1.9E-05
4C	5103-74-2	GAMMA-CHLORDANE	7.45E-05	1.1E-09	12	4.0E-09	5.1E-09	6.6E-09	8.9E-09	1.2E-08	1.4E-08	1.7E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.8E-08	1.7E-08	1.6E-08	1.5E-08	1.3E-08	7.2E-09	6.2E-09	5.5E-09	9.2E-09	1.0E-08
4C	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	3.28E-02	4.7E-07	12	1.8E-06	2.2E-06	2.9E-06	3.9E-06	5.1E-06	6.4E-06	7.4E-06	7.9E-06	8.1E-06	8.0E-06	7.9E-06	7.7E-06	7.5E-06	7.1E-06	6.5E-06	5.9E-06	3.2E-06	2.7E-06	2.4E-06	4.1E-06	4.6E-06
4C	53469-21-9	Aroclor 1242	1.84E-02	2.6E-07	12	9.9E-07	1.3E-06	1.6E-06	2.2E-06	2.9E-06	3.6E-06	4.1E-06	4.4E-06	4.6E-06	4.5E-06	4.4E-06	4.3E-06	4.2E-06	4.0E-06	3.7E-06	3.3E-06	1.8E-06	1.5E-06	1.4E-06	2.3E-06	2.6E-06
4C	53494-70-5	Endrin ketone	1.31E-05	1.9E-10	12	7.1E-10	9.0E-10	1.2E-09	1.6E-09	2.0E-09	2.6E-09	2.9E-09	3.2E-09	3.3E-09	3.2E-09	3.2E-09	3.1E-09	3.0E-09	2.8E-09	2.6E-09	2.3E-09	1.3E-09	1.1E-09	9.8E-10	1.6E-09	1.8E-09
4C	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.75E-01	2.5E-06	12	9.5E-06	1.2E-05	1.6E-05	2.1E-05	2.7E-05	3.4E-05	3.9E-05	4.2E-05	4.3E-05	4.3E-05	4.2E-05	4.1E-05	4.0E-05	3.8E-05	3.5E-05	3.1E-05	1.7E-05	1.5E-05	1.3E-05	2.2E-05	2.5E-05
4C	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	7.88E-03	1.1E-07	12	4.3E-07	5.4E-07	7.0E-07	9.4E-07	1.2E-06	1.5E-06	1.8E-06	1.9E-06	2.0E-06	1.9E-06	1.9E-06	1.9E-06	1.8E-06	1.7E-06	1.6E-06	1.4E-06	7.6E-07	6.6E-07	5.9E-07	9.8E-07	1.1E-06
4C	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.37E-02	4.8E-07	12	1.8E-06	2.3E-06	3.0E-06	4.0E-06	5.2E-06	6.5E-06	7.6E-06	8.1E-06	8.3E-06	8.2E-06	8.1E-06	8.0E-06	7.7E-06	7.3E-06	6.7E-06	6.0E-06	3.3E-06	2.8E-06	2.5E-06	4.2E-06	4.7E-06
4C	591-78-6	2-Hexanone	1.49E-05	2.1E-10	12	8.1E-10	1.0E-09	1.3E-09	1.8E-09	2.3E-09	2.9E-09	3.3E-09	3.6E-09	3.7E-09	3.6E-09	3.6E-09	3.5E-09	3.4E-09	3.2E-09	3.0E-09	2.7E-09	1.4E-09	1.2E-09	1.1E-09	1.8E-09	2.1E-09
4C	65-85-0	Benzoic acid	7.01E-04	1.0E-08	12	3.8E-08	4.8E-08	6.3E-08	8.3E-08	1.1E-07	1.4E-07	1.6E-07	1.7E-07	1.7E-07	1.7E-07	1.7E-07	1.7E-07	1.6E-07	1.5E-07	1.4E-07	1.2E-07	6.8E-08	5.8E-08	5.2E-08	8.7E-08	9.8E-08
4C	67-66-3	Chloroform	1.09E-01	1.6E-06	12	5.9E-06	7.5E-06	9.8E-06	1.3E-05	1.7E-05	2.1E-05	2.5E-05	2.6E-05	2.7E-05	2.7E-05	2.6E-05	2.6E-05	2.5E-05	2.4E-05	2.2E-05	2.0E-05	1.1E-05	9.1E-06	8.2E-06	1.4E-05	1.5E-05

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4C	71-55-6	1,1,1-Trichloroethane	5.69E-02	8.2E-07	12	3.1E-06	3.9E-06	5.1E-06	6.8E-06	8.8E-06	1.1E-05	1.3E-05	1.4E-05	1.4E-05	1.4E-05	1.4E-05	1.3E-05	1.3E-05	1.2E-05	1.1E-05	1.0E-05	5.5E-06	4.7E-06	4.2E-06	7.1E-06	8.0E-06
4C	75-34-3	1,1-Dichloroethane	3.07E-03	4.4E-08	12	1.7E-07	2.1E-07	2.7E-07	3.6E-07	4.8E-07	6.0E-07	6.9E-07	7.4E-07	7.6E-07	7.5E-07	7.4E-07	7.2E-07	7.0E-07	6.6E-07	6.1E-07	5.5E-07	3.0E-07	2.6E-07	2.3E-07	3.8E-07	4.3E-07
4C	75-35-4	1,1-Dichloroethene	1.88E-05	2.7E-10	12	1.0E-09	1.3E-09	1.7E-09	2.2E-09	2.9E-09	3.7E-09	4.2E-09	4.6E-09	4.7E-09	4.6E-09	4.5E-09	4.4E-09	4.3E-09	4.1E-09	3.7E-09	3.4E-09	1.8E-09	1.6E-09	1.4E-09	2.3E-09	2.6E-09
4C	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.77E-02	5.4E-07	12	2.0E-06	2.6E-06	3.4E-06	4.5E-06	5.9E-06	7.3E-06	8.5E-06	9.1E-06	9.3E-06	9.2E-06	9.0E-06	8.9E-06	8.6E-06	8.1E-06	7.5E-06	6.7E-06	3.6E-06	3.1E-06	2.8E-06	4.7E-06	5.3E-06
4C	79-34-5	1,1,2,2-Tetrachloroethane	4.12E-04	5.9E-09	12	2.2E-08	2.8E-08	3.7E-08	4.9E-08	6.4E-08	8.0E-08	9.2E-08	9.9E-08	1.0E-07	1.0E-07	9.9E-08	9.7E-08	9.4E-08	8.9E-08	8.2E-08	7.3E-08	4.0E-08	3.4E-08	3.1E-08	5.1E-08	5.8E-08
4C	87-61-6	1,2,3-Trichlorobenzene	5.69E-06	8.2E-11	12	3.1E-10	3.9E-10	5.1E-10	6.8E-10	8.8E-10	1.1E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.4E-09	1.3E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	5.5E-10	4.7E-10	4.2E-10	7.1E-10	8.0E-10
4C	91-17-8	DECAHYDRONAPHTHALENE	6.57E-02	9.4E-07	12	3.6E-06	4.5E-06	5.9E-06	7.8E-06	1.0E-05	1.3E-05	1.5E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.5E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	6.3E-06	5.5E-06	4.9E-06	8.2E-06	9.2E-06
4C	941-60-6	1,1,4-6-TETRAMETHYLINDANE	8.76E-03	1.3E-07	12	4.7E-07	6.0E-07	7.8E-07	1.0E-06	1.4E-06	1.7E-06	2.0E-06	2.1E-06	2.2E-06	2.1E-06	2.1E-06	2.1E-06	2.0E-06	1.9E-06	1.7E-06	1.6E-06	8.5E-07	7.3E-07	6.5E-07	1.1E-06	1.2E-06
4C	96-12-8	1,2-Dibromo-3-Chloropropane	2.58E-05	3.7E-10	12	1.4E-09	1.8E-09	2.3E-09	3.1E-09	4.0E-09	5.0E-09	5.8E-09	6.2E-09	6.4E-09	6.3E-09	6.2E-09	6.1E-09	5.9E-09	5.6E-09	5.1E-09	4.6E-09	2.5E-09	2.2E-09	1.9E-09	3.2E-09	3.6E-09
4C	98-06-6	tert-Butylbenzene	1.18E-05	1.7E-10	12	6.4E-10	8.1E-10	1.1E-09	1.4E-09	1.8E-09	2.3E-09	2.7E-09	2.9E-09	2.9E-09	2.9E-09	2.8E-09	2.8E-09	2.7E-09	2.6E-09	2.3E-09	2.1E-09	1.1E-09	9.9E-10	8.8E-10	1.5E-09	1.7E-09
4D	100-41-4	Ethylbenzene	1.17E-01	1.7E-06	13	3.1E-05	5.5E-05	7.1E-05	7.4E-05	5.6E-05	4.0E-05	3.0E-05	2.4E-05	2.0E-05	1.7E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	1.1E-05	9.9E-06	6.8E-06	6.1E-06	5.7E-06	8.2E-06	9.4E-06
4D	100-42-5	Styrene	7.34E-02	1.1E-06	13	2.0E-05	3.5E-05	4.4E-05	4.6E-05	3.5E-05	2.5E-05	1.9E-05	1.5E-05	1.2E-05	1.1E-05	9.5E-06	8.6E-06	7.9E-06	7.3E-06	6.7E-06	6.2E-06	4.3E-06	3.8E-06	3.6E-06	5.1E-06	5.9E-06
4D	103-65-1	n-Propylbenzene	1.44E-02	2.1E-07	13	3.9E-06	6.8E-06	8.7E-06	9.1E-06	6.9E-06	4.9E-06	3.7E-06	2.9E-06	2.4E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.3E-06	1.2E-06	8.3E-07	7.5E-07	7.0E-07	1.0E-06	1.2E-06
4D	104-51-8	n-Butylbenzene	2.59E-03	3.7E-08	13	6.9E-07	1.2E-06	1.6E-06	1.6E-06	1.3E-06	8.8E-07	6.6E-07	5.3E-07	4.4E-07	3.8E-07	3.3E-07	3.0E-07	2.8E-07	2.6E-07	2.4E-07	2.2E-07	1.5E-07	1.4E-07	1.3E-07	1.8E-07	2.1E-07
4D	108-67-8	1,3,5-Trimethylbenzene	8.07E-03	1.2E-07	13	2.2E-06	3.8E-06	4.9E-06	5.1E-06	3.9E-06	2.7E-06	2.1E-06	1.6E-06	1.4E-06	1.2E-06	1.0E-06	9.4E-07	8.7E-07	8.0E-07	7.4E-07	6.9E-07	4.7E-07	4.2E-07	3.9E-07	5.6E-07	6.5E-07
4D	108-88-3	Toluene	8.76E-03	1.3E-07	13	2.3E-06	4.1E-06	5.3E-06	5.5E-06	4.2E-06	3.0E-06	2.2E-06	1.8E-06	1.5E-06	1.3E-06	1.1E-06	1.0E-06	9.4E-07	8.7E-07	8.1E-07	7.4E-07	5.1E-07	4.6E-07	4.2E-07	6.1E-07	7.0E-07
4D	11096-82-5	Aroclor 1260	7.74E-04	1.1E-08	13	2.1E-07	3.6E-07	4.7E-07	4.9E-07	3.7E-07	2.6E-07	2.0E-07	1.6E-07	1.3E-07	1.1E-07	1.0E-07	9.1E-08	8.3E-08	7.7E-08	7.1E-08	6.6E-08	4.5E-08	4.0E-08	3.8E-08	5.4E-08	6.2E-08
4D	120-12-7	Anthracene	7.18E-03	1.0E-07	13	1.9E-06	3.4E-06	4.3E-06	4.5E-06	3.5E-06	2.4E-06	1.8E-06	1.5E-06	1.2E-06	1.0E-06	9.3E-07	8.4E-07	7.7E-07	7.1E-07	6.6E-07	6.1E-07	4.2E-07	3.7E-07	3.5E-07	5.0E-07	5.8E-07
4D	129-00-0	Pyrene	2.28E-03	3.3E-08	13	6.1E-07	1.1E-06	1.4E-06	1.4E-06	1.1E-06	7.7E-07	5.8E-07	4.7E-07	3.9E-07	3.3E-07	2.9E-07	2.7E-07	2.5E-07	2.3E-07	2.1E-07	1.9E-07	1.3E-07	1.2E-07	1.1E-07	1.6E-07	1.8E-07
4D	1330-20-7	XYLENES (TOTAL)	4.45E-02	6.4E-07	13	1.2E-05	2.1E-05	2.7E-05	2.8E-05	2.1E-05	1.5E-05	1.1E-05	9.1E-06	7.5E-06	6.5E-06	5.7E-06	5.2E-06	4.8E-06	4.4E-06	4.1E-06	3.8E-06	2.6E-06	2.3E-06	2.2E-06	3.1E-06	3.6E-06
4D	135-98-8	(1-METHYLPROPYL)BENZENE	6.38E-02	9.2E-07	13	1.7E-05	3.0E-05	3.9E-05	4.0E-05	3.1E-05	2.2E-05	1.6E-05	1.3E-05	1.1E-05	9.3E-06	8.2E-06	7.5E-06	6.9E-06	6.3E-06	5.9E-06	5.4E-06	3.7E-06	3.3E-06	3.1E-06	4.5E-06	5.1E-06
4D	179601-23-1	m,p-Xylenes	1.99E-02	2.9E-07	13	5.3E-06	9.4E-06	1.2E-05	1.3E-05	9.6E-06	6.8E-06	5.1E-06	4.1E-06	3.4E-06	2.9E-06	2.6E-06	2.3E-06	2.1E-06	2.0E-06	1.8E-06	1.7E-06	1.2E-06	1.0E-06	9.7E-07	1.4E-06	1.6E-06
4D	67-64-1	2-PROPANONE	1.70E-02	2.4E-07	13	4.6E-06	8.0E-06	1.0E-05	1.1E-05	8.2E-06	5.8E-06	4.4E-06	3.5E-06	2.9E-06	2.5E-06	2.2E-06	2.0E-06	1.8E-06	1.7E-06	1.6E-06	1.4E-06	9.9E-07	8.9E-07	8.3E-07	1.2E-06	1.4E-06
4D	71-43-2	Benzene	5.49E-03	7.9E-08	13	1.5E-06	2.6E-06	3.3E-06	3.5E-06	2.6E-06	1.9E-06	1.4E-06	1.1E-06	9.3E-07	8.0E-07	7.1E-07	6.4E-07	5.9E-07	5.5E-07	5.0E-07	4.7E-07	3.2E-07	2.9E-07	2.7E-07	3.8E-07	4.4E-07
4D	7421-93-4	Endrin aldehyde	1.81E-05	2.6E-10	13	4.9E-09	8.5E-09	1.1E-08	1.1E-08	8.7E-09	6.2E-09	4.6E-09	3.7E-09	3.1E-09	2.6E-09	2.3E-09	2.1E-09	2.0E-09	1.8E-09	1.7E-09	1.5E-09	1.1E-09	9.5E-10	8.8E-10	1.3E-09	1.5E-09
4D	7439-98-7	Molybdenum	1.63E-02	2.3E-07	13	4.4E-06	7.7E-06	9.9E-06	1.0E-05	7.8E-06	5.5E-06	4.2E-06	3.3E-06	2.8E-06	2.4E-06	2.1E-06	1.9E-06	1.8E-06	1.6E-06	1.5E-06	1.4E-06	9.4E-07	8.5E-07	7.9E-07	1.1E-06	1.3E-06
4D	75-09-2	Methylene Chloride	7.45E-03	1.1E-07	13	2.0E-06	3.5E-06	4.5E-06	4.7E-06	3.6E-06	2.5E-06	1.9E-06	1.5E-06	1.3E-06	1.1E-06	9.6E-07	8.7E-07	8.0E-07	7.4E-07	6.8E-07	6.3E-07	4.3E-07	3.9E-07	3.6E-07	5.2E-07	6.0E-07
4D	75-69-4	Trichlorofluoromethane	2.50E-03	3.6E-08	13	6.7E-07	1.2E-06	1.5E-06	1.6E-06	1.2E-06	8.5E-07	6.4E-07	5.1E-07	4.2E-07	3.6E-07	3.2E-07	2.9E-07	2.7E-07	2.5E-07	2.3E-07	2.1E-07	1.4E-07	1.3E-07	1.2E-07	1.7E-07	2.0E-07
4D	78-93-3	2-Butanone	4.83E-03	6.9E-08	13	1.3E-06	2.3E-06	2.9E-06	3.0E-06	2.3E-06	1.6E-06	1.2E-06	9.9E-07	8.2E-07	7.0E-07	6.2E-07	5.7E-07	5.2E-07	4.8E-07	4.4E-07	4.1E-07	2.8E-07	2.5E-07	2.3E-07	3.4E-07	3.9E-07
4D	83-32-9	Acenaphthene	1.86E-03	2.7E-08	13	5.0E-07	8.7E-07	1.1E-06	1.2E-06	9.0E-07	6.3E-07	4.8E-07	3.8E-07	3.2E-07	2.7E-07	2.4E-07	2.2E-07	2.0E-07	1.8E-07	1.7E-07	1.6E-07	1.1E-07	9.7E-08	9.0E-08	1.3E-07	1.5E-07
4D	85-01-8	Phenanthrene	7.00E-01	1.0E-05	13	1.9E-04	3.3E-04	4.2E-04	4.4E-04	3.4E-04	2.4E-04	1.8E-04	1.4E-04	1.2E-04	1.0E-04	9.0E-05	8.2E-05	7.5E-05	7.0E-05	6.4E-05	5.9E-05	4.1E-05	3.7E-05	3.4E-05	4.9E-05	5.6E-05
4D	86-73-7	Fluorene	1.13E-02	1.6E-07	13	3.0E-06	5.3E-06	6.8E-06	7.1E-06	5.4E-06	3.8E-06	2.9E-06	2.3E-06	1.9E-06	1.6E-06	1.5E-06	1.3E-06	1.2E-06	1.1E-06	1.0E-06	9.6E-07	6.5E-07	5.9E-07	5.5E-07	7.9E-07	9.1E-07
4D	91-20-3	Naphthalene	8.77E-02	1.3E-06	13	2.3E-05	4.1E-05	5.3E-05	5.5E-05	4.2E-05	3.0E-05	2.2E-05	1.8E-05	1.5E-05	1.3E-05	1.1E-05	1.0E-05	9.4E-06	8.7E-06	8.1E-06	7.5E-06	5.1E-06	4.6E-06	4.2E-06	6.1E-06	7.0E-06
4D	91-57-6	2-Methylnaphthalene	3.80E-02	5.5E-07	13	1.0E-05	1.8E-05	2.3E-05	2.4E-05	1.8E-05	1.3E-05	9.7E-06	7.8E-06	6.5E-06	5.5E-06	4.9E-06	4.5E-06	4.1E-06	3.8E-06	3.5E-06	3.2E-06	2.2E-06	2.0E-06	1.8E-06	2.7E-06	3.1E-06
4D	95-47-6	o-Xylene	9.54E-03	1.4E-07	13	2.6E-06	4.5E-06	5.8E-06	6.0E-06	4.6E-06	3.2E-06	2.4E-06	1.9E-06	1.6E-06	1.4E-06	1.2E-06	1.1E-06	1.0E-06	9.5E-07	8.8E-07	8.1E-07	5.5E-07	5.0E-07	4.6E-07	6.7E-07	7.7E-07
4D	95-50-1	1,2-Dichlorobenzene	1.40E-03	2.0E-08	13	3.7E-07	6.6E-07	8.5E-07	8.8E-07	6.7E-07	4.8E-07	3.6E-07	2.9E-07	2.4E-07	2.0E-07	1.8E-07	1.6E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	8.1E-08	7.3E-08	6.8E-08	9.8E-08	1.1E-07
4D	95-63-6	1,2,4-Trimethylbenzene	2.46E-02	3.5E-07	13	6.6E-06	1.2E-05	1.5E-05	1.5E-05	1.2E-05	8.3E-06	6.3E-06	5.0E-06	4.2E-06	3.6E-06	3.2E-06	2.9E-06	2.6E-06	2.4E-06	2.3E-06	2.1E-06	1.4E-06	1.3E-06	1.2E-06	1.7E-06	2.0E-06
4D	98-82-8	1-METHYLETHYLBENZENE	7.13E-02	1.0E-06	13	1.9E-05	3.4E-05	4.3E-05	4.5E-05	3.4E-05	2.4E-05	1.8E-05	1.5E-05	1.2E-05	1.0E-05	9.2E-06	8.3E-06	7.7E-06	7.1E-06	6.5E-06	6.1E-06	4.1E-06	3.7E-06	3.5E-06	5.0E-06	5.7E-06
4D	10042-59-8	2-PROPYL-1-HEPTANOL	1.71E-01	2.5E-06	13	4.6E-05	8.0E-05	1.0E-04	1.1E-04	8.2E-05	5.8E-05	4.4E-05	3.5E-05	2.9E-05	2.5E-05	2.2E-05	2.0E-05	1.8E-05	1.7E-05	1.6E-05	1.4E-05	9.9E-06	8.9E-06	8.3E-06	1.2E-05	1.4E-05
4D	1031-07-8	Endosulfan sulfate	3.86E-05	5.6E-10	13	1.0E-08	1.8E-08	2.3E-08	2.4E-08	1.9E-08	1.3E-08	9.9E-09	7.9E-09	6.6E-09	5.6E-09	5.0E-09	4.5E-09	4.2E-09	3.8E-09	3.5E-09	3.3E-09	2.2E-09	2.0E-09	1.9E-09	2.7E-09	3.1E-09
4D	106-42-3	P-XYLENE	3.50E-03	5.0E-08	13	9.4E-07	1.6E-06	2.1E-06	2.2E-06	1.7E-06	1.2E-06	9.0E-07	7.2E-07	5.9E-07	5.1E-07	4.5E-07	4.1E-07	3.8E-07	3.5E-07	3.2E-07	3.0E-07	2.0E-07	1.8E-07	1.7E-07	2.4E-07	2.8E-07
4D	106-43-4	4-Chlorotoluene	1.08E-02	1.5E-07	13	2.9E-06	5.1E-06	6.5E-06	6.8E-06	5.2E-06	3.7E-06	2.8E-06	2.2E-06	1.8E-06	1.6E-06	1.4E-06	1.3E-06	1.2E-06	1.1E-06	9.9E-07	9.2E-07	6.2E-07	5.6E-07	5.2E-07	7.5E-07	8.7E-07
4D	106-46-7	1,4-Dichlorobenzene	2.06E-03	3.0E-08	13	5.5E-07	9.7E-07	1.3E-06	1.3E-06	9.9E-07	7.0E-07	5.3E-07	4.2E-07	3.5E-07	3.0E-07	2.7E-07	2.4E-07	2.2E-07	2.1E-07	1.9E-07	1.8E-07	1.2E-07	1.1E-07	1.0E-07	1.4E-07	1.7E-07
4D	106-93-4	1,2-Dibromoethane	5.48E-05	7.9E-10	13	1.5E-08	2.6E-08	3.3E-08	3.4E-08	2.6E-08	1.9E-08	1.4E-08	1.1E-08	9.3E-09	8.0E-09	7.1E-09	6.4E-09	5.9E-09	5.4E-09	5.0E-09	4.7E-09	3.2E-09	2.9E-09	2.7E-09	3.8E-09	4.4E-09
4D	107-06-2	1,2-Dichloroethane	8.98E-02	1.3E-06	13	2.4E-05	4.2E-05	5.4E-05	5.7E-05	4.3E-05	3.0E-05	2.3E-05	1.8E-05	1.5E-05	1.3E-05	1.2E-05	1.1E-05	9.7E-06	8.9E-06	8.3E-06	7.6E-06	5.2E-06	4.7E-06	4.4E-06	6.3E-06	7.2E-06
4D	108-38-3	M-XYLENE	2.42E-01	3.5E-06	13	6.5E-05	1.1E-04	1.5E-04	1.5E-04	1.2E-04	8.2E-05	6.2E-05	5.0E-05	4.1E-05	3.5E-05	3.1E-05	2.8E-05	2.6E-05	2.4E-05	2.2E-05	2.1E-05	1.4E-05	1.3E-05	1.2E-05	1.7E-05	1.9E-05
4D	108-90-7	Chlorobenzene	5.93E-02	8.5E-07	13	1.6E-05	2.8E-05	3.6E-05	3.7E-05	2.9E-05	2.0E-05	1.5E-05	1.2E-05	1.0E-05	8.6E-06	7.6E-06	6.9E-06	6.4E-06	5.9E-06	5.4E-06	5.0E-06	3.4E-06	3.1E-06	2.9E-06	4.1E-06	4.8E-06
4D	11097-69-1	Aroclor 1254	5.48E-02	7.9E-07	13	1.5E-05	2.6E-05	3.3E-05	3.4E-05	2.6E-05	1.9E-05	1.4E-05	1.1E-05	9.3E-06	8.0E-06	7.1E-06	6.4E-06	5.9E-06	5.4E-06	5.0E-06	4.7E-06	3.2E-06	2.9E-06	2.7E-06	3.8E-06	4.4E-06
4D	120-82-1	1,2,4-Trichlorobenzene	8.98E-06	1.3E-10	13	2.4E-09	4.2E-09	5.4E-09	5.7E-09	4.3E-09	3.0E-09	2.3E-09	1.8E-09	1.5E-09	1.3E-09	1.2E-09	1.1E-09	9.7E-10	8.9E-10	8.3E-10	7.6E-10	5.2E-10	4.7E-10	4.4E-10	6.3E-10	7.2E-10
4D	12672-29-6	Aroclor 1248	4.67E-02	6.7E-07	13	1.2E-05	2.2E-05	2.8E-05	2.9E-05	2.2E-05	1.6E-05	1.2E-05	9.5E-06	7.9E-06	6.8E-06	6.0E-06	5.5E-06	5.0E-06	4.6E-06	4.3E-06	4.0E-06	2.7E-06	2.4E-06	2.3E-06	3.3E-06	3.8E-06
4D	12674-11-2	Aroclor 1016	1.44E-02	2.1E-07	13	3.8E-06	6.8E-06	8.7E-06	9.0E-06	6.9E-06	4.9E-06	3.7E-06	2.9E-06	2.4E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.3E-06	1.2E-06	8.3E-07	7.5E-07	7.0E-07	1.0E-06	1.2E-06
4D	127-18-4	Tetrachloroethene	7.00E-05	1.0E-09	13	1.9E-08	3.3E-08	4.2E-08	4.4E-08	3.4E-08	2.4E-08	1.8E-08	1.4E-08	1.2E-08	1.0E-08	9.0E-09	8.2E-09	7.5E-09	7.0E-09	6.4E-09	6.0E-09	4.1E-09	3.7E-09	3.4E-09	4.9E-09	5.6E-09
4D	132-64-9	Dibenzofuran	4.85E-03	7.0E-08	13	1.3E-06	2.3E-06	2.9E-06	3.1E-06	2.3E-06	1.6E-06	1.2E-06	9.9E-07	8.2E-07	7.0E-07	6.3E-07	5.7E-07	5.2E-07	4.8E-07	4.5E-07	4.1E-07	2.8E-07	2.5E-07	2.3E-07	3.4E-07	3.9E-07
4D	1653-40-3	6-METHYL-1,1-HEPTANOL	2.69E-01	3.9E-06	13	7.2E-05	1.3E-04	1.6E-04	1.7E-04	1.3E-04	9.1E-05	6.9E-05	5.5E-05	4.6E-05	3.9E-05	3.5E-05	3.2E-05	2.9E-05	2.7E-05	2.5E-05	2.3E-05	1.6E-05	1.4E-05	1.3E-05	1.9E-05	2.2E-05
4D	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	2.96E-02	4.3E-07	13	7.9E-06	1.4E-05	1.8E-05	1.9E-05	1.4E-05	1.0E-05	7.6E-06	6.1E-06	5.0E-06	4.3E-06	3.8E-06	3.5E-06	3.2E-06	2.9E-06	2.7E-06	2.5E-06	1.7E-06	1.5E-06	1.4E-06	2.1E-06	2.4E-06
4D	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	7.45E-02	1.1E-06	13	2.0E-05	3.5E-05	4.5E-05	4.7E-05	3.6E-05	2.5E-05	1.9E-05	1.5E-05	1.3E-05	1.1E-05	9.6E-06	8.7E-06	8.0E-06	7.4E-06	6.8E-06	6.3E-06	4.3E-06	3.9E-06	3.6E-06	5.2E-06	6.0E-06

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																				
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
4D	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	3.68E-02	5.3E-07	13	9.8E-06	1.7E-05	2.2E-05	2.3E-05	1.8E-05	1.2E-05	9.4E-06	7.5E-06	6.2E-06	5.3E-06	4.7E-06	4.3E-06	4.0E-06	3.7E-06	3.4E-06	3.1E-06	2.1E-06	1.9E-06	1.8E-06	2.6E-06	3.0E-06
4D	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.05E-02	4.4E-07	13	8.2E-06	1.4E-05	1.8E-05	1.9E-05	1.5E-05	1.0E-05	7.8E-06	6.2E-06	5.2E-06	4.4E-06	3.9E-06	3.6E-06	3.3E-06	3.0E-06	2.8E-06	2.6E-06	1.8E-06	1.6E-06	1.5E-06	2.1E-06	2.5E-06
4D	26952-21-6	ISOOCTANOL	9.88E-02	1.4E-06	13	2.6E-05	4.6E-05	6.0E-05	6.2E-05	4.8E-05	3.4E-05	2.5E-05	2.0E-05	1.7E-05	1.4E-05	1.3E-05	1.2E-05	1.1E-05	9.8E-06	9.1E-06	8.4E-06	5.7E-06	5.2E-06	4.8E-06	6.9E-06	7.9E-06
4D	2719-52-0	(1-METHYLBUTYL)BENZENE	5.48E-02	7.9E-07	13	1.5E-05	2.6E-05	3.3E-05	3.4E-05	2.6E-05	1.9E-05	1.4E-05	1.1E-05	9.3E-06	8.0E-06	7.1E-06	6.4E-06	5.9E-06	5.4E-06	5.0E-06	4.7E-06	3.2E-06	2.9E-06	2.7E-06	3.8E-06	4.4E-06
4D	2883-05-8	2-CYCLOHEXYLDECANE	7.27E-02	1.0E-06	13	1.9E-05	3.4E-05	4.4E-05	4.6E-05	3.5E-05	2.5E-05	1.9E-05	1.5E-05	1.2E-05	1.1E-05	9.4E-06	8.5E-06	7.8E-06	7.2E-06	6.7E-06	6.2E-06	4.2E-06	3.8E-06	3.5E-06	5.1E-06	5.8E-06
4D	33213-65-9	Endosulfan II	9.88E-05	1.4E-09	13	2.6E-08	4.6E-08	6.0E-08	6.2E-08	4.8E-08	3.4E-08	2.5E-08	2.0E-08	1.7E-08	1.4E-08	1.3E-08	1.2E-08	1.1E-08	9.8E-09	9.1E-09	8.4E-09	5.7E-09	5.2E-09	4.8E-09	6.9E-09	7.9E-09
4D	3875-51-2	1-METHYLETHYLCYCLOPENTANE	3.77E-02	5.4E-07	13	1.0E-05	1.8E-05	2.3E-05	2.4E-05	1.8E-05	1.3E-05	9.7E-06	7.7E-06	6.4E-06	5.5E-06	4.9E-06	4.4E-06	4.1E-06	3.7E-06	3.5E-06	3.2E-06	2.2E-06	2.0E-06	1.8E-06	2.6E-06	3.0E-06
4D	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.42E-02	3.5E-07	13	6.5E-06	1.1E-05	1.5E-05	1.5E-05	1.2E-05	8.2E-06	6.2E-06	5.0E-06	4.1E-06	3.5E-06	3.1E-06	2.8E-06	2.6E-06	2.4E-06	2.2E-06	2.1E-06	1.4E-06	1.3E-06	1.2E-06	1.7E-06	1.9E-06
4D	496-10-6	OCTAHYDROINDENE	2.78E-01	4.0E-06	13	7.4E-05	1.3E-04	1.7E-04	1.8E-04	1.3E-04	9.4E-05	7.1E-05	5.7E-05	4.7E-05	4.0E-05	3.6E-05	3.3E-05	3.0E-05	2.8E-05	2.6E-05	2.4E-05	1.6E-05	1.5E-05	1.3E-05	1.9E-05	2.2E-05
4D	5103-74-2	GAMMA-CHLORDANE	1.53E-04	2.2E-09	13	4.1E-08	7.2E-08	9.2E-08	9.6E-08	7.4E-08	5.2E-08	3.9E-08	3.1E-08	2.6E-08	2.2E-08	2.0E-08	1.8E-08	1.6E-08	1.5E-08	1.4E-08	1.3E-08	8.8E-09	8.0E-09	7.4E-09	1.1E-08	1.2E-08
4D	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	6.73E-02	9.7E-07	13	1.8E-05	3.2E-05	4.1E-05	4.2E-05	3.2E-05	2.3E-05	1.7E-05	1.4E-05	1.1E-05	9.8E-06	8.7E-06	7.9E-06	7.2E-06	6.7E-06	6.2E-06	5.7E-06	3.9E-06	3.5E-06	3.3E-06	4.7E-06	5.4E-06
4D	53469-21-9	Aroclor 1242	3.77E-02	5.4E-07	13	1.0E-05	1.8E-05	2.3E-05	2.4E-05	1.8E-05	1.3E-05	9.7E-06	7.7E-06	6.4E-06	5.5E-06	4.9E-06	4.4E-06	4.1E-06	3.7E-06	3.5E-06	3.2E-06	2.2E-06	2.0E-06	1.8E-06	2.6E-06	3.0E-06
4D	53494-70-5	Endrin ketone	2.69E-05	3.9E-10	13	7.2E-09	1.3E-08	1.6E-08	1.7E-08	1.3E-08	9.1E-09	6.9E-09	5.5E-09	4.6E-09	3.9E-09	3.5E-09	3.2E-09	2.9E-09	2.7E-09	2.5E-09	2.3E-09	1.6E-09	1.4E-09	1.3E-09	1.9E-09	2.2E-09
4D	5364-83-0	(1-PROPENYL)CYCLOHEXANE	3.59E-01	5.2E-06	13	9.6E-05	1.7E-04	2.2E-04	2.3E-04	1.7E-04	1.2E-04	9.2E-05	7.3E-05	6.1E-05	5.2E-05	4.6E-05	4.2E-05	3.9E-05	3.6E-05	3.3E-05	3.1E-05	2.1E-05	1.9E-05	1.7E-05	2.5E-05	2.9E-05
4D	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.62E-02	2.3E-07	13	4.3E-06	7.6E-06	9.8E-06	1.0E-05	7.8E-06	5.5E-06	4.1E-06	3.3E-06	2.7E-06	2.3E-06	2.1E-06	1.9E-06	1.7E-06	1.6E-06	1.5E-06	1.4E-06	9.4E-07	8.4E-07	7.8E-07	1.1E-06	1.3E-06
4D	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	6.91E-02	9.9E-07	13	1.8E-05	3.3E-05	4.2E-05	4.4E-05	3.3E-05	2.3E-05	1.8E-05	1.4E-05	1.2E-05	1.0E-05	8.9E-06	8.1E-06	7.4E-06	6.9E-06	6.4E-06	5.9E-06	4.0E-06	3.6E-06	3.4E-06	4.8E-06	5.6E-06
4D	591-78-6	2-Hexanone	3.05E-05	4.4E-10	13	8.2E-09	1.4E-08	1.8E-08	1.9E-08	1.5E-08	1.0E-08	7.8E-09	6.2E-09	5.2E-09	4.4E-09	3.9E-09	3.6E-09	3.3E-09	3.0E-09	2.8E-09	2.6E-09	1.8E-09	1.6E-09	1.5E-09	2.1E-09	2.5E-09
4D	65-85-0	Benzoic acid	1.44E-03	2.1E-08	13	3.8E-07	6.8E-07	8.7E-07	9.0E-07	6.9E-07	4.9E-07	3.7E-07	2.9E-07	2.4E-07	2.1E-07	1.9E-07	1.7E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	8.3E-08	7.5E-08	7.0E-08	1.0E-07	1.2E-07
4D	67-66-3	Chloroform	2.24E-01	3.2E-06	13	6.0E-05	1.1E-04	1.4E-04	1.4E-04	1.1E-04	7.6E-05	5.7E-05	4.6E-05	3.8E-05	3.3E-05	2.9E-05	2.6E-05	2.4E-05	2.2E-05	2.1E-05	1.9E-05	1.3E-05	1.2E-05	1.1E-05	1.6E-05	1.8E-05
4D	71-55-6	1,1,1-Trichloroethane	1.17E-01	1.7E-06	13	3.1E-05	5.5E-05	7.1E-05	7.4E-05	5.6E-05	4.0E-05	3.0E-05	2.4E-05	2.0E-05	1.7E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	1.1E-05	9.9E-06	6.8E-06	6.1E-06	5.7E-06	8.2E-06	9.4E-06
4D	75-34-3	1,1-Dichloroethane	6.28E-03	9.0E-08	13	1.7E-06	3.0E-06	3.8E-06	4.0E-06	3.0E-06	2.1E-06	1.6E-06	1.3E-06	1.1E-06	9.1E-07	8.1E-07	7.4E-07	6.8E-07	6.2E-07	5.8E-07	5.3E-07	3.6E-07	3.3E-07	3.0E-07	4.4E-07	5.1E-07
4D	75-35-4	1,1-Dichloroethene	3.86E-05	5.6E-10	13	1.0E-08	1.8E-08	2.3E-08	2.4E-08	1.9E-08	1.3E-08	9.9E-09	7.9E-09	6.6E-09	5.6E-09	5.0E-09	4.5E-09	4.2E-09	3.8E-09	3.5E-09	3.3E-09	2.2E-09	2.0E-09	1.9E-09	2.7E-09	3.1E-09
4D	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	7.72E-02	1.1E-06	13	2.1E-05	3.6E-05	4.7E-05	4.9E-05	3.7E-05	2.6E-05	2.0E-05	1.6E-05	1.3E-05	1.1E-05	1.0E-05	9.0E-06	8.3E-06	7.7E-06	7.1E-06	6.6E-06	4.5E-06	4.0E-06	3.7E-06	5.4E-06	6.2E-06
4D	79-34-5	1,1,2,2-Tetrachloroethane	8.44E-04	1.2E-08	13	2.3E-07	4.0E-07	5.1E-07	5.3E-07	4.1E-07	2.9E-07	2.2E-07	1.7E-07	1.4E-07	1.2E-07	1.1E-07	9.9E-08	9.1E-08	8.4E-08	7.8E-08	7.2E-08	4.9E-08	4.4E-08	4.1E-08	5.9E-08	6.8E-08
4D	87-61-6	1,2,3-Trichlorobenzene	1.17E-05	1.7E-10	13	3.1E-09	5.5E-09	7.1E-09	7.4E-09	5.6E-09	4.0E-09	3.0E-09	2.4E-09	2.0E-09	1.7E-09	1.5E-09	1.4E-09	1.3E-09	1.2E-09	1.1E-09	9.9E-10	6.8E-10	6.1E-10	5.7E-10	8.2E-10	9.4E-10
4D	91-17-8	DECAHYDRONAPHTHALENE	1.35E-01	1.9E-06	13	3.6E-05	6.3E-05	8.2E-05	8.5E-05	6.5E-05	4.6E-05	3.4E-05	2.8E-05	2.3E-05	2.0E-05	1.7E-05	1.6E-05	1.4E-05	1.3E-05	1.2E-05	1.1E-05	7.8E-06	7.0E-06	6.5E-06	9.4E-06	1.1E-05
4D	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.80E-02	2.6E-07	13	4.8E-06	8.4E-06	1.1E-05	1.1E-05	8.7E-06	6.1E-06	4.6E-06	3.7E-06	3.0E-06	2.6E-06	2.3E-06	2.1E-06	1.9E-06	1.8E-06	1.7E-06	1.5E-06	1.0E-06	9.4E-07	8.7E-07	1.3E-06	1.4E-06
4D	96-12-8	1,2-Dibromo-3-Chloropropane	5.30E-05	7.6E-10	13	1.4E-08	2.5E-08	3.2E-08	3.3E-08	2.6E-08	1.8E-08	1.4E-08	1.1E-08	9.0E-09	7.7E-09	6.8E-09	6.2E-09	5.7E-09	5.3E-09	4.9E-09	4.5E-09	3.1E-09	2.8E-09	2.6E-09	3.7E-09	4.3E-09
4D	98-06-6	tert-Butylbenzene	2.42E-05	3.5E-10	13	6.5E-09	1.1E-08	1.5E-08	1.5E-08	1.2E-08	8.2E-09	6.2E-09	5.0E-09	4.1E-09	3.5E-09	3.1E-09	2.8E-09	2.6E-09	2.4E-09	2.2E-09	2.1E-09	1.4E-09	1.3E-09	1.2E-09	1.7E-09	1.9E-09
7	100-41-4	Ethylbenzene	3.53E-03	5.1E-08	17	1.2E-07	1.4E-07	1.6E-07	1.8E-07	2.0E-07	2.3E-07	2.5E-07	2.8E-07	3.0E-07	3.1E-07	3.2E-07	3.2E-07	3.1E-07	3.0E-07	2.8E-07	2.6E-07	1.7E-07	1.6E-07	1.5E-07	2.1E-07	2.2E-07
7	100-42-5	Styrene	2.22E-03	3.2E-08	17	7.2E-08	8.5E-08	9.8E-08	1.1E-07	1.3E-07	1.4E-07	1.6E-07	1.8E-07	1.9E-07	2.0E-07	2.0E-07	2.0E-07	1.9E-07	1.9E-07	1.8E-07	1.6E-07	1.1E-07	9.9E-08	9.2E-08	1.3E-07	1.4E-07
7	103-65-1	n-Propylbenzene	4.35E-04	6.3E-09	17	1.4E-08	1.7E-08	1.9E-08	2.2E-08	2.5E-08	2.8E-08	3.1E-08	3.4E-08	3.7E-08	3.8E-08	3.9E-08	3.9E-08	3.8E-08	3.7E-08	3.5E-08	3.2E-08	2.1E-08	1.9E-08	1.8E-08	2.6E-08	2.8E-08
7	104-51-8	n-Butylbenzene	7.84E-05	1.1E-09	17	2.6E-09	3.0E-09	3.5E-09	3.9E-09	4.4E-09	5.0E-09	5.6E-09	6.2E-09	6.6E-09	6.9E-09	7.1E-09	7.0E-09	6.9E-09	6.6E-09	6.2E-09	5.8E-09	3.9E-09	3.5E-09	3.3E-09	4.6E-09	5.0E-09
7	108-67-8	1,3,5-Trimethylbenzene	2.44E-04	3.5E-09	17	8.0E-09	9.4E-09	1.1E-08	1.2E-08	1.4E-08	1.6E-08	1.7E-08	1.9E-08	2.1E-08	2.2E-08	2.2E-08	2.2E-08	2.1E-08	2.1E-08	1.9E-08	1.8E-08	1.2E-08	1.1E-08	1.0E-08	1.4E-08	1.5E-08
7	108-88-3	Toluene	2.65E-04	3.8E-09	17	8.6E-09	1.0E-08	1.2E-08	1.3E-08	1.5E-08	1.7E-08	1.9E-08	2.1E-08	2.2E-08	2.3E-08	2.4E-08	2.4E-08	2.3E-08	2.2E-08	2.1E-08	2.0E-08	1.3E-08	1.2E-08	1.1E-08	1.6E-08	1.7E-08
7	11096-82-5	Aroclor 1260	2.34E-05	3.4E-10	17	7.6E-10	9.0E-10	1.0E-09	1.2E-09	1.3E-09	1.5E-09	1.7E-09	1.8E-09	2.0E-09	2.1E-09	2.1E-09	2.1E-09	2.1E-09	2.0E-09	1.9E-09	1.7E-09	1.1E-09	1.0E-09	9.7E-10	1.4E-09	1.5E-09
7	120-12-7	Anthracene	2.17E-04	3.1E-09	17	7.1E-09	8.4E-09	9.6E-09	1.1E-08	1.2E-08	1.4E-08	1.6E-08	1.7E-08	1.8E-08	1.9E-08	2.0E-08	1.9E-08	1.9E-08	1.8E-08	1.7E-08	1.6E-08	1.1E-08	9.7E-09	9.0E-09	1.3E-08	1.4E-08
7	129-00-0	Pyrene	6.89E-05	9.9E-10	17	2.2E-09	2.7E-09	3.1E-09	3.5E-09	3.9E-09	4.4E-09	4.9E-09	5.4E-09	5.8E-09	6.1E-09	6.2E-09	6.2E-09	6.0E-09	5.8E-09	5.5E-09	5.1E-09	3.4E-09	3.1E-09	2.9E-09	4.1E-09	4.4E-09
7	1330-20-7	XYLENES (TOTAL)	1.34E-03	1.9E-08	17	4.4E-08	5.2E-08	5.9E-08	6.7E-08	7.6E-08	8.6E-08	9.6E-08	1.1E-07	1.1E-07	1.2E-07	1.2E-07	1.2E-07	1.2E-07	1.1E-07	1.1E-07	9.9E-08	6.6E-08	6.0E-08	5.6E-08	8.0E-08	8.5E-08
7	135-98-8	(1-METHYLPROPYL)BENZENE	1.93E-03	2.8E-08	17	6.3E-08	7.4E-08	8.5E-08	9.7E-08	1.1E-07	1.2E-07	1.4E-07	1.5E-07	1.6E-07	1.7E-07	1.7E-07	1.7E-07	1.7E-07	1.6E-07	1.5E-07	1.4E-07	9.5E-08	8.6E-08	8.0E-08	1.1E-07	1.2E-07
7	179601-23-1	m,p-Xylenes	6.02E-04	8.7E-09	17	2.0E-08	2.3E-08	2.7E-08	3.0E-08	3.4E-08	3.9E-08	4.3E-08	4.8E-08	5.1E-08	5.3E-08	5.4E-08	5.4E-08	5.3E-08	5.1E-08	4.8E-08	4.5E-08	3.0E-08	2.7E-08	2.5E-08	3.6E-08	3.8E-08
7	67-64-1	2-PROPANONE	5.14E-04	7.4E-09	17	1.7E-08	2.0E-08	2.3E-08	2.6E-08	2.9E-08	3.3E-08	3.7E-08	4.1E-08	4.4E-08	4.5E-08	4.6E-08	4.6E-08	4.5E-08	4.3E-08	4.1E-08	3.8E-08	2.5E-08	2.3E-08	2.1E-08	3.0E-08	3.3E-08
7	71-43-2	Benzene	1.66E-04	2.4E-09	17	5.4E-09	6.4E-09	7.4E-09	8.3E-09	9.4E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.5E-08	1.5E-08	1.5E-08	1.5E-08	1.4E-08	1.3E-08	1.2E-08	8.2E-09	7.4E-09	6.9E-09	9.8E-09	1.1E-08
7	7421-93-4	Endrin aldehyde	5.48E-07	7.9E-12	17	1.8E-11	2.1E-11	2.4E-11	2.7E-11	3.1E-11	3.5E-11	3.9E-11	4.3E-11	4.6E-11	4.8E-11	4.9E-11	4.9E-11	4.8E-11	4.6E-11	4.4E-11	4.1E-11	2.7E-11	2.4E-11	2.3E-11	3.2E-11	3.5E-11
7	7439-98-7	Molybdenum	4.92E-04	7.1E-09	17	1.6E-08	1.9E-08	2.2E-08	2.5E-08	2.8E-08	3.1E-08	3.5E-08	3.9E-08	4.2E-08	4.3E-08	4.4E-08	4.4E-08	4.3E-08	4.1E-08	3.9E-08	3.6E-08	2.4E-08	2.2E-08	2.0E-08	2.9E-08	3.1E-08
7	75-09-2	Methylene Chloride	2.25E-04	3.2E-09	17	7.3E-09	8.7E-09	1.0E-08	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.8E-08	1.9E-08	2.0E-08	2.0E-08	2.0E-08	2.0E-08	1.9E-08	1.8E-08	1.7E-08	1.1E-08	1.0E-08	9.4E-09	1.3E-08	1.4E-08
7	75-69-4	Trichlorofluoromethane	7.54E-05	1.1E-09	17	2.5E-09	2.9E-09	3.3E-09	3.8E-09	4.3E-09	4.8E-09	5.4E-09	6.0E-09	6.4E-09	6.7E-09	6.8E-09	6.8E-09	6.6E-09	6.3E-09	6.0E-09	5.6E-09	3.7E-09	3.4E-09	3.1E-09	4.5E-09	4.8E-09
7	78-93-3	2-Butanone	1.46E-04	2.1E-09	17	4.8E-09	5.6E-09	6.5E-09	7.3E-09	8.3E-09	9.3E-09	1.0E-08	1.2E-08	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.2E-08	1.2E-08	1.1E-08	7.2E-09	6.5E-09	6.1E-09	8.6E-09	9.3E-09
7	83-32-9	Acenaphthene	5.61E-05	8.1E-10	17	1.8E-09	2.2E-09	2.5E-09	2.8E-09	3.2E-09	3.6E-09	4.0E-09	4.4E-09	4.8E-09	5.0E-09	5.1E-09	5.0E-09	4.9E-09	4.7E-09	4.5E-09	4.2E-09	2.8E-09	2.5E-09	2.3E-09	3.3E-09	3.6E-09
7	85-01-8	Phenanthrene	2.11E-02	3.0E-07	17	6.9E-07	8.1E-07	9.4E-07	1.1E-06	1.2E-06	1.4E-06	1.5E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	1.9E-06	1.9E-06	1.8E-06	1.7E-06	1.6E-06	1.0E-06	9.4E-07	8.8E-07	1.3E-06	1.3E-06
7	86-73-7	Fluorene	3.40E-04	4.9E-09	17	1.1E-08	1.3E-08	1.5E-08	1.7E-08	1.9E-08	2.2E-08	2.4E-08	2.7E-08	2.9E-08	3.0E-08	3.1E-08	3.1E-08	3.0E-08	2.9E-08	2.7E-08	2.5E-08	1.7E-08	1.5E-08	1.4E-08	2.0E-08	2.2E-08
7	91-20-3	Naphthalene	2.65E-03	3.8E-08	17	8.6E-08	1.0E-07	1.2E-07	1.3E-07	1.5E-07	1.7E-07	1.9E-07	2.1E-07	2.2E-07	2.3E-07	2.4E-07	2.4E-07	2.3E-07	2.2E-07	2.1E-07	2.0E-07	1.3E-07	1.2E-07	1.1E-07	1.6E-07	1.7E-07
7	91-57-6	2-Methylnaphthalene	1.15E-03	1.7E-08	17	3.7E-08	4.4E-08	5.1E-08	5.8E-08	6.5E-08	7.4E-08	8.2E-08	9.1E-08	9.7E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	9.7E-08	9.2E-08	8.5E-08	5.6E-08	5.1E-08	4.8E-08	6.8E-08	7.3E-08
7	95-47-6	o-Xylene	2.88E-04	4.1E-09	17	9.4E-09	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.8E-08	2.1E-08	2.3E-08	2.4E-08	2.5E-08	2.6E-08	2.6E-08	2.5E-08	2.4E-08	2.3E-08	2.1E-08	1.4E-08	1.3E-08	1.2E-08	1.7E-08	1.8E-08
7	95-50-1	1,2-Dichlorobenzene	4.23E-05	6.1E-10	17	1.4E-09	1.6E-09	1.9E-09	2.1E-09	2.4E-09	2.7E-09	3.0E-09	3.3E-09	3.6E-09	3.7E-09	3.8E-09	3.8E-09	3.7E-09	3.6E-09	3.4E-09	3.1E-09	2.1E-09	1.9E-09	1.8E-09	2.5E-09	2.7E-09
7	95-63-6	1,2,4-Trimethylbenzene	7.42E-04	1.1E-08	17	2.4E-08	2.9E-08	3.3E-08	3.7E-08	4.2E-08	4.7E-08	5.3E-08	5.9E-08	6.3E-08	6.6E-08	6.7E-08	6.7E-08	6.5E-08	6.2E-08	5.9E-08	5.5E-08	3.6E-08	3.3E-08	3.1E-08	4.4E-08	4.7E-08

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
7	98-82-8	1-METHYLETHYLBENZENE	2.15E-03	3.1E-08	17	7.0E-08	8.3E-08	9.5E-08	1.1E-07	1.2E-07	1.4E-07	1.5E-07	1.7E-07	1.8E-07	1.9E-07	1.9E-07	1.9E-07	1.9E-07	1.8E-07	1.7E-07	1.6E-07	1.1E-07	9.6E-08	8.9E-08	1.3E-07	1.4E-07
7	10042-59-8	2-PROPYL-1-HEPTANOL	5.15E-03	7.4E-08	17	1.7E-07	2.0E-07	2.3E-07	2.6E-07	2.9E-07	3.3E-07	3.7E-07	4.1E-07	4.4E-07	4.6E-07	4.6E-07	4.6E-07	4.5E-07	4.3E-07	4.1E-07	3.8E-07	2.5E-07	2.3E-07	2.1E-07	3.1E-07	3.3E-07
7	1031-07-8	Endosulfan sulfate	1.17E-06	1.7E-11	17	3.8E-11	4.5E-11	5.2E-11	5.9E-11	6.6E-11	7.5E-11	8.3E-11	9.2E-11	9.9E-11	1.0E-10	1.0E-10	1.0E-10	1.0E-10	9.8E-11	9.3E-11	8.6E-11	5.7E-11	5.2E-11	4.8E-11	6.9E-11	7.4E-11
7	106-42-3	P-XYLENE	1.06E-04	1.5E-09	17	3.5E-09	4.1E-09	4.7E-09	5.3E-09	6.0E-09	6.8E-09	7.6E-09	8.4E-09	9.0E-09	9.4E-09	9.5E-09	9.5E-09	9.3E-09	8.9E-09	8.4E-09	7.8E-09	5.2E-09	4.7E-09	4.4E-09	6.3E-09	6.7E-09
7	106-43-4	4-Chlorotoluene	3.25E-04	4.7E-09	17	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.8E-08	2.1E-08	2.3E-08	2.6E-08	2.8E-08	2.9E-08	2.9E-08	2.9E-08	2.9E-08	2.7E-08	2.6E-08	2.4E-08	1.6E-08	1.5E-08	1.4E-08	1.9E-08	2.1E-08
7	106-46-7	1,4-Dichlorobenzene	6.24E-05	9.0E-10	17	2.0E-09	2.4E-09	2.8E-09	3.1E-09	3.5E-09	4.0E-09	4.5E-09	4.9E-09	5.3E-09	5.5E-09	5.6E-09	5.6E-09	5.5E-09	5.2E-09	5.0E-09	4.6E-09	3.1E-09	2.8E-09	2.6E-09	3.7E-09	4.0E-09
7	106-93-4	1,2-Dibromoethane	1.65E-06	2.4E-11	17	5.4E-11	6.4E-11	7.3E-11	8.3E-11	9.4E-11	1.1E-10	1.2E-10	1.3E-10	1.4E-10	1.5E-10	1.5E-10	1.5E-10	1.5E-10	1.4E-10	1.3E-10	1.2E-10	8.1E-11	7.4E-11	6.9E-11	9.8E-11	1.1E-10
7	107-06-2	1,2-Dichloroethane	2.71E-03	3.9E-08	17	8.9E-08	1.0E-07	1.2E-07	1.4E-07	1.5E-07	1.7E-07	1.9E-07	2.1E-07	2.3E-07	2.4E-07	2.4E-07	2.4E-07	2.4E-07	2.3E-07	2.2E-07	2.0E-07	1.3E-07	1.2E-07	1.1E-07	1.6E-07	1.7E-07
7	108-38-3	M-XYLENE	7.32E-03	1.1E-07	17	2.4E-07	2.8E-07	3.2E-07	3.7E-07	4.1E-07	4.7E-07	5.2E-07	5.8E-07	6.2E-07	6.5E-07	6.6E-07	6.6E-07	6.4E-07	6.2E-07	5.8E-07	5.4E-07	3.6E-07	3.3E-07	3.0E-07	4.3E-07	4.7E-07
7	108-90-7	Chlorobenzene	1.79E-03	2.6E-08	17	5.8E-08	6.9E-08	7.9E-08	9.0E-08	1.0E-07	1.1E-07	1.3E-07	1.4E-07	1.5E-07	1.6E-07	1.6E-07	1.6E-07	1.6E-07	1.5E-07	1.4E-07	1.3E-07	8.8E-08	8.0E-08	7.4E-08	1.1E-07	1.1E-07
7	11097-69-1	Aroclor 1254	1.65E-03	2.4E-08	17	5.4E-08	6.4E-08	7.3E-08	8.3E-08	9.4E-08	1.1E-07	1.2E-07	1.3E-07	1.4E-07	1.5E-07	1.5E-07	1.5E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	8.1E-08	7.4E-08	6.9E-08	9.8E-08	1.1E-07
7	120-82-1	1,2,4-Trichlorobenzene	2.71E-07	3.9E-12	17	8.9E-12	1.0E-11	1.2E-11	1.4E-11	1.5E-11	1.7E-11	1.9E-11	2.1E-11	2.3E-11	2.4E-11	2.4E-11	2.4E-11	2.4E-11	2.3E-11	2.2E-11	2.0E-11	1.3E-11	1.2E-11	1.1E-11	1.6E-11	1.7E-11
7	12672-29-6	Aroclor 1248	1.41E-03	2.0E-08	17	4.6E-08	5.4E-08	6.2E-08	7.1E-08	8.0E-08	9.0E-08	1.0E-07	1.1E-07	1.2E-07	1.2E-07	1.3E-07	1.3E-07	1.2E-07	1.2E-07	1.1E-07	1.0E-07	6.9E-08	6.3E-08	5.9E-08	8.4E-08	9.0E-08
7	12674-11-2	Aroclor 1016	4.34E-04	6.2E-09	17	1.4E-08	1.7E-08	1.9E-08	2.2E-08	2.5E-08	2.8E-08	3.1E-08	3.4E-08	3.7E-08	3.8E-08	3.9E-08	3.9E-08	3.8E-08	3.7E-08	3.5E-08	3.2E-08	2.1E-08	1.9E-08	1.8E-08	2.6E-08	2.8E-08
7	127-18-4	Tetrachloroethene	2.11E-06	3.0E-11	17	6.9E-11	8.2E-11	9.4E-11	1.1E-10	1.2E-10	1.4E-10	1.5E-10	1.7E-10	1.8E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10	1.8E-10	1.7E-10	1.6E-10	1.0E-10	9.4E-11	8.8E-11	1.3E-10	1.3E-10
7	132-64-9	Dibenzofuran	1.46E-04	2.1E-09	17	4.8E-09	5.6E-09	6.5E-09	7.3E-09	8.3E-09	9.4E-09	1.0E-08	1.2E-08	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.2E-08	1.2E-08	1.1E-08	7.2E-09	6.5E-09	6.1E-09	8.7E-09	9.3E-09
7	1653-40-3	6-METHYL-1,1-HEPTANOL	8.13E-03	1.2E-07	17	2.7E-07	3.1E-07	3.6E-07	4.1E-07	4.6E-07	5.2E-07	5.8E-07	6.4E-07	6.9E-07	7.2E-07	7.3E-07	7.3E-07	7.1E-07	6.8E-07	6.5E-07	6.0E-07	4.0E-07	3.6E-07	3.4E-07	4.8E-07	5.2E-07
7	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	8.95E-04	1.3E-08	17	2.9E-08	3.4E-08	4.0E-08	4.5E-08	5.1E-08	5.7E-08	6.4E-08	7.1E-08	7.6E-08	7.9E-08	8.1E-08	8.0E-08	7.8E-08	7.5E-08	7.1E-08	6.6E-08	4.4E-08	4.0E-08	3.7E-08	5.3E-08	5.7E-08
7	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	2.25E-03	3.2E-08	17	7.3E-08	8.7E-08	1.0E-07	1.1E-07	1.3E-07	1.4E-07	1.6E-07	1.8E-07	1.9E-07	2.0E-07	2.0E-07	2.0E-07	2.0E-07	1.9E-07	1.8E-07	1.7E-07	1.1E-07	1.0E-07	9.4E-08	1.3E-07	1.4E-07
7	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.11E-03	1.6E-08	17	3.6E-08	4.3E-08	4.9E-08	5.6E-08	6.3E-08	7.1E-08	7.9E-08	8.8E-08	9.4E-08	9.8E-08	1.0E-07	1.0E-07	9.8E-08	9.4E-08	8.9E-08	8.2E-08	5.5E-08	5.0E-08	4.6E-08	6.6E-08	7.1E-08
7	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	9.22E-04	1.3E-08	17	3.0E-08	3.6E-08	4.1E-08	4.6E-08	5.2E-08	5.9E-08	6.6E-08	7.3E-08	7.8E-08	8.2E-08	8.3E-08	8.3E-08	8.1E-08	7.8E-08	7.3E-08	6.8E-08	4.5E-08	4.1E-08	3.8E-08	5.5E-08	5.9E-08
7	26952-21-6	ISOOCTANOL	2.98E-03	4.3E-08	17	9.7E-08	1.1E-07	1.3E-07	1.5E-07	1.7E-07	1.9E-07	2.1E-07	2.4E-07	2.5E-07	2.6E-07	2.7E-07	2.7E-07	2.6E-07	2.5E-07	2.4E-07	2.2E-07	1.5E-07	1.3E-07	1.2E-07	1.8E-07	1.9E-07
7	2719-52-0	(1-METHYLBUTYL)BENZENE	1.65E-03	2.4E-08	17	5.4E-08	6.4E-08	7.3E-08	8.3E-08	9.4E-08	1.1E-07	1.2E-07	1.3E-07	1.4E-07	1.5E-07	1.5E-07	1.5E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	8.1E-08	7.4E-08	6.9E-08	9.8E-08	1.1E-07
7	2883-05-8	2-CYCLOHEXYLDECANE	2.20E-03	3.2E-08	17	7.2E-08	8.5E-08	9.7E-08	1.1E-07	1.2E-07	1.4E-07	1.6E-07	1.7E-07	1.9E-07	1.9E-07	2.0E-07	2.0E-07	1.9E-07	1.8E-07	1.7E-07	1.6E-07	1.1E-07	9.8E-08	9.1E-08	1.3E-07	1.4E-07
7	33213-65-9	Endosulfan II	2.98E-06	4.3E-11	17	9.7E-11	1.1E-10	1.3E-10	1.5E-10	1.7E-10	1.9E-10	2.1E-10	2.4E-10	2.5E-10	2.6E-10	2.7E-10	2.7E-10	2.6E-10	2.5E-10	2.4E-10	2.2E-10	1.5E-10	1.3E-10	1.2E-10	1.8E-10	1.9E-10
7	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.14E-03	1.6E-08	17	3.7E-08	4.4E-08	5.0E-08	5.7E-08	6.5E-08	7.3E-08	8.1E-08	9.0E-08	9.6E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	9.6E-08	9.1E-08	8.4E-08	5.6E-08	5.1E-08	4.7E-08	6.7E-08	7.2E-08
7	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	7.32E-04	1.1E-08	17	2.4E-08	2.8E-08	3.2E-08	3.7E-08	4.1E-08	4.7E-08	5.2E-08	5.8E-08	6.2E-08	6.5E-08	6.6E-08	6.6E-08	6.4E-08	6.2E-08	5.8E-08	5.4E-08	3.6E-08	3.3E-08	3.0E-08	4.3E-08	4.7E-08
7	496-10-6	OCTAHYDROINDENE	8.41E-03	1.2E-07	17	2.7E-07	3.2E-07	3.7E-07	4.2E-07	4.8E-07	5.4E-07	6.0E-07	6.6E-07	7.1E-07	7.4E-07	7.6E-07	7.5E-07	7.4E-07	7.1E-07	6.7E-07	6.2E-07	4.1E-07	3.7E-07	3.5E-07	5.0E-07	5.3E-07
7	5103-74-2	GAMMA-CHLORDANE	4.61E-06	6.6E-11	17	1.5E-10	1.8E-10	2.0E-10	2.3E-10	2.6E-10	3.0E-10	3.3E-10	3.6E-10	3.9E-10	4.1E-10	4.1E-10	4.1E-10	4.0E-10	3.9E-10	3.7E-10	3.4E-10	2.3E-10	2.1E-10	1.9E-10	2.7E-10	2.9E-10
7	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.03E-03	2.9E-08	17	6.6E-08	7.8E-08	9.0E-08	1.0E-07	1.2E-07	1.3E-07	1.5E-07	1.6E-07	1.7E-07	1.8E-07	1.8E-07	1.8E-07	1.8E-07	1.7E-07	1.6E-07	1.5E-07	1.0E-07	9.1E-08	8.5E-08	1.2E-07	1.3E-07
7	53469-21-9	Aroclor 1242	1.14E-03	1.6E-08	17	3.7E-08	4.4E-08	5.0E-08	5.7E-08	6.5E-08	7.3E-08	8.1E-08	9.0E-08	9.6E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	9.6E-08	9.1E-08	8.4E-08	5.6E-08	5.1E-08	4.7E-08	6.7E-08	7.2E-08
7	53494-70-5	Endrin ketone	8.13E-07	1.2E-11	17	2.7E-11	3.1E-11	3.6E-11	4.1E-11	4.6E-11	5.2E-11	5.8E-11	6.4E-11	6.9E-11	7.2E-11	7.3E-11	7.3E-11	7.1E-11	6.8E-11	6.5E-11	6.0E-11	4.0E-11	3.6E-11	3.4E-11	4.8E-11	5.2E-11
7	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.08E-02	1.6E-07	17	3.5E-07	4.2E-07	4.8E-07	5.4E-07	6.1E-07	6.9E-07	7.8E-07	8.6E-07	9.2E-07	9.6E-07	9.8E-07	9.7E-07	9.5E-07	9.1E-07	8.6E-07	8.0E-07	5.3E-07	4.8E-07	4.5E-07	6.4E-07	6.9E-07
7	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	4.88E-04	7.0E-09	17	1.6E-08	1.9E-08	2.2E-08	2.4E-08	2.8E-08	3.1E-08	3.5E-08	3.9E-08	4.1E-08	4.3E-08	4.4E-08	4.4E-08	4.3E-08	4.1E-08	3.9E-08	3.6E-08	2.4E-08	2.2E-08	2.0E-08	2.9E-08	3.1E-08
7	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	2.09E-03	3.0E-08	17	6.8E-08	8.0E-08	9.2E-08	1.0E-07	1.2E-07	1.3E-07	1.5E-07	1.7E-07	1.8E-07	1.8E-07	1.9E-07	1.9E-07	1.8E-07	1.8E-07	1.7E-07	1.5E-07	1.0E-07	9.3E-08	8.7E-08	1.2E-07	1.3E-07
7	591-78-6	2-Hexanone	9.22E-07	1.3E-11	17	3.0E-11	3.6E-11	4.1E-11	4.6E-11	5.2E-11	5.9E-11	6.6E-11	7.3E-11	7.8E-11	8.2E-11	8.3E-11	8.3E-11	8.1E-11	7.8E-11	7.3E-11	6.8E-11	4.5E-11	4.1E-11	3.8E-11	5.5E-11	5.9E-11
7	65-85-0	Benzoic acid	4.34E-05	6.2E-10	17	1.4E-09	1.7E-09	1.9E-09	2.2E-09	2.5E-09	2.8E-09	3.1E-09	3.4E-09	3.7E-09	3.8E-09	3.9E-09	3.9E-09	3.8E-09	3.7E-09	3.5E-09	3.2E-09	2.1E-09	1.9E-09	1.8E-09	2.6E-09	2.8E-09
7	67-66-3	Chloroform	6.78E-03	9.7E-08	17	2.2E-07	2.6E-07	3.0E-07	3.4E-07	3.8E-07	4.3E-07	4.8E-07	5.4E-07	5.7E-07	6.0E-07	6.1E-07	6.1E-07	5.9E-07	5.7E-07	5.4E-07	5.0E-07	3.3E-07	3.0E-07	2.8E-07	4.0E-07	4.3E-07
7	71-55-6	1,1,1-Trichloroethane	3.52E-03	5.1E-08	17	1.2E-07	1.4E-07	1.6E-07	1.8E-07	2.0E-07	2.3E-07	2.5E-07	2.8E-07	3.0E-07	3.1E-07	3.2E-07	3.2E-07	3.1E-07	3.0E-07	2.8E-07	2.6E-07	1.7E-07	1.6E-07	1.5E-07	2.1E-07	2.2E-07
7	75-34-3	1,1-Dichloroethane	1.90E-04	2.7E-09	17	6.2E-09	7.3E-09	8.4E-09	9.5E-09	1.1E-08	1.2E-08	1.4E-08	1.5E-08	1.6E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08	1.6E-08	1.5E-08	1.4E-08	9.3E-09	8.5E-09	7.9E-09	1.1E-08	1.2E-08
7	75-35-4	1,1-Dichloroethene	1.17E-06	1.7E-11	17	3.8E-11	4.5E-11	5.2E-11	5.9E-11	6.6E-11	7.5E-11	8.3E-11	9.2E-11	9.9E-11	1.0E-10	1.0E-10	1.0E-10	1.0E-10	9.8E-11	9.3E-11	8.6E-11	5.7E-11	5.2E-11	4.8E-11	6.9E-11	7.4E-11
7	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.33E-03	3.4E-08	17	7.6E-08	9.0E-08	1.0E-07	1.2E-07	1.3E-07	1.5E-07	1.7E-07	1.8E-07	2.0E-07	2.1E-07	2.1E-07	2.1E-07	2.0E-07	2.0E-07	1.9E-07	1.7E-07	1.1E-07	1.0E-07	9.7E-08	1.4E-07	1.5E-07
7	79-34-5	1,1,2,2-Tetrachloroethane	2.55E-05	3.7E-10	17	8.3E-10	9.8E-10	1.1E-09	1.3E-09	1.4E-09	1.6E-09	1.8E-09	2.0E-09	2.2E-09	2.3E-09	2.3E-09	2.3E-09	2.2E-09	2.1E-09	2.0E-09	1.9E-09	1.3E-09	1.1E-09	1.1E-09	1.5E-09	1.6E-09
7	87-61-6	1,2,3-Trichlorobenzene	3.52E-07	5.1E-12	17	1.2E-11	1.4E-11	1.6E-11	1.8E-11	2.0E-11	2.3E-11	2.5E-11	2.8E-11	3.0E-11	3.1E-11	3.2E-11	3.2E-11	3.1E-11	3.0E-11	2.8E-11	2.6E-11	1.7E-11	1.6E-11	1.5E-11	2.1E-11	2.2E-11
7	91-17-8	DECAHYDRONAPHTHALENE	4.07E-03	5.8E-08	17	1.3E-07	1.6E-07	1.8E-07	2.0E-07	2.3E-07	2.6E-07	2.9E-07	3.2E-07	3.4E-07	3.6E-07	3.7E-07	3.7E-07	3.6E-07	3.4E-07	3.2E-07	3.0E-07	2.0E-07	1.8E-07	1.7E-07	2.4E-07	2.6E-07
7	941-60-6	1,1,4-6-TETRAMETHYLINDANE	5.42E-04	7.8E-09	17	1.8E-08	2.1E-08	2.4E-08	2.7E-08	3.1E-08	3.5E-08	3.9E-08	4.3E-08	4.6E-08	4.8E-08	4.9E-08	4.9E-08	4.8E-08	4.6E-08	4.3E-08	4.0E-08	2.7E-08	2.4E-08	2.3E-08	3.2E-08	3.4E-08
7	96-12-8	1,2-Dibromo-3-Chloropropane	1.60E-06	2.3E-11	17	5.2E-11	6.2E-11	7.1E-11	8.0E-11	9.1E-11	1.0E-10	1.1E-10	1.3E-10	1.4E-10	1.4E-10	1.4E-10	1.4E-10	1.4E-10	1.3E-10	1.3E-10	1.2E-10	7.9E-11	7.1E-11	6.6E-11	9.5E-11	1.0E-10
7	98-06-6	tert-Butylbenzene	7.32E-07	1.1E-11	17	2.4E-11	2.8E-11	3.2E-11	3.7E-11	4.1E-11	4.7E-11	5.2E-11	5.8E-11	6.2E-11	6.5E-11	6.6E-11	6.6E-11	6.4E-11	6.2E-11	5.8E-11	5.4E-11	3.6E-11	3.3E-11	3.0E-11	4.3E-11	4.7E-11
HAUL_N	100-41-4	Ethylbenzene	5.13E-02	7.4E-07	6	2.2E-06	3.0E-06	4.4E-06	7.2E-06	1.5E-05	5.5E-05	6.5E-05	4.4E-05	3.3E-05	2.7E-05	2.3E-05	2.0E-05	1.8E-05	1.6E-05	1.4E-05	1.2E-05	6.6E-06	5.6E-06	5.0E-06	8.6E-06	1.0E-05
HAUL_N	100-42-5	Styrene	3.22E-02	4.6E-07	6	1.4E-06	1.9E-06	2.8E-06	4.5E-06	9.6E-06	3.4E-05	4.1E-05	2.8E-05	2.1E-05	1.7E-05	1.4E-05	1.3E-05	1.1E-05	1.0E-05	8.8E-06	7.7E-06	4.1E-06	3.5E-06	3.2E-06	5.4E-06	6.4E-06
HAUL_N	103-65-1	n-Propylbenzene	6.31E-03	9.1E-08	6	2.7E-07	3.7E-07	5.4E-07	8.9E-07	1.9E-06	6.7E-06	8.0E-06	5.5E-06	4.1E-06	3.3E-06	2.8E-06	2.5E-06	2.2E-06	2.0E-06	1.7E-06	1.5E-06	8.1E-07	6.9E-07	6.2E-07	1.1E-06	1.3E-06
HAUL_N	104-51-8	n-Butylbenzene	1.14E-03	1.6E-08	6	4.9E-08	6.7E-08	9.8E-08	1.6E-07	3.4E-07	1.2E-06	1.5E-06	9.9E-07	7.3E-07	5.9E-07	5.1E-07	4.5E-07	4.0E-07	3.6E-07	3.1E-07	2.7E-07	1.5E-07	1.2E-07	1.1E-07	1.9E-07	2.3E-07
HAUL_N	108-67-8	1,3,5-Trimethylbenzene	3.54E-03	5.1E-08	6	1.5E-07	2.1E-07	3.0E-07	5.0E-07	1.1E-06	3.8E-06	4.5E-06	3.1E-06	2.3E-06	1.8E-06	1.6E-06	1.4E-06	1.3E-06	1.1E-06	9.7E-07	8.4E-07	4.5E-07	3.9E-07	3.5E-07	5.9E-07	7.1E-07
HAUL_N	108-88-3	Toluene	3.84E-03	5.5E-08	6	1.7E-07	2.3E-07	3.3E-07	5.4E-07	1.1E-06	4.1E-06	4.9E-06	3.3E-06	2.5E-06	2.0E-06	1.7E-06	1.5E-06	1.4E-06	1.2E-06	1.1E-06	9.2E-07	4.9E-07	4.2E-07	3.8E-07	6.4E-07	7.7E-07
HAUL_N	11096-82-5	Aroclor 1260	3.39E-04	4.9E-09	6	1.5E-08	2.0E-08	2.9E-08	4.8E-08	1.0E-07	3.6E-07	4.3E-07	2.9E-07	2.2E-07	1.8E-07	1.5E-07	1.3E-07	1.2E-07	1.1E-07	9.3E-08	8.1E-08	4.3E-08	3.7E-08	3.3E-08	5.7E-08	6.8E-08
HAUL_N	120-12-7	Anthracene	3.15E-03	4.5E-08	6	1.4E-07	1.9E-07	2.7E-07	4.4E-07	9.4E-07	3.3E-06	4.0E-06	2.7E-06	2.0E-06	1.6E-06	1.4E-06	1.2E-06	1.1E-06	9.9E-07	8.6E-07	7.5E-07	4.0E-07	3.5E-07	3.1E-07	5.3E-07	6.3E-07

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																				
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	129-00-0	Pyrene	9.99E-04	1.4E-08	6	4.3E-08	5.9E-08	8.6E-08	1.4E-07	3.0E-07	1.1E-06	1.3E-06	8.7E-07	6.4E-07	5.2E-07	4.5E-07	4.0E-07	3.5E-07	3.1E-07	2.7E-07	2.4E-07	1.3E-07	1.1E-07	9.8E-08	1.7E-07	2.0E-07
HAUL_N	1330-20-7	XYLENES (TOTAL)	1.95E-02	2.8E-07	6	8.5E-07	1.1E-06	1.7E-06	2.7E-06	5.8E-06	2.1E-05	2.5E-05	1.7E-05	1.3E-05	1.0E-05	8.7E-06	7.7E-06	6.9E-06	6.1E-06	5.4E-06	4.7E-06	2.5E-06	2.1E-06	1.9E-06	3.3E-06	3.9E-06
HAUL_N	135-98-8	(1-METHYLPROPYL)BENZENE	2.79E-02	4.0E-07	6	1.2E-06	1.6E-06	2.4E-06	3.9E-06	8.3E-06	3.0E-05	3.6E-05	2.4E-05	1.8E-05	1.4E-05	1.2E-05	1.1E-05	9.9E-06	8.8E-06	7.7E-06	6.7E-06	3.6E-06	3.1E-06	2.7E-06	4.7E-06	5.6E-06
HAUL_N	179601-23-1	m,p-Xylenes	8.73E-03	1.3E-07	6	3.8E-07	5.1E-07	7.5E-07	1.2E-06	2.6E-06	9.3E-06	1.1E-05	7.6E-06	5.6E-06	4.5E-06	3.9E-06	3.5E-06	3.1E-06	2.7E-06	2.4E-06	2.1E-06	1.1E-06	9.6E-07	8.6E-07	1.5E-06	1.7E-06
HAUL_N	67-64-1	2-PROPANONE	7.46E-03	1.1E-07	6	3.2E-07	4.4E-07	6.4E-07	1.1E-06	2.2E-06	7.9E-06	9.5E-06	6.5E-06	4.8E-06	3.9E-06	3.3E-06	3.0E-06	2.7E-06	2.4E-06	2.0E-06	1.8E-06	9.6E-07	8.2E-07	7.3E-07	1.2E-06	1.5E-06
HAUL_N	71-43-2	Benzene	2.41E-03	3.5E-08	6	1.0E-07	1.4E-07	2.1E-07	3.4E-07	7.2E-07	2.6E-06	3.1E-06	2.1E-06	1.5E-06	1.2E-06	1.1E-06	9.6E-07	8.6E-07	7.6E-07	6.6E-07	5.7E-07	3.1E-07	2.6E-07	2.4E-07	4.0E-07	4.8E-07
HAUL_N	7421-93-4	Endrin aldehyde	7.95E-06	1.1E-10	6	3.5E-10	4.7E-10	6.8E-10	1.1E-09	2.4E-09	8.5E-09	1.0E-08	6.9E-09	5.1E-09	4.1E-09	3.5E-09	3.2E-09	2.8E-09	2.5E-09	2.2E-09	1.9E-09	1.0E-09	8.7E-10	7.8E-10	1.3E-09	1.6E-09
HAUL_N	7439-98-7	Molybdenum	7.13E-03	1.0E-07	6	3.1E-07	4.2E-07	6.1E-07	1.0E-06	2.1E-06	7.6E-06	9.1E-06	6.2E-06	4.6E-06	3.7E-06	3.2E-06	2.8E-06	2.5E-06	2.2E-06	2.0E-06	1.7E-06	9.1E-07	7.8E-07	7.0E-07	1.2E-06	1.4E-06
HAUL_N	75-09-2	Methylene Chloride	3.27E-03	4.7E-08	6	1.4E-07	1.9E-07	2.8E-07	4.6E-07	9.7E-07	3.5E-06	4.2E-06	2.8E-06	2.1E-06	1.7E-06	1.5E-06	1.3E-06	1.2E-06	1.0E-06	9.0E-07	7.8E-07	4.2E-07	3.6E-07	3.2E-07	5.4E-07	6.5E-07
HAUL_N	75-69-4	Trichlorofluoromethane	1.09E-03	1.6E-08	6	4.8E-08	6.4E-08	9.4E-08	1.5E-07	3.3E-07	1.2E-06	1.4E-06	9.5E-07	7.0E-07	5.7E-07	4.9E-07	4.3E-07	3.9E-07	3.4E-07	3.0E-07	2.6E-07	1.4E-07	1.2E-07	1.1E-07	1.8E-07	2.2E-07
HAUL_N	78-93-3	2-Butanone	2.12E-03	3.0E-08	6	9.2E-08	1.2E-07	1.8E-07	3.0E-07	6.3E-07	2.3E-06	2.7E-06	1.8E-06	1.4E-06	1.1E-06	9.4E-07	8.4E-07	7.5E-07	6.7E-07	5.8E-07	5.1E-07	2.7E-07	2.3E-07	2.1E-07	3.5E-07	4.2E-07
HAUL_N	83-32-9	Acenaphthene	8.14E-04	1.2E-08	6	3.5E-08	4.8E-08	7.0E-08	1.1E-07	2.4E-07	8.7E-07	1.0E-06	7.1E-07	5.2E-07	4.2E-07	3.6E-07	3.2E-07	2.9E-07	2.6E-07	2.2E-07	1.9E-07	1.0E-07	8.9E-08	8.0E-08	1.4E-07	1.6E-07
HAUL_N	85-01-8	Phenanthrene	3.07E-01	4.4E-06	6	1.3E-05	1.8E-05	2.6E-05	4.3E-05	9.1E-05	3.3E-04	3.9E-04	2.7E-04	2.0E-04	1.6E-04	1.4E-04	1.2E-04	1.1E-04	9.7E-05	8.4E-05	7.3E-05	3.9E-05	3.4E-05	3.0E-05	5.1E-05	6.1E-05
HAUL_N	86-73-7	Fluorene	4.94E-03	7.1E-08	6	2.1E-07	2.9E-07	4.2E-07	7.0E-07	1.5E-06	5.3E-06	6.3E-06	4.3E-06	3.2E-06	2.6E-06	2.2E-06	2.0E-06	1.8E-06	1.6E-06	1.4E-06	1.2E-06	6.3E-07	5.4E-07	4.9E-07	8.2E-07	9.9E-07
HAUL_N	91-20-3	Naphthalene	3.84E-02	5.5E-07	6	1.7E-06	2.3E-06	3.3E-06	5.4E-06	1.1E-05	4.1E-05	4.9E-05	3.3E-05	2.5E-05	2.0E-05	1.7E-05	1.5E-05	1.4E-05	1.2E-05	1.1E-05	9.2E-06	4.9E-06	4.2E-06	3.8E-06	6.4E-06	7.7E-06
HAUL_N	91-57-6	2-Methylnaphthalene	1.67E-02	2.4E-07	6	7.2E-07	9.8E-07	1.4E-06	2.3E-06	5.0E-06	1.8E-05	2.1E-05	1.4E-05	1.1E-05	8.6E-06	7.4E-06	6.6E-06	5.9E-06	5.2E-06	4.6E-06	4.0E-06	2.1E-06	1.8E-06	1.6E-06	2.8E-06	3.3E-06
HAUL_N	95-47-6	o-Xylene	4.18E-03	6.0E-08	6	1.8E-07	2.5E-07	3.6E-07	5.9E-07	1.2E-06	4.5E-06	5.3E-06	3.6E-06	2.7E-06	2.2E-06	1.9E-06	1.7E-06	1.5E-06	1.3E-06	1.1E-06	1.0E-06	5.4E-07	4.6E-07	4.1E-07	7.0E-07	8.4E-07
HAUL_N	95-50-1	1,2-Dichlorobenzene	6.14E-04	8.8E-09	6	2.7E-08	3.6E-08	5.3E-08	8.6E-08	1.8E-07	6.5E-07	7.8E-07	5.3E-07	3.9E-07	3.2E-07	2.7E-07	2.4E-07	2.2E-07	1.9E-07	1.7E-07	1.5E-07	7.9E-08	6.7E-08	6.0E-08	1.0E-07	1.2E-07
HAUL_N	95-63-6	1,2,4-Trimethylbenzene	1.08E-02	1.5E-07	6	4.7E-07	6.3E-07	9.2E-07	1.5E-06	3.2E-06	1.1E-05	1.4E-05	9.3E-06	6.9E-06	5.6E-06	4.8E-06	4.3E-06	3.8E-06	3.4E-06	3.0E-06	2.6E-06	1.4E-06	1.2E-06	1.1E-06	1.8E-06	2.2E-06
HAUL_N	98-82-8	1-METHYLETHYLBENZENE	3.12E-02	4.5E-07	6	1.4E-06	1.8E-06	2.7E-06	4.4E-06	9.3E-06	3.3E-05	4.0E-05	2.7E-05	2.0E-05	1.6E-05	1.4E-05	1.2E-05	1.1E-05	9.8E-06	8.6E-06	7.5E-06	4.0E-06	3.4E-06	3.1E-06	5.2E-06	6.2E-06
HAUL_N	10042-59-8	2-PROPYL-1-HEPTANOL	7.47E-02	1.1E-06	6	3.2E-06	4.4E-06	6.4E-06	1.1E-05	2.2E-05	8.0E-05	9.5E-05	6.5E-05	4.8E-05	3.9E-05	3.3E-05	3.0E-05	2.7E-05	2.4E-05	2.1E-05	1.8E-05	9.6E-06	8.2E-06	7.4E-06	1.2E-05	1.5E-05
HAUL_N	1031-07-8	Endosulfan sulfate	1.69E-05	2.4E-10	6	7.3E-10	1.0E-09	1.5E-09	2.4E-09	5.0E-09	1.8E-08	2.2E-08	1.5E-08	1.1E-08	8.8E-09	7.5E-09	6.7E-09	6.0E-09	5.3E-09	4.6E-09	4.0E-09	2.2E-09	1.9E-09	1.7E-09	2.8E-09	3.4E-09
HAUL_N	106-42-3	P-XYLENE	1.53E-03	2.2E-08	6	6.7E-08	9.0E-08	1.3E-07	2.2E-07	4.6E-07	1.6E-06	2.0E-06	1.3E-06	9.9E-07	7.9E-07	6.8E-07	6.1E-07	5.5E-07	4.8E-07	4.2E-07	3.7E-07	2.0E-07	1.7E-07	1.5E-07	2.6E-07	3.1E-07
HAUL_N	106-43-4	4-Chlorotoluene	4.72E-03	6.8E-08	6	2.1E-07	2.8E-07	4.1E-07	6.6E-07	1.4E-06	5.0E-06	6.0E-06	4.1E-06	3.0E-06	2.4E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.3E-06	1.1E-06	6.0E-07	5.2E-07	4.6E-07	7.9E-07	9.4E-07
HAUL_N	106-46-7	1,4-Dichlorobenzene	9.05E-04	1.3E-08	6	3.9E-08	5.3E-08	7.8E-08	1.3E-07	2.7E-07	9.6E-07	1.2E-06	7.8E-07	5.8E-07	4.7E-07	4.0E-07	3.6E-07	3.2E-07	2.8E-07	2.5E-07	2.2E-07	1.2E-07	9.9E-08	8.9E-08	1.5E-07	1.8E-07
HAUL_N	106-93-4	1,2-Dibromoethane	2.40E-05	3.5E-10	6	1.0E-09	1.4E-09	2.1E-09	3.4E-09	7.1E-09	2.6E-08	3.1E-08	2.1E-08	1.5E-08	1.2E-08	1.1E-08	9.5E-09	8.5E-09	7.6E-09	6.6E-09	5.7E-09	3.1E-09	2.6E-09	2.4E-09	4.0E-09	4.8E-09
HAUL_N	107-06-2	1,2-Dichloroethane	3.93E-02	5.7E-07	6	1.7E-06	2.3E-06	3.4E-06	5.5E-06	1.2E-05	4.2E-05	5.0E-05	3.4E-05	2.5E-05	2.0E-05	1.8E-05	1.6E-05	1.4E-05	1.2E-05	1.1E-05	9.4E-06	5.0E-06	4.3E-06	3.9E-06	6.6E-06	7.9E-06
HAUL_N	108-38-3	M-XYLENE	1.06E-01	1.5E-06	6	4.6E-06	6.2E-06	9.1E-06	1.5E-05	3.2E-05	1.1E-04	1.4E-04	9.2E-05	6.8E-05	5.5E-05	4.7E-05	4.2E-05	3.8E-05	3.3E-05	2.9E-05	2.5E-05	1.4E-05	1.2E-05	1.0E-05	1.8E-05	2.1E-05
HAUL_N	108-90-7	Chlorobenzene	2.60E-02	3.7E-07	6	1.1E-06	1.5E-06	2.2E-06	3.7E-06	7.7E-06	2.8E-05	3.3E-05	2.3E-05	1.7E-05	1.3E-05	1.2E-05	1.0E-05	9.2E-06	8.2E-06	7.1E-06	6.2E-06	3.3E-06	2.9E-06	2.6E-06	4.3E-06	5.2E-06
HAUL_N	11097-69-1	Aroclor 1254	2.40E-02	3.5E-07	6	1.0E-06	1.4E-06	2.1E-06	3.4E-06	7.1E-06	2.6E-05	3.1E-05	2.1E-05	1.5E-05	1.2E-05	1.1E-05	9.5E-06	8.5E-06	7.6E-06	6.6E-06	5.7E-06	3.1E-06	2.6E-06	2.4E-06	4.0E-06	4.8E-06
HAUL_N	120-82-1	1,2,4-Trichlorobenzene	3.93E-06	5.7E-11	6	1.7E-10	2.3E-10	3.4E-10	5.5E-10	1.2E-09	4.2E-09	5.0E-09	3.4E-09	2.5E-09	2.0E-09	1.8E-09	1.6E-09	1.4E-09	1.2E-09	1.1E-09	9.4E-10	5.0E-10	4.3E-10	3.9E-10	6.6E-10	7.9E-10
HAUL_N	12672-29-6	Aroclor 1248	2.05E-02	2.9E-07	6	8.9E-07	1.2E-06	1.8E-06	2.9E-06	6.1E-06	2.2E-05	2.6E-05	1.8E-05	1.3E-05	1.1E-05	9.1E-06	8.1E-06	7.3E-06	6.4E-06	5.6E-06	4.9E-06	2.6E-06	2.2E-06	2.0E-06	3.4E-06	4.1E-06
HAUL_N	12674-11-2	Aroclor 1016	6.29E-03	9.1E-08	6	2.7E-07	3.7E-07	5.4E-07	8.9E-07	1.9E-06	6.7E-06	8.0E-06	5.5E-06	4.0E-06	3.3E-06	2.8E-06	2.5E-06	2.2E-06	2.0E-06	1.7E-06	1.5E-06	8.1E-07	6.9E-07	6.2E-07	1.1E-06	1.3E-06
HAUL_N	127-18-4	Tetrachloroethene	3.07E-05	4.4E-10	6	1.3E-09	1.8E-09	2.6E-09	4.3E-09	9.1E-09	3.3E-08	3.9E-08	2.7E-08	2.0E-08	1.6E-08	1.4E-08	1.2E-08	1.1E-08	9.7E-09	8.4E-09	7.3E-09	3.9E-09	3.4E-09	3.0E-09	5.1E-09	6.1E-09
HAUL_N	132-64-9	Dibenzofuran	2.12E-03	3.1E-08	6	9.2E-08	1.2E-07	1.8E-07	3.0E-07	6.3E-07	2.3E-06	2.7E-06	1.8E-06	1.4E-06	1.1E-06	9.5E-07	8.4E-07	7.5E-07	6.7E-07	5.8E-07	5.1E-07	2.7E-07	2.3E-07	2.1E-07	3.5E-07	4.2E-07
HAUL_N	1653-40-3	6-METHYL-1,1-HEPTANOL	1.18E-01	1.7E-06	6	5.1E-06	6.9E-06	1.0E-05	1.7E-05	3.5E-05	1.3E-04	1.5E-04	1.0E-04	7.6E-05	6.1E-05	5.3E-05	4.7E-05	4.2E-05	3.7E-05	3.2E-05	2.8E-05	1.5E-05	1.3E-05	1.2E-05	2.0E-05	2.4E-05
HAUL_N	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	1.30E-02	1.9E-07	6	5.6E-07	7.6E-07	1.1E-06	1.8E-06	3.9E-06	1.4E-05	1.7E-05	1.1E-05	8.3E-06	6.7E-06	5.8E-06	5.2E-06	4.6E-06	4.1E-06	3.6E-06	3.1E-06	1.7E-06	1.4E-06	1.3E-06	2.2E-06	2.6E-06
HAUL_N	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	3.27E-02	4.7E-07	6	1.4E-06	1.9E-06	2.8E-06	4.6E-06	9.7E-06	3.5E-05	4.2E-05	2.8E-05	2.1E-05	1.7E-05	1.5E-05	1.3E-05	1.2E-05	1.0E-05	9.0E-06	7.8E-06	4.2E-06	3.6E-06	3.2E-06	5.4E-06	6.5E-06
HAUL_N	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	1.61E-02	2.3E-07	6	7.0E-07	9.5E-07	1.4E-06	2.3E-06	4.8E-06	1.7E-05	2.1E-05	1.4E-05	1.0E-05	8.4E-06	7.2E-06	6.4E-06	5.7E-06	5.1E-06	4.4E-06	3.9E-06	2.1E-06	1.8E-06	1.6E-06	2.7E-06	3.2E-06
HAUL_N	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	1.34E-02	1.9E-07	6	5.8E-07	7.9E-07	1.1E-06	1.9E-06	4.0E-06	1.4E-05	1.7E-05	1.2E-05	8.6E-06	6.9E-06	6.0E-06	5.3E-06	4.8E-06	4.2E-06	3.7E-06	3.2E-06	1.7E-06	1.5E-06	1.3E-06	2.2E-06	2.7E-06
HAUL_N	26952-21-6	ISOOCTANOL	4.33E-02	6.2E-07	6	1.9E-06	2.5E-06	3.7E-06	6.1E-06	1.3E-05	4.6E-05	5.5E-05	3.8E-05	2.8E-05	2.2E-05	1.9E-05	1.7E-05	1.5E-05	1.4E-05	1.2E-05	1.0E-05	5.5E-06	4.8E-06	4.3E-06	7.2E-06	8.7E-06
HAUL_N	2719-52-0	(1-METHYLBUTYL)BENZENE	2.40E-02	3.5E-07	6	1.0E-06	1.4E-06	2.1E-06	3.4E-06	7.1E-06	2.6E-05	3.1E-05	2.1E-05	1.5E-05	1.2E-05	1.1E-05	9.5E-06	8.5E-06	7.6E-06	6.6E-06	5.7E-06	3.1E-06	2.6E-06	2.4E-06	4.0E-06	4.8E-06
HAUL_N	2883-05-8	2-CYCLOHEXYLDECANE	3.19E-02	4.6E-07	6	1.4E-06	1.9E-06	2.7E-06	4.5E-06	9.5E-06	3.4E-05	4.1E-05	2.8E-05	2.0E-05	1.6E-05	1.4E-05	1.3E-05	1.1E-05	1.0E-05	8.8E-06	7.6E-06	4.1E-06	3.5E-06	3.1E-06	5.3E-06	6.4E-06
HAUL_N	33213-65-9	Endosulfan II	4.33E-05	6.2E-10	6	1.9E-09	2.5E-09	3.7E-09	6.1E-09	1.3E-08	4.6E-08	5.5E-08	3.8E-08	2.8E-08	2.2E-08	1.9E-08	1.7E-08	1.5E-08	1.4E-08	1.2E-08	1.0E-08	5.5E-09	4.8E-09	4.3E-09	7.2E-09	8.7E-09
HAUL_N	3875-51-2	1-METHYLETHYLCYCLOPENTANE	1.65E-02	2.4E-07	6	7.2E-07	9.7E-07	1.4E-06	2.3E-06	4.9E-06	1.8E-05	2.1E-05	1.4E-05	1.1E-05	8.6E-06	7.4E-06	6.6E-06	5.9E-06	5.2E-06	4.5E-06	3.9E-06	2.1E-06	1.8E-06	1.6E-06	2.8E-06	3.3E-06
HAUL_N	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	1.06E-02	1.5E-07	6	4.6E-07	6.2E-07	9.1E-07	1.5E-06	3.2E-06	1.1E-05	1.4E-05	9.2E-06	6.8E-06	5.5E-06	4.7E-06	4.2E-06	3.8E-06	3.3E-06	2.9E-06	2.5E-06	1.4E-06	1.2E-06	1.0E-06	1.8E-06	2.1E-06
HAUL_N	496-10-6	OCTAHYDROINDENE	1.22E-01	1.8E-06	6	5.3E-06	7.2E-06	1.0E-05	1.7E-05	3.6E-05	1.3E-04	1.6E-04	1.1E-04	7.8E-05	6.3E-05	5.4E-05	4.8E-05	4.3E-05	3.8E-05	3.3E-05	2.9E-05	1.6E-05	1.3E-05	1.2E-05	2.0E-05	2.4E-05
HAUL_N	5103-74-2	GAMMA-CHLORDANE	6.69E-05	9.6E-10	6	2.9E-09	3.9E-09	5.7E-09	9.4E-09	2.0E-08	7.1E-08	8.5E-08	5.8E-08	4.3E-08	3.5E-08	3.0E-08	2.7E-08	2.4E-08	2.1E-08	1.8E-08	1.6E-08	8.6E-09	7.3E-09	6.6E-09	1.1E-08	1.3E-08
HAUL_N	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	2.95E-02	4.2E-07	6	1.3E-06	1.7E-06	2.5E-06	4.2E-06	8.8E-06	3.1E-05	3.8E-05	2.6E-05	1.9E-05	1.5E-05	1.3E-05	1.2E-05	1.0E-05	9.3E-06	8.1E-06	7.0E-06	3.8E-06	3.2E-06	2.9E-06	4.9E-06	5.9E-06
HAUL_N	53469-21-9	Aroclor 1242	1.65E-02	2.4E-07	6	7.2E-07	9.7E-07	1.4E-06	2.3E-06	4.9E-06	1.8E-05	2.1E-05	1.4E-05	1.1E-05	8.6E-06	7.4E-06	6.6E-06	5.9E-06	5.2E-06	4.5E-06	3.9E-06	2.1E-06	1.8E-06	1.6E-06	2.8E-06	3.3E-06
HAUL_N	53494-70-5	Endrin ketone	1.18E-05	1.7E-10	6	5.1E-10	6.9E-10	1.0E-09	1.7E-09	3.5E-09	1.3E-08	1.5E-08	1.0E-08	7.6E-09	6.1E-09	5.3E-09	4.7E-09	4.2E-09	3.7E-09	3.2E-09	2.8E-09	1.5E-09	1.3E-09	1.2E-09	2.0E-09	2.4E-09
HAUL_N	5364-83-0	(1-PROPENYL)CYCLOHEXANE	1.57E-01	2.3E-06	6	6.8E-06	9.3E-06	1.4E-05	2.2E-05	4.7E-05	1.7E-04	2.0E-04	1.4E-04	1.0E-04	8.1E-05	7.0E-05	6.2E-05	5.6E-05	5.0E-05	4.3E-05	3.8E-05	2.0E-05	1.7E-05	1.5E-05	2.6E-05	3.1E-05
HAUL_N	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	7.08E-03	1.0E-07	6	3.1E-07	4.2E-07	6.1E-07	1.0E-06	2.1E-06	7.5E-06	9.0E-06	6.1E-06	4.6E-06	3.7E-06	3.2E-06	2.8E-06	2.5E-06	2.2E-06	1.9E-06	1.7E-06	9.1E-07	7.8E-07	7.0E-07	1.2E-06	1.4E-06
HAUL_N	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	3.03E-02	4.4E-07	6	1.3E-06	1.8E-06	2.6E-06	4.3E-06	9.0E-06	3.2E-05	3.9E-05	2.6E-05	1.9E-05	1.6E-05	1.4E-05	1.2E-05	1.1E-05	9.5E-06	8.3E-06	7.2E-06	3.9E-06	3.3E-06	3.0E-06	5.1E-06	6.1E-06
HAUL_N	591-78-6	2-Hexanone	1.34E-05	1.9E-10	6	5.8E-10	7.9E-10	1.1E-09	1.9E-09	4.0E-09	1.4E-08	1.7E-08	1.2E-08	8.6E-09	6.9E-09	6.0E-09	5.3E-09	4.8E-09	4.2E-09	3.7E-09	3.2E-09	1.7E-09	1.5E-09	1.3E-09	2.2E-09	2.7E-09
HAUL_N	65-85-0	Benzoic acid	6.29E-04	9.1E-09	6	2.7E-08	3.7E-08	5.4E-08	8.9E-08	1.9E-07	6.7E-07	8.0E-07	5.5E-07	4.0E-07	3.3E-07	2.8E-07	2.5E-07	2.2E-07	2.0E-07	1.7E-07	1.5E-07	8.1E-08	6.9E-08	6.2E-08	1.1E-07	1.3E-07

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	67-66-3	Chloroform	9.84E-02	1.4E-06	6	4.3E-06	5.8E-06	8.4E-06	1.4E-05	2.9E-05	1.0E-04	1.3E-04	8.5E-05	6.3E-05	5.1E-05	4.4E-05	3.9E-05	3.5E-05	3.1E-05	2.7E-05	2.3E-05	1.3E-05	1.1E-05	9.7E-06	1.6E-05	2.0E-05
HAUL_N	71-55-6	1,1,1-Trichloroethane	5.11E-02	7.4E-07	6	2.2E-06	3.0E-06	4.4E-06	7.2E-06	1.5E-05	5.4E-05	6.5E-05	4.4E-05	3.3E-05	2.6E-05	2.3E-05	2.0E-05	1.8E-05	1.6E-05	1.4E-05	1.2E-05	6.6E-06	5.6E-06	5.0E-06	8.5E-06	1.0E-05
HAUL_N	75-34-3	1,1-Dichloroethane	2.75E-03	4.0E-08	6	1.2E-07	1.6E-07	2.4E-07	3.9E-07	8.2E-07	2.9E-06	3.5E-06	2.4E-06	1.8E-06	1.4E-06	1.2E-06	1.1E-06	9.8E-07	8.7E-07	7.6E-07	6.6E-07	3.5E-07	3.0E-07	2.7E-07	4.6E-07	5.5E-07
HAUL_N	75-35-4	1,1-Dichloroethene	1.69E-05	2.4E-10	6	7.3E-10	1.0E-09	1.5E-09	2.4E-09	5.0E-09	1.8E-08	2.2E-08	1.5E-08	1.1E-08	8.8E-09	7.5E-09	6.7E-09	6.0E-09	5.3E-09	4.6E-09	4.0E-09	2.2E-09	1.9E-09	1.7E-09	2.8E-09	3.4E-09
HAUL_N	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.38E-02	4.9E-07	6	1.5E-06	2.0E-06	2.9E-06	4.8E-06	1.0E-05	3.6E-05	4.3E-05	2.9E-05	2.2E-05	1.8E-05	1.5E-05	1.3E-05	1.2E-05	1.1E-05	9.3E-06	8.1E-06	4.3E-06	3.7E-06	3.3E-06	5.6E-06	6.8E-06
HAUL_N	79-34-5	1,1,2,2-Tetrachloroethane	3.70E-04	5.3E-09	6	1.6E-08	2.2E-08	3.2E-08	5.2E-08	1.1E-07	3.9E-07	4.7E-07	3.2E-07	2.4E-07	1.9E-07	1.6E-07	1.5E-07	1.3E-07	1.2E-07	1.0E-07	8.8E-08	4.7E-08	4.1E-08	3.6E-08	6.2E-08	7.4E-08
HAUL_N	87-61-6	1,2,3-Trichlorobenzene	5.11E-06	7.4E-11	6	2.2E-10	3.0E-10	4.4E-10	7.2E-10	1.5E-09	5.4E-09	6.5E-09	4.4E-09	3.3E-09	2.6E-09	2.3E-09	2.0E-09	1.8E-09	1.6E-09	1.4E-09	1.2E-09	6.6E-10	5.6E-10	5.0E-10	8.5E-10	1.0E-09
HAUL_N	91-17-8	DECAHYDRONAPHTHALENE	5.90E-02	8.5E-07	6	2.6E-06	3.5E-06	5.1E-06	8.3E-06	1.8E-05	6.3E-05	7.5E-05	5.1E-05	3.8E-05	3.1E-05	2.6E-05	2.3E-05	2.1E-05	1.9E-05	1.6E-05	1.4E-05	7.6E-06	6.5E-06	5.8E-06	9.8E-06	1.2E-05
HAUL_N	941-60-6	1,1,4-6-TETRAMETHYLINDANE	7.87E-03	1.1E-07	6	3.4E-07	4.6E-07	6.8E-07	1.1E-06	2.3E-06	8.4E-06	1.0E-05	6.8E-06	5.1E-06	4.1E-06	3.5E-06	3.1E-06	2.8E-06	2.5E-06	2.2E-06	1.9E-06	1.0E-06	8.6E-07	7.7E-07	1.3E-06	1.6E-06
HAUL_N	96-12-8	1,2-Dibromo-3-Chloropropane	2.32E-05	3.3E-10	6	1.0E-09	1.4E-09	2.0E-09	3.3E-09	6.9E-09	2.5E-08	3.0E-08	2.0E-08	1.5E-08	1.2E-08	1.0E-08	9.2E-09	8.2E-09	7.3E-09	6.4E-09	5.5E-09	3.0E-09	2.6E-09	2.3E-09	3.9E-09	4.6E-09
HAUL_N	98-06-6	tert-Butylbenzene	1.06E-05	1.5E-10	6	4.6E-10	6.2E-10	9.1E-10	1.5E-09	3.2E-09	1.1E-08	1.4E-08	9.2E-09	6.8E-09	5.5E-09	4.7E-09	4.2E-09	3.8E-09	3.3E-09	2.9E-09	2.5E-09	1.4E-09	1.2E-09	1.0E-09	1.8E-09	2.1E-09
HAUL_S	100-41-4	Ethylbenzene	1.15E-01	1.7E-06	5	1.9E-05	4.3E-05	1.1E-04	9.9E-05	6.3E-05	4.1E-05	2.9E-05	2.2E-05	1.8E-05	1.5E-05	1.3E-05	1.2E-05	1.1E-05	1.0E-05	9.6E-06	9.0E-06	6.6E-06	5.9E-06	5.7E-06	7.5E-06	8.6E-06
HAUL_S	100-42-5	Styrene	7.23E-02	1.0E-06	5	1.2E-05	2.7E-05	7.2E-05	6.2E-05	3.9E-05	2.6E-05	1.8E-05	1.4E-05	1.1E-05	9.6E-06	8.4E-06	7.6E-06	7.0E-06	6.4E-06	6.0E-06	5.7E-06	4.1E-06	3.7E-06	3.6E-06	4.7E-06	5.4E-06
HAUL_S	103-65-1	n-Propylbenzene	1.42E-02	2.0E-07	5	2.4E-06	5.3E-06	1.4E-05	1.2E-05	7.7E-06	5.1E-06	3.6E-06	2.8E-06	2.2E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.3E-06	1.2E-06	1.1E-06	8.1E-07	7.3E-07	7.0E-07	9.3E-07	1.1E-06
HAUL_S	104-51-8	n-Butylbenzene	2.56E-03	3.7E-08	5	4.3E-07	9.5E-07	2.5E-06	2.2E-06	1.4E-06	9.1E-07	6.5E-07	5.0E-07	4.0E-07	3.4E-07	3.0E-07	2.7E-07	2.5E-07	2.3E-07	2.1E-07	2.0E-07	1.5E-07	1.3E-07	1.3E-07	1.7E-07	1.9E-07
HAUL_S	108-67-8	1,3,5-Trimethylbenzene	7.95E-03	1.1E-07	5	1.3E-06	3.0E-06	7.9E-06	6.9E-06	4.3E-06	2.8E-06	2.0E-06	1.5E-06	1.2E-06	1.1E-06	9.3E-07	8.3E-07	7.7E-07	7.1E-07	6.6E-07	6.2E-07	4.6E-07	4.1E-07	3.9E-07	5.2E-07	5.9E-07
HAUL_S	108-88-3	Toluene	8.63E-03	1.2E-07	5	1.4E-06	3.2E-06	8.6E-06	7.4E-06	4.7E-06	3.1E-06	2.2E-06	1.7E-06	1.4E-06	1.1E-06	1.0E-06	9.1E-07	8.3E-07	7.7E-07	7.2E-07	6.8E-07	5.0E-07	4.4E-07	4.3E-07	5.6E-07	6.4E-07
HAUL_S	11096-82-5	Aroclor 1260	7.63E-04	1.1E-08	5	1.3E-07	2.8E-07	7.6E-07	6.6E-07	4.2E-07	2.7E-07	1.9E-07	1.5E-07	1.2E-07	1.0E-07	8.9E-08	8.0E-08	7.3E-08	6.8E-08	6.4E-08	6.0E-08	4.4E-08	3.9E-08	3.8E-08	5.0E-08	5.7E-08
HAUL_S	120-12-7	Anthracene	7.08E-03	1.0E-07	5	1.2E-06	2.6E-06	7.0E-06	6.1E-06	3.9E-06	2.5E-06	1.8E-06	1.4E-06	1.1E-06	9.4E-07	8.2E-07	7.4E-07	6.8E-07	6.3E-07	5.9E-07	5.5E-07	4.1E-07	3.6E-07	3.5E-07	4.6E-07	5.3E-07
HAUL_S	129-00-0	Pyrene	2.25E-03	3.2E-08	5	3.7E-07	8.3E-07	2.2E-06	1.9E-06	1.2E-06	8.0E-07	5.7E-07	4.4E-07	3.5E-07	3.0E-07	2.6E-07	2.4E-07	2.2E-07	2.0E-07	1.9E-07	1.8E-07	1.3E-07	1.2E-07	1.1E-07	1.5E-07	1.7E-07
HAUL_S	1330-20-7	XYLENES (TOTAL)	4.38E-02	6.3E-07	5	7.3E-06	1.6E-05	4.4E-05	3.8E-05	2.4E-05	1.6E-05	1.1E-05	8.5E-06	6.9E-06	5.8E-06	5.1E-06	4.6E-06	4.2E-06	3.9E-06	3.7E-06	3.4E-06	2.5E-06	2.2E-06	2.2E-06	2.9E-06	3.3E-06
HAUL_S	135-98-8	(1-METHYLPROPYL)BENZENE	6.28E-02	9.0E-07	5	1.0E-05	2.3E-05	6.3E-05	5.4E-05	3.4E-05	2.2E-05	1.6E-05	1.2E-05	9.8E-06	8.3E-06	7.3E-06	6.6E-06	6.0E-06	5.6E-06	5.2E-06	4.9E-06	3.6E-06	3.2E-06	3.1E-06	4.1E-06	4.7E-06
HAUL_S	179601-23-1	m,p-Xylenes	1.96E-02	2.8E-07	5	3.3E-06	7.3E-06	2.0E-05	1.7E-05	1.1E-05	7.0E-06	5.0E-06	3.8E-06	3.1E-06	2.6E-06	2.3E-06	2.1E-06	1.9E-06	1.8E-06	1.6E-06	1.5E-06	1.1E-06	1.0E-06	9.7E-07	1.3E-06	1.5E-06
HAUL_S	67-64-1	2-PROPANONE	1.68E-02	2.4E-07	5	2.8E-06	6.2E-06	1.7E-05	1.4E-05	9.1E-06	6.0E-06	4.3E-06	3.3E-06	2.6E-06	2.2E-06	2.0E-06	1.8E-06	1.6E-06	1.5E-06	1.4E-06	1.3E-06	9.6E-07	8.6E-07	8.3E-07	1.1E-06	1.2E-06
HAUL_S	71-43-2	Benzene	5.41E-03	7.8E-08	5	9.0E-07	2.0E-06	5.4E-06	4.7E-06	3.0E-06	1.9E-06	1.4E-06	1.1E-06	8.5E-07	7.2E-07	6.3E-07	5.7E-07	5.2E-07	4.8E-07	4.5E-07	4.2E-07	3.1E-07	2.8E-07	2.7E-07	3.5E-07	4.0E-07
HAUL_S	7421-93-4	Endrin aldehyde	1.79E-05	2.6E-10	5	3.0E-09	6.6E-09	1.8E-08	1.5E-08	9.7E-09	6.4E-09	4.5E-09	3.5E-09	2.8E-09	2.4E-09	2.1E-09	1.9E-09	1.7E-09	1.6E-09	1.5E-09	1.4E-09	1.0E-09	9.2E-10	8.9E-10	1.2E-09	1.3E-09
HAUL_S	7439-98-7	Molybdenum	1.60E-02	2.3E-07	5	2.7E-06	6.0E-06	1.6E-05	1.4E-05	8.7E-06	5.7E-06	4.1E-06	3.1E-06	2.5E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.3E-06	1.3E-06	9.2E-07	8.2E-07	8.0E-07	1.0E-06	1.2E-06
HAUL_S	75-09-2	Methylene Chloride	7.34E-03	1.1E-07	5	1.2E-06	2.7E-06	7.3E-06	6.3E-06	4.0E-06	2.6E-06	1.9E-06	1.4E-06	1.2E-06	9.7E-07	8.5E-07	7.7E-07	7.1E-07	6.5E-07	6.1E-07	5.8E-07	4.2E-07	3.8E-07	3.6E-07	4.8E-07	5.4E-07
HAUL_S	75-69-4	Trichlorofluoromethane	2.46E-03	3.5E-08	5	4.1E-07	9.1E-07	2.4E-06	2.1E-06	1.3E-06	8.8E-07	6.3E-07	4.8E-07	3.9E-07	3.3E-07	2.9E-07	2.6E-07	2.4E-07	2.2E-07	2.1E-07	1.9E-07	1.4E-07	1.3E-07	1.2E-07	1.6E-07	1.8E-07
HAUL_S	78-93-3	2-Butanone	4.76E-03	6.8E-08	5	7.9E-07	1.8E-06	4.7E-06	4.1E-06	2.6E-06	1.7E-06	1.2E-06	9.2E-07	7.5E-07	6.3E-07	5.5E-07	5.0E-07	4.6E-07	4.2E-07	4.0E-07	3.7E-07	2.7E-07	2.4E-07	2.4E-07	3.1E-07	3.5E-07
HAUL_S	83-32-9	Acenaphthene	1.83E-03	2.6E-08	5	3.1E-07	6.8E-07	1.8E-06	1.6E-06	1.0E-06	6.5E-07	4.7E-07	3.6E-07	2.9E-07	2.4E-07	2.1E-07	1.9E-07	1.8E-07	1.6E-07	1.5E-07	1.4E-07	1.1E-07	9.4E-08	9.1E-08	1.2E-07	1.4E-07
HAUL_S	85-01-8	Phenanthrene	6.89E-01	9.9E-06	5	1.2E-04	2.6E-04	6.9E-04	5.9E-04	3.8E-04	2.5E-04	1.8E-04	1.3E-04	1.1E-04	9.2E-05	8.0E-05	7.2E-05	6.6E-05	6.1E-05	5.8E-05	5.4E-05	4.0E-05	3.5E-05	3.4E-05	4.5E-05	5.1E-05
HAUL_S	86-73-7	Fluorene	1.11E-02	1.6E-07	5	1.9E-06	4.1E-06	1.1E-05	9.6E-06	6.1E-06	4.0E-06	2.8E-06	2.2E-06	1.7E-06	1.5E-06	1.3E-06	1.2E-06	1.1E-06	9.9E-07	9.3E-07	8.7E-07	6.4E-07	5.7E-07	5.5E-07	7.3E-07	8.2E-07
HAUL_S	91-20-3	Naphthalene	8.64E-02	1.2E-06	5	1.4E-05	3.2E-05	8.6E-05	7.4E-05	4.7E-05	3.1E-05	2.2E-05	1.7E-05	1.4E-05	1.1E-05	1.0E-05	9.1E-06	8.3E-06	7.7E-06	7.2E-06	6.8E-06	5.0E-06	4.4E-06	4.3E-06	5.7E-06	6.4E-06
HAUL_S	91-57-6	2-Methylnaphthalene	3.75E-02	5.4E-07	5	6.3E-06	1.4E-05	3.7E-05	3.2E-05	2.0E-05	1.3E-05	9.5E-06	7.3E-06	5.9E-06	5.0E-06	4.4E-06	3.9E-06	3.6E-06	3.3E-06	3.1E-06	2.9E-06	2.2E-06	1.9E-06	1.9E-06	2.5E-06	2.8E-06
HAUL_S	95-47-6	o-Xylene	9.40E-03	1.4E-07	5	1.6E-06	3.5E-06	9.4E-06	8.1E-06	5.1E-06	3.4E-06	2.4E-06	1.8E-06	1.5E-06	1.2E-06	1.1E-06	9.9E-07	9.0E-07	8.4E-07	7.8E-07	7.4E-07	5.4E-07	4.8E-07	4.7E-07	6.2E-07	7.0E-07
HAUL_S	95-50-1	1,2-Dichlorobenzene	1.38E-03	2.0E-08	5	2.3E-07	5.1E-07	1.4E-06	1.2E-06	7.5E-07	4.9E-07	3.5E-07	2.7E-07	2.2E-07	1.8E-07	1.6E-07	1.4E-07	1.3E-07	1.2E-07	1.2E-07	1.1E-07	7.9E-08	7.1E-08	6.8E-08	9.0E-08	1.0E-07
HAUL_S	95-63-6	1,2,4-Trimethylbenzene	2.42E-02	3.5E-07	5	4.0E-06	9.0E-06	2.4E-05	2.1E-05	1.3E-05	8.6E-06	6.2E-06	4.7E-06	3.8E-06	3.2E-06	2.8E-06	2.5E-06	2.3E-06	2.2E-06	2.0E-06	1.9E-06	1.4E-06	1.2E-06	1.2E-06	1.6E-06	1.8E-06
HAUL_S	98-82-8	1-METHYLETHYLBENZENE	7.02E-02	1.0E-06	5	1.2E-05	2.6E-05	7.0E-05	6.0E-05	3.8E-05	2.5E-05	1.8E-05	1.4E-05	1.1E-05	9.3E-06	8.2E-06	7.4E-06	6.8E-06	6.3E-06	5.9E-06	5.5E-06	4.0E-06	3.6E-06	3.5E-06	4.6E-06	5.2E-06
HAUL_S	10042-59-8	2-PROPYL-1-HEPTANOL	1.68E-01	2.4E-06	5	2.8E-05	6.2E-05	1.7E-04	1.4E-04	9.2E-05	6.0E-05	4.3E-05	3.3E-05	2.6E-05	2.2E-05	2.0E-05	1.8E-05	1.6E-05	1.5E-05	1.4E-05	1.3E-05	9.6E-06	8.6E-06	8.3E-06	1.1E-05	1.2E-05
HAUL_S	1031-07-8	Endosulfan sulfate	3.80E-05	5.5E-10	5	6.3E-09	1.4E-08	3.8E-08	3.3E-08	2.1E-08	1.4E-08	9.7E-09	7.4E-09	6.0E-09	5.0E-09	4.4E-09	4.0E-09	3.7E-09	3.4E-09	3.2E-09	3.0E-09	2.2E-09	2.0E-09	1.9E-09	2.5E-09	2.8E-09
HAUL_S	106-42-3	P-XYLENE	3.45E-03	5.0E-08	5	5.8E-07	1.3E-06	3.4E-06	3.0E-06	1.9E-06	1.2E-06	8.8E-07	6.7E-07	5.4E-07	4.6E-07	4.0E-07	3.6E-07	3.3E-07	3.1E-07	2.9E-07	2.7E-07	2.0E-07	1.8E-07	1.7E-07	2.3E-07	2.6E-07
HAUL_S	106-43-4	4-Chlorotoluene	1.06E-02	1.5E-07	5	1.8E-06	3.9E-06	1.1E-05	9.1E-06	5.8E-06	3.8E-06	2.7E-06	2.1E-06	1.7E-06	1.4E-06	1.2E-06	1.1E-06	1.0E-06	9.5E-07	8.9E-07	8.3E-07	6.1E-07	5.5E-07	5.3E-07	6.9E-07	7.9E-07
HAUL_S	106-46-7	1,4-Dichlorobenzene	2.03E-03	2.9E-08	5	3.4E-07	7.5E-07	2.0E-06	1.8E-06	1.1E-06	7.3E-07	5.2E-07	4.0E-07	3.2E-07	2.7E-07	2.4E-07	2.1E-07	2.0E-07	1.8E-07	1.7E-07	1.6E-07	1.2E-07	1.0E-07	1.0E-07	1.3E-07	1.5E-07
HAUL_S	106-93-4	1,2-Dibromoethane	5.40E-05	7.8E-10	5	9.0E-09	2.0E-08	5.4E-08	4.6E-08	2.9E-08	1.9E-08	1.4E-08	1.0E-08	8.5E-09	7.2E-09	6.3E-09	5.7E-09	5.2E-09	4.8E-09	4.5E-09	4.2E-09	3.1E-09	2.8E-09	2.7E-09	3.5E-09	4.0E-09
HAUL_S	107-06-2	1,2-Dichloroethane	8.85E-02	1.3E-06	5	1.5E-05	3.3E-05	8.8E-05	7.6E-05	4.8E-05	3.2E-05	2.3E-05	1.7E-05	1.4E-05	1.2E-05	1.0E-05	9.3E-06	8.5E-06	7.9E-06	7.4E-06	6.9E-06	5.1E-06	4.5E-06	4.4E-06	5.8E-06	6.6E-06
HAUL_S	108-38-3	M-XYLENE	2.39E-01	3.4E-06	5	4.0E-05	8.9E-05	2.4E-04	2.1E-04	1.3E-04	8.5E-05	6.1E-05	4.6E-05	3.7E-05	3.2E-05	2.8E-05	2.5E-05	2.3E-05	2.1E-05	2.0E-05	1.9E-05	1.4E-05	1.2E-05	1.2E-05	1.6E-05	1.8E-05
HAUL_S	108-90-7	Chlorobenzene	5.84E-02	8.4E-07	5	9.7E-06	2.2E-05	5.8E-05	5.0E-05	3.2E-05	2.1E-05	1.5E-05	1.1E-05	9.2E-06	7.8E-06	6.8E-06	6.1E-06	5.6E-06	5.2E-06	4.9E-06	4.6E-06	3.4E-06	3.0E-06	2.9E-06	3.8E-06	4.3E-06
HAUL_S	11097-69-1	Aroclor 1254	5.40E-02	7.8E-07	5	9.0E-06	2.0E-05	5.4E-05	4.6E-05	2.9E-05	1.9E-05	1.4E-05	1.0E-05	8.5E-06	7.2E-06	6.3E-06	5.7E-06	5.2E-06	4.8E-06	4.5E-06	4.2E-06	3.1E-06	2.8E-06	2.7E-06	3.5E-06	4.0E-06
HAUL_S	120-82-1	1,2,4-Trichlorobenzene	8.85E-06	1.3E-10	5	1.5E-09	3.3E-09	8.8E-09	7.6E-09	4.8E-09	3.2E-09	2.3E-09	1.7E-09	1.4E-09	1.2E-09	1.0E-09	9.3E-10	8.5E-10	7.9E-10	7.4E-10	6.9E-10	5.1E-10	4.5E-10	4.4E-10	5.8E-10	6.6E-10
HAUL_S	12672-29-6	Aroclor 1248	4.60E-02	6.6E-07	5	7.7E-06	1.7E-05	4.6E-05	4.0E-05	2.5E-05	1.6E-05	1.2E-05	8.9E-06	7.2E-06	6.1E-06	5.4E-06	4.8E-06	4.4E-06	4.1E-06	3.8E-06	3.6E-06	2.6E-06	2.4E-06	2.3E-06	3.0E-06	3.4E-06
HAUL_S	12674-11-2	Aroclor 1016	1.42E-02	2.0E-07	5	2.4E-06	5.3E-06	1.4E-05	1.2E-05	7.7E-06	5.0E-06	3.6E-06	2.7E-06	2.2E-06	1.9E-06	1.6E-06	1.5E-06	1.4E-06	1.3E-06	1.2E-06	1.1E-06	8.1E-07	7.3E-07	7.0E-07	9.3E-07	1.1E-06
HAUL_S	127-18-4	Tetrachloroethene	6.90E-05	9.9E-10	5	1.2E-08	2.6E-08	6.9E-08	5.9E-08	3.8E-08	2.5E-08	1.8E-08	1.3E-08	1.1E-08	9.2E-09	8.0E-09	7.2E-09	6.6E-09	6.2E-09	5.8E-09	5.4E-09	4.0E-09	3.5E-09	3.4E-09	4.5E-09	5.1E-09
HAUL_S	132-64-9	Dibenzofuran	4.78E-03	6.9E-08	5	8.0E-07	1.8E-06	4.8E-06	4.1E-06	2.6E-06	1.7E-06	1.2E-06	9.3E-07	7.5E-07	6.3E-07	5.6E-07	5.0E-07	4.6E-07	4.3E-07	4.0E-07	3.7E-07	2.7E-07	2.5E-07	2.4E-07	3.1E-07	3.5E-07
HAUL_S	1653-40-3	6-METHYL-1,1-HEPTANOL	2.65E-01	3.8E-06	5	4.4E-05	9.8E-05	2.6E-04	2.3E-04	1.4E-04	9.5E-05	6.8E-05	5.2E-05	4.2E-05	3.5E-05	3.1E-05	2.8E-05	2.6E-05	2.4E-05	2.2E-05	2.1E-05	1.5E-05	1.4E-05	1.3E-05	1.7E-05	2.0E-05
HAUL_S	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	2.92E-02	4.2E-07	5	4.9E-06	1.1E-05	2.9E-05	2.5E-05	1.6E-05	1.0E-05	7.4E-06	5.7E-06	4.6E-06	3.9E-06	3.4E-06	3.1E-06	2.8E-06	2.6E-06	2.4E-06	2.3E-06	1.7E-06	1.5E-06	1.4E-06	1.9E-06	2.2E-06

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_S	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	7.34E-02	1.1E-06	5	1.2E-05	2.7E-05	7.3E-05	6.3E-05	4.0E-05	2.6E-05	1.9E-05	1.4E-05	1.2E-05	9.7E-06	8.5E-06	7.7E-06	7.1E-06	6.5E-06	6.1E-06	5.8E-06	4.2E-06	3.8E-06	3.6E-06	4.8E-06	5.4E-06
HAUL_S	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	3.63E-02	5.2E-07	5	6.1E-06	1.3E-05	3.6E-05	3.1E-05	2.0E-05	1.3E-05	9.2E-06	7.0E-06	5.7E-06	4.8E-06	4.2E-06	3.8E-06	3.5E-06	3.2E-06	3.0E-06	2.8E-06	2.1E-06	1.9E-06	1.8E-06	2.4E-06	2.7E-06
HAUL_S	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.01E-02	4.3E-07	5	5.0E-06	1.1E-05	3.0E-05	2.6E-05	1.6E-05	1.1E-05	7.7E-06	5.8E-06	4.7E-06	4.0E-06	3.5E-06	3.2E-06	2.9E-06	2.7E-06	2.5E-06	2.4E-06	1.7E-06	1.5E-06	1.5E-06	2.0E-06	2.2E-06
HAUL_S	26952-21-6	ISOOCTANOL	9.73E-02	1.4E-06	5	1.6E-05	3.6E-05	9.7E-05	8.4E-05	5.3E-05	3.5E-05	2.5E-05	1.9E-05	1.5E-05	1.3E-05	1.1E-05	1.0E-05	9.4E-06	8.7E-06	8.1E-06	7.6E-06	5.6E-06	5.0E-06	4.8E-06	6.4E-06	7.2E-06
HAUL_S	2719-52-0	(1-METHYLBUTYL)BENZENE	5.40E-02	7.8E-07	5	9.0E-06	2.0E-05	5.4E-05	4.6E-05	2.9E-05	1.9E-05	1.4E-05	1.0E-05	8.5E-06	7.2E-06	6.3E-06	5.7E-06	5.2E-06	4.8E-06	4.5E-06	4.2E-06	3.1E-06	2.8E-06	2.7E-06	3.5E-06	4.0E-06
HAUL_S	2883-05-8	2-CYCLOHEXYLDECANE	7.17E-02	1.0E-06	5	1.2E-05	2.7E-05	7.1E-05	6.2E-05	3.9E-05	2.6E-05	1.8E-05	1.4E-05	1.1E-05	9.5E-06	8.3E-06	7.5E-06	6.9E-06	6.4E-06	6.0E-06	5.6E-06	4.1E-06	3.7E-06	3.6E-06	4.7E-06	5.3E-06
HAUL_S	33213-65-9	Endosulfan II	9.73E-05	1.4E-09	5	1.6E-08	3.6E-08	9.7E-08	8.4E-08	5.3E-08	3.5E-08	2.5E-08	1.9E-08	1.5E-08	1.3E-08	1.1E-08	1.0E-08	9.4E-09	8.7E-09	8.1E-09	7.6E-09	5.6E-09	5.0E-09	4.8E-09	6.4E-09	7.2E-09
HAUL_S	3875-51-2	1-METHYLETHYLCYCLOPENTANE	3.72E-02	5.3E-07	5	6.2E-06	1.4E-05	3.7E-05	3.2E-05	2.0E-05	1.3E-05	9.5E-06	7.2E-06	5.8E-06	4.9E-06	4.3E-06	3.9E-06	3.6E-06	3.3E-06	3.1E-06	2.9E-06	2.1E-06	1.9E-06	1.8E-06	2.4E-06	2.8E-06
HAUL_S	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.39E-02	3.4E-07	5	4.0E-06	8.9E-06	2.4E-05	2.1E-05	1.3E-05	8.5E-06	6.1E-06	4.6E-06	3.7E-06	3.2E-06	2.8E-06	2.5E-06	2.3E-06	2.1E-06	2.0E-06	1.9E-06	1.4E-06	1.2E-06	1.2E-06	1.6E-06	1.8E-06
HAUL_S	496-10-6	OCTAHYDROINDENE	2.74E-01	3.9E-06	5	4.6E-05	1.0E-04	2.7E-04	2.4E-04	1.5E-04	9.8E-05	7.0E-05	5.3E-05	4.3E-05	3.6E-05	3.2E-05	2.9E-05	2.6E-05	2.4E-05	2.3E-05	2.1E-05	1.6E-05	1.4E-05	1.4E-05	1.8E-05	2.0E-05
HAUL_S	5103-74-2	GAMMA-CHLORDANE	1.50E-04	2.2E-09	5	2.5E-08	5.6E-08	1.5E-07	1.3E-07	8.2E-08	5.4E-08	3.8E-08	2.9E-08	2.4E-08	2.0E-08	1.7E-08	1.6E-08	1.4E-08	1.3E-08	1.3E-08	1.2E-08	8.6E-09	7.7E-09	7.5E-09	9.8E-09	1.1E-08
HAUL_S	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	6.63E-02	9.5E-07	5	1.1E-05	2.5E-05	6.6E-05	5.7E-05	3.6E-05	2.4E-05	1.7E-05	1.3E-05	1.0E-05	8.8E-06	7.7E-06	7.0E-06	6.4E-06	5.9E-06	5.5E-06	5.2E-06	3.8E-06	3.4E-06	3.3E-06	4.3E-06	4.9E-06
HAUL_S	53469-21-9	Aroclor 1242	3.72E-02	5.3E-07	5	6.2E-06	1.4E-05	3.7E-05	3.2E-05	2.0E-05	1.3E-05	9.5E-06	7.2E-06	5.8E-06	4.9E-06	4.3E-06	3.9E-06	3.6E-06	3.3E-06	3.1E-06	2.9E-06	2.1E-06	1.9E-06	1.8E-06	2.4E-06	2.8E-06
HAUL_S	53494-70-5	Endrin ketone	2.65E-05	3.8E-10	5	4.4E-09	9.8E-09	2.6E-08	2.3E-08	1.4E-08	9.5E-09	6.8E-09	5.2E-09	4.2E-09	3.5E-09	3.1E-09	2.8E-09	2.6E-09	2.4E-09	2.2E-09	2.1E-09	1.5E-09	1.4E-09	1.3E-09	1.7E-09	2.0E-09
HAUL_S	5364-83-0	(1-PROPENYL)CYCLOHEXANE	3.54E-01	5.1E-06	5	5.9E-05	1.3E-04	3.5E-04	3.0E-04	1.9E-04	1.3E-04	9.0E-05	6.9E-05	5.5E-05	4.7E-05	4.1E-05	3.7E-05	3.4E-05	3.2E-05	3.0E-05	2.8E-05	2.0E-05	1.8E-05	1.8E-05	2.3E-05	2.6E-05
HAUL_S	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.59E-02	2.3E-07	5	2.7E-06	5.9E-06	1.6E-05	1.4E-05	8.7E-06	5.7E-06	4.1E-06	3.1E-06	2.5E-06	2.1E-06	1.9E-06	1.7E-06	1.5E-06	1.4E-06	1.3E-06	1.2E-06	9.1E-07	8.2E-07	7.9E-07	1.0E-06	1.2E-06
HAUL_S	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	6.81E-02	9.8E-07	5	1.1E-05	2.5E-05	6.8E-05	5.9E-05	3.7E-05	2.4E-05	1.7E-05	1.3E-05	1.1E-05	9.0E-06	7.9E-06	7.1E-06	6.6E-06	6.1E-06	5.7E-06	5.3E-06	3.9E-06	3.5E-06	3.4E-06	4.5E-06	5.1E-06
HAUL_S	591-78-6	2-Hexanone	3.01E-05	4.3E-10	5	5.0E-09	1.1E-08	3.0E-08	2.6E-08	1.6E-08	1.1E-08	7.7E-09	5.8E-09	4.7E-09	4.0E-09	3.5E-09	3.2E-09	2.9E-09	2.7E-09	2.5E-09	2.4E-09	1.7E-09	1.5E-09	1.5E-09	2.0E-09	2.2E-09
HAUL_S	65-85-0	Benzoic acid	1.42E-03	2.0E-08	5	2.4E-07	5.3E-07	1.4E-06	1.2E-06	7.7E-07	5.0E-07	3.6E-07	2.7E-07	2.2E-07	1.9E-07	1.6E-07	1.5E-07	1.4E-07	1.3E-07	1.2E-07	1.1E-07	8.1E-08	7.3E-08	7.0E-08	9.3E-08	1.1E-07
HAUL_S	67-66-3	Chloroform	2.21E-01	3.2E-06	5	3.7E-05	8.2E-05	2.2E-04	1.9E-04	1.2E-04	7.9E-05	5.6E-05	4.3E-05	3.5E-05	2.9E-05	2.6E-05	2.3E-05	2.1E-05	2.0E-05	1.8E-05	1.7E-05	1.3E-05	1.1E-05	1.1E-05	1.4E-05	1.6E-05
HAUL_S	71-55-6	1,1,1-Trichloroethane	1.15E-01	1.7E-06	5	1.9E-05	4.3E-05	1.1E-04	9.9E-05	6.3E-05	4.1E-05	2.9E-05	2.2E-05	1.8E-05	1.5E-05	1.3E-05	1.2E-05	1.1E-05	1.0E-05	9.6E-06	9.0E-06	6.6E-06	5.9E-06	5.7E-06	7.5E-06	8.5E-06
HAUL_S	75-34-3	1,1-Dichloroethane	6.19E-03	8.9E-08	5	1.0E-06	2.3E-06	6.2E-06	5.3E-06	3.4E-06	2.2E-06	1.6E-06	1.2E-06	9.7E-07	8.2E-07	7.2E-07	6.5E-07	6.0E-07	5.5E-07	5.2E-07	4.9E-07	3.6E-07	3.2E-07	3.1E-07	4.1E-07	4.6E-07
HAUL_S	75-35-4	1,1-Dichloroethene	3.80E-05	5.5E-10	5	6.3E-09	1.4E-08	3.8E-08	3.3E-08	2.1E-08	1.4E-08	9.7E-09	7.4E-09	6.0E-09	5.0E-09	4.4E-09	4.0E-09	3.7E-09	3.4E-09	3.2E-09	3.0E-09	2.2E-09	2.0E-09	1.9E-09	2.5E-09	2.8E-09
HAUL_S	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	7.61E-02	1.1E-06	5	1.3E-05	2.8E-05	7.6E-05	6.6E-05	4.1E-05	2.7E-05	1.9E-05	1.5E-05	1.2E-05	1.0E-05	8.9E-06	8.0E-06	7.3E-06	6.8E-06	6.3E-06	6.0E-06	4.4E-06	3.9E-06	3.8E-06	5.0E-06	5.6E-06
HAUL_S	79-34-5	1,1,2,2-Tetrachloroethane	8.32E-04	1.2E-08	5	1.4E-07	3.1E-07	8.3E-07	7.2E-07	4.5E-07	3.0E-07	2.1E-07	1.6E-07	1.3E-07	1.1E-07	9.7E-08	8.7E-08	8.0E-08	7.4E-08	6.9E-08	6.5E-08	4.8E-08	4.3E-08	4.1E-08	5.4E-08	6.2E-08
HAUL_S	87-61-6	1,2,3-Trichlorobenzene	1.15E-05	1.7E-10	5	1.9E-09	4.3E-09	1.1E-08	9.9E-09	6.3E-09	4.1E-09	2.9E-09	2.2E-09	1.8E-09	1.5E-09	1.3E-09	1.2E-09	1.1E-09	1.0E-09	9.6E-10	9.0E-10	6.6E-10	5.9E-10	5.7E-10	7.5E-10	8.5E-10
HAUL_S	91-17-8	DECAHYDRONAPHTHALENE	1.33E-01	1.9E-06	5	2.2E-05	4.9E-05	1.3E-04	1.1E-04	7.2E-05	4.7E-05	3.4E-05	2.6E-05	2.1E-05	1.8E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	1.1E-05	1.0E-05	7.6E-06	6.8E-06	6.6E-06	8.7E-06	9.8E-06
HAUL_S	941-60-6	1,1,4-6-TETRAMETHYLINDANE	1.77E-02	2.5E-07	5	3.0E-06	6.6E-06	1.8E-05	1.5E-05	9.6E-06	6.3E-06	4.5E-06	3.4E-06	2.8E-06	2.3E-06	2.1E-06	1.9E-06	1.7E-06	1.6E-06	1.5E-06	1.4E-06	1.0E-06	9.1E-07	8.8E-07	1.2E-06	1.3E-06
HAUL_S	96-12-8	1,2-Dibromo-3-Chloropropane	5.22E-05	7.5E-10	5	8.7E-09	1.9E-08	5.2E-08	4.5E-08	2.8E-08	1.9E-08	1.3E-08	1.0E-08	8.2E-09	6.9E-09	6.1E-09	5.5E-09	5.0E-09	4.7E-09	4.4E-09	4.1E-09	3.0E-09	2.7E-09	2.6E-09	3.4E-09	3.9E-09
HAUL_S	98-06-6	tert-Butylbenzene	2.39E-05	3.4E-10	5	4.0E-09	8.9E-09	2.4E-08	2.1E-08	1.3E-08	8.5E-09	6.1E-09	4.6E-09	3.7E-09	3.2E-09	2.8E-09	2.5E-09	2.3E-09	2.1E-09	2.0E-09	1.9E-09	1.4E-09	1.2E-09	1.2E-09	1.6E-09	1.8E-09
STKP_L_N	100-41-4	Ethylbenzene	1.36E-04	2.0E-09	4	7.2E-09	8.6E-09	1.0E-08	1.3E-08	1.7E-08	2.5E-08	3.6E-08	4.9E-08	6.2E-08	7.1E-08	7.4E-08	6.9E-08	6.0E-08	4.9E-08	4.0E-08	3.3E-08	1.5E-08	1.3E-08	1.1E-08	2.4E-08	3.2E-08
STKP_L_N	100-42-5	Styrene	8.52E-05	1.2E-09	4	4.5E-09	5.4E-09	6.4E-09	7.9E-09	1.1E-08	1.6E-08	2.3E-08	3.1E-08	3.9E-08	4.5E-08	4.6E-08	4.3E-08	3.8E-08	3.1E-08	2.5E-08	2.0E-08	9.5E-09	8.4E-09	7.0E-09	1.5E-08	2.0E-08
STKP_L_N	103-65-1	n-Propylbenzene	1.67E-05	2.4E-10	4	8.9E-10	1.1E-09	1.3E-09	1.5E-09	2.1E-09	3.1E-09	4.4E-09	6.1E-09	7.7E-09	8.8E-09	9.1E-09	8.5E-09	7.4E-09	6.1E-09	4.9E-09	4.0E-09	1.9E-09	1.6E-09	1.4E-09	3.0E-09	3.9E-09
STKP_L_N	104-51-8	n-Butylbenzene	3.01E-06	4.3E-11	4	1.6E-10	1.9E-10	2.3E-10	2.8E-10	3.8E-10	5.5E-10	8.0E-10	1.1E-09	1.4E-09	1.6E-09	1.6E-09	1.5E-09	1.3E-09	1.1E-09	8.9E-10	7.2E-10	3.4E-10	3.0E-10	2.5E-10	5.3E-10	7.1E-10
STKP_L_N	108-67-8	1,3,5-Trimethylbenzene	9.37E-06	1.3E-10	4	5.0E-10	6.0E-10	7.0E-10	8.6E-10	1.2E-09	1.7E-09	2.5E-09	3.4E-09	4.3E-09	4.9E-09	5.1E-09	4.8E-09	4.1E-09	3.4E-09	2.8E-09	2.2E-09	1.0E-09	9.2E-10	7.7E-10	1.7E-09	2.2E-09
STKP_L_N	108-88-3	Toluene	1.02E-05	1.5E-10	4	5.4E-10	6.5E-10	7.6E-10	9.4E-10	1.3E-09	1.9E-09	2.7E-09	3.7E-09	4.7E-09	5.4E-09	5.5E-09	5.2E-09	4.5E-09	3.7E-09	3.0E-09	2.4E-09	1.1E-09	1.0E-09	8.4E-10	1.8E-09	2.4E-09
STKP_L_N	11096-82-5	Aroclor 1260	8.98E-07	1.3E-11	4	4.8E-11	5.7E-11	6.7E-11	8.3E-11	1.1E-10	1.6E-10	2.4E-10	3.3E-10	4.1E-10	4.7E-10	4.9E-10	4.6E-10	4.0E-10	3.3E-10	2.6E-10	2.2E-10	1.0E-10	8.9E-11	7.4E-11	1.6E-10	2.1E-10
STKP_L_N	120-12-7	Anthracene	8.34E-06	1.2E-10	4	4.4E-10	5.3E-10	6.2E-10	7.7E-10	1.0E-09	1.5E-09	2.2E-09	3.0E-09	3.8E-09	4.4E-09	4.5E-09	4.3E-09	3.7E-09	3.0E-09	2.5E-09	2.0E-09	9.3E-10	8.2E-10	6.9E-10	1.5E-09	2.0E-09
STKP_L_N	129-00-0	Pyrene	2.65E-06	3.8E-11	4	1.4E-10	1.7E-10	2.0E-10	2.4E-10	3.3E-10	4.8E-10	7.0E-10	9.6E-10	1.2E-09	1.4E-09	1.4E-09	1.4E-09	1.2E-09	9.6E-10	7.8E-10	6.4E-10	2.9E-10	2.6E-10	2.2E-10	4.7E-10	6.2E-10
STKP_L_N	1330-20-7	XYLENES (TOTAL)	5.16E-05	7.4E-10	4	2.7E-09	3.3E-09	3.9E-09	4.8E-09	6.5E-09	9.4E-09	1.4E-08	1.9E-08	2.4E-08	2.7E-08	2.8E-08	2.6E-08	2.3E-08	1.9E-08	1.5E-08	1.2E-08	5.7E-09	5.1E-09	4.3E-09	9.1E-09	1.2E-08
STKP_L_N	135-98-8	(1-METHYLPROPYL)BENZENE	7.40E-05	1.1E-09	4	3.9E-09	4.7E-09	5.5E-09	6.8E-09	9.3E-09	1.4E-08	2.0E-08	2.7E-08	3.4E-08	3.9E-08	4.0E-08	3.8E-08	3.3E-08	2.7E-08	2.2E-08	1.8E-08	8.2E-09	7.3E-09	6.1E-09	1.3E-08	1.7E-08
STKP_L_N	179601-23-1	m,p-Xylenes	2.31E-05	3.3E-10	4	1.2E-09	1.5E-09	1.7E-09	2.1E-09	2.9E-09	4.2E-09	6.2E-09	8.4E-09	1.1E-08	1.2E-08	1.3E-08	1.2E-08	1.0E-08	8.4E-09	6.8E-09	5.6E-09	2.6E-09	2.3E-09	1.9E-09	4.1E-09	5.4E-09
STKP_L_N	67-64-1	2-PROPANONE	1.98E-05	2.8E-10	4	1.1E-09	1.3E-09	1.5E-09	1.8E-09	2.5E-09	3.6E-09	5.3E-09	7.2E-09	9.1E-09	1.0E-08	1.1E-08	1.0E-08	8.8E-09	7.2E-09	5.8E-09	4.7E-09	2.2E-09	2.0E-09	1.6E-09	3.5E-09	4.6E-09
STKP_L_N	71-43-2	Benzene	6.38E-06	9.2E-11	4	3.4E-10	4.1E-10	4.8E-10	5.9E-10	8.0E-10	1.2E-09	1.7E-09	2.3E-09	2.9E-09	3.4E-09	3.5E-09	3.3E-09	2.8E-09	2.3E-09	1.9E-09	1.5E-09	7.1E-10	6.3E-10	5.3E-10	1.1E-09	1.5E-09
STKP_L_N	7421-93-4	Endrin aldehyde	2.10E-08	3.0E-13	4	1.1E-12	1.3E-12	1.6E-12	1.9E-12	2.6E-12	3.8E-12	5.6E-12	7.6E-12	9.7E-12	1.1E-11	1.1E-11	1.1E-11	9.3E-12	7.7E-12	6.2E-12	5.1E-12	2.3E-12	2.1E-12	1.7E-12	3.7E-12	4.9E-12
STKP_L_N	7439-98-7	Molybdenum	1.89E-05	2.7E-10	4	1.0E-09	1.2E-09	1.4E-09	1.7E-09	2.4E-09	3.5E-09	5.0E-09	6.8E-09	8.7E-09	9.9E-09	1.0E-08	9.6E-09	8.4E-09	6.9E-09	5.6E-09	4.5E-09	2.1E-09	1.9E-09	1.6E-09	3.3E-09	4.4E-09
STKP_L_N	75-09-2	Methylene Chloride	8.65E-06	1.2E-10	4	4.6E-10	5.5E-10	6.5E-10	8.0E-10	1.1E-09	1.6E-09	2.3E-09	3.1E-09	4.0E-09	4.6E-09	4.7E-09	4.4E-09	3.8E-09	3.1E-09	2.5E-09	2.1E-09	9.6E-10	8.5E-10	7.2E-10	1.5E-09	2.0E-09
STKP_L_N	75-69-4	Trichlorofluoromethane	2.90E-06	4.2E-11	4	1.5E-10	1.8E-10	2.2E-10	2.7E-10	3.6E-10	5.3E-10	7.7E-10	1.0E-09	1.3E-09	1.5E-09	1.6E-09	1.5E-09	1.3E-09	1.1E-09	8.5E-10	7.0E-10	3.2E-10	2.9E-10	2.4E-10	5.1E-10	6.8E-10
STKP_L_N	78-93-3	2-Butanone	5.61E-06	8.1E-11	4	3.0E-10	3.6E-10	4.2E-10	5.2E-10	7.0E-10	1.0E-09	1.5E-09	2.0E-09	2.6E-09	3.0E-09	3.0E-09	2.9E-09	2.5E-09	2.0E-09	1.7E-09	1.3E-09	6.2E-10	5.5E-10	4.6E-10	9.9E-10	1.3E-09
STKP_L_N	83-32-9	Acenaphthene	2.16E-06	3.1E-11	4	1.1E-10	1.4E-10	1.6E-10	2.0E-10	2.7E-10	3.9E-10	5.7E-10	7.8E-10	9.9E-10	1.1E-09	1.2E-09	1.1E-09	9.6E-10	7.8E-10	6.4E-10	5.2E-10	2.4E-10	2.1E-10	1.8E-10	3.8E-10	5.1E-10
STKP_L_N	85-01-8	Phenanthrene	8.12E-04	1.2E-08	4	4.3E-08	5.2E-08	6.1E-08	7.5E-08	1.0E-07	1.5E-07	2.2E-07	2.9E-07	3.7E-07	4.3E-07	4.4E-07	4.1E-07	3.6E-07	3.0E-07	2.4E-07	2.0E-07	9.0E-08	8.0E-08	6.7E-08	1.4E-07	1.9E-07
STKP_L_N	86-73-7	Fluorene	1.31E-05	1.9E-10	4	7.0E-10	8.3E-10	9.8E-10	1.2E-09	1.6E-09	2.4E-09	3.5E-09	4.7E-09	6.0E-09	6.9E-09	7.1E-09	6.7E-09	5.8E-09	4.8E-09	3.9E-09	3.1E-09	1.5E-09	1.3E-09	1.1E-09	2.3E-09	3.1E-09
STKP_L_N	91-20-3	Naphthalene	1.02E-04	1.5E-09	4	5.4E-09	6.5E-09	7.6E-09	9.4E-09	1.3E-08	1.9E-08	2.7E-08	3.7E-08	4.7E-08	5.4E-08	5.5E-08	5.2E-08	4.5E-08	3.7E-08	3.0E-08	2.4E-08	1.1E-08	1.0E-08	8.4E-09	1.8E-08	2.4E-08
STKP_L_N	91-57-6	2-Methylnaphthalene	4.41E-05	6.3E-10	4	2.3E-09	2.8E-09	3.3E-09	4.1E-09	5.5E-09	8.1E-09	1.2E-08	1.6E-08	2.0E-08	2.3E-08	2.4E-08	2.3E-08	2.0E-08	1.6E-08	1.3E-08	1.1E-08	4.9E-09	4.4E-09	3.6E-09	7.8E-09	1.0E-08
STKP_L_N	95-47-6	o-Xylene	1.11E-05	1.6E-10	4	5.9E-10	7.0E-10	8.3E-10	1.0E-09	1.4E-09	2.0E-09	2.9E-09	4.0E-09	5.1E-09	5.8E-09	6.0E-09	5.7E-09	4.9E-09	4.0E-09	3.3E-09	2.7E-09	1.2E-09	1.1E-09	9.2E-10	2.0E-09	2.6E-09
STKP_L_N	95-50-1	1,2-Dichlorobenzene	1.63E-06	2.3E-11	4	8.6E-11	1.0E-10	1.2E-10	1.5E-10	2.0E-10	3.0E-10	4.3E-10	5.9E-10	7.5E-10	8.6E-10	8.8E-10	8.3E-10	7.2E-10	5.9E-10	4.8E-10	3.9E-10	1.8E-10	1.6E-10	1.3E-10	2.9E-10	3.8E-10

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_N	95-63-6	1,2,4-Trimethylbenzene	2.85E-05	4.1E-10	4	1.5E-09	1.8E-09	2.1E-09	2.6E-09	3.6E-09	5.2E-09	7.6E-09	1.0E-08	1.3E-08	1.5E-08	1.5E-08	1.5E-08	1.3E-08	1.0E-08	8.4E-09	6.8E-09	3.2E-09	2.8E-09	2.4E-09	5.0E-09	6.7E-09
STKP_L_N	98-82-8	1-METHYLETHYLBENZENE	8.27E-05	1.2E-09	4	4.4E-09	5.3E-09	6.2E-09	7.6E-09	1.0E-08	1.5E-08	2.2E-08	3.0E-08	3.8E-08	4.4E-08	4.5E-08	4.2E-08	3.7E-08	3.0E-08	2.4E-08	2.0E-08	9.2E-09	8.2E-09	6.8E-09	1.5E-08	1.9E-08
STKP_L_N	10042-59-8	2-PROPYL-1-HEPTANOL	1.98E-04	2.8E-09	4	1.1E-08	1.3E-08	1.5E-08	1.8E-08	2.5E-08	3.6E-08	5.3E-08	7.2E-08	9.1E-08	1.0E-07	1.1E-07	1.0E-07	8.8E-08	7.2E-08	5.8E-08	4.8E-08	2.2E-08	2.0E-08	1.6E-08	3.5E-08	4.6E-08
STKP_L_N	1031-07-8	Endosulfan sulfate	4.48E-08	6.4E-13	4	2.4E-12	2.8E-12	3.4E-12	4.1E-12	5.6E-12	8.2E-12	1.2E-11	1.6E-11	2.1E-11	2.4E-11	2.4E-11	2.3E-11	2.0E-11	1.6E-11	1.3E-11	1.1E-11	5.0E-12	4.4E-12	3.7E-12	7.9E-12	1.1E-11
STKP_L_N	106-42-3	P-XYLENE	4.06E-06	5.8E-11	4	2.2E-10	2.6E-10	3.0E-10	3.8E-10	5.1E-10	7.4E-10	1.1E-09	1.5E-09	1.9E-09	2.1E-09	2.2E-09	2.1E-09	1.8E-09	1.5E-09	1.2E-09	9.8E-10	4.5E-10	4.0E-10	3.4E-10	7.2E-10	9.5E-10
STKP_L_N	106-43-4	4-Chlorotoluene	1.25E-05	1.8E-10	4	6.7E-10	7.9E-10	9.4E-10	1.2E-09	1.6E-09	2.3E-09	3.3E-09	4.5E-09	5.7E-09	6.6E-09	6.8E-09	6.4E-09	5.5E-09	4.5E-09	3.7E-09	3.0E-09	1.4E-09	1.2E-09	1.0E-09	2.2E-09	2.9E-09
STKP_L_N	106-46-7	1,4-Dichlorobenzene	2.40E-06	3.4E-11	4	1.3E-10	1.5E-10	1.8E-10	2.2E-10	3.0E-10	4.4E-10	6.4E-10	8.7E-10	1.1E-09	1.3E-09	1.3E-09	1.2E-09	1.1E-09	8.7E-10	7.1E-10	5.8E-10	2.7E-10	2.4E-10	2.0E-10	4.2E-10	5.6E-10
STKP_L_N	106-93-4	1,2-Dibromoethane	6.36E-08	9.1E-13	4	3.4E-12	4.0E-12	4.8E-12	5.9E-12	8.0E-12	1.2E-11	1.7E-11	2.3E-11	2.9E-11	3.3E-11	3.4E-11	3.2E-11	2.8E-11	2.3E-11	1.9E-11	1.5E-11	7.1E-12	6.3E-12	5.3E-12	1.1E-11	1.5E-11
STKP_L_N	107-06-2	1,2-Dichloroethane	1.04E-04	1.5E-09	4	5.5E-09	6.6E-09	7.8E-09	9.6E-09	1.3E-08	1.9E-08	2.8E-08	3.8E-08	4.8E-08	5.5E-08	5.6E-08	5.3E-08	4.6E-08	3.8E-08	3.1E-08	2.5E-08	1.2E-08	1.0E-08	8.6E-09	1.8E-08	2.4E-08
STKP_L_N	108-38-3	M-XYLENE	2.81E-04	4.0E-09	4	1.5E-08	1.8E-08	2.1E-08	2.6E-08	3.5E-08	5.1E-08	7.5E-08	1.0E-07	1.3E-07	1.5E-07	1.5E-07	1.4E-07	1.2E-07	1.0E-07	8.3E-08	6.8E-08	3.1E-08	2.8E-08	2.3E-08	5.0E-08	6.6E-08
STKP_L_N	108-90-7	Chlorobenzene	6.88E-05	9.9E-10	4	3.7E-09	4.4E-09	5.2E-09	6.3E-09	8.6E-09	1.3E-08	1.8E-08	2.5E-08	3.2E-08	3.6E-08	3.7E-08	3.5E-08	3.0E-08	2.5E-08	2.0E-08	1.7E-08	7.7E-09	6.8E-09	5.7E-09	1.2E-08	1.6E-08
STKP_L_N	11097-69-1	Aroclor 1254	6.36E-05	9.1E-10	4	3.4E-09	4.0E-09	4.8E-09	5.9E-09	8.0E-09	1.2E-08	1.7E-08	2.3E-08	2.9E-08	3.3E-08	3.4E-08	3.2E-08	2.8E-08	2.3E-08	1.9E-08	1.5E-08	7.1E-09	6.3E-09	5.3E-09	1.1E-08	1.5E-08
STKP_L_N	120-82-1	1,2,4-Trichlorobenzene	1.04E-08	1.5E-13	4	5.5E-13	6.6E-13	7.8E-13	9.6E-13	1.3E-12	1.9E-12	2.8E-12	3.8E-12	4.8E-12	5.5E-12	5.6E-12	5.3E-12	4.6E-12	3.8E-12	3.1E-12	2.5E-12	1.2E-12	1.0E-12	8.6E-13	1.8E-12	2.4E-12
STKP_L_N	12672-29-6	Aroclor 1248	5.42E-05	7.8E-10	4	2.9E-09	3.4E-09	4.1E-09	5.0E-09	6.8E-09	9.9E-09	1.4E-08	2.0E-08	2.5E-08	2.9E-08	2.9E-08	2.8E-08	2.4E-08	2.0E-08	1.6E-08	1.3E-08	6.0E-09	5.3E-09	4.5E-09	9.6E-09	1.3E-08
STKP_L_N	12674-11-2	Aroclor 1016	1.67E-05	2.4E-10	4	8.9E-10	1.1E-09	1.2E-09	1.5E-09	2.1E-09	3.0E-09	4.4E-09	6.0E-09	7.6E-09	8.8E-09	9.0E-09	8.5E-09	7.4E-09	6.1E-09	4.9E-09	4.0E-09	1.9E-09	1.6E-09	1.4E-09	2.9E-09	3.9E-09
STKP_L_N	127-18-4	Tetrachloroethene	8.13E-08	1.2E-12	4	4.3E-12	5.2E-12	6.1E-12	7.5E-12	1.0E-11	1.5E-11	2.2E-11	2.9E-11	3.7E-11	4.3E-11	4.4E-11	4.1E-11	3.6E-11	3.0E-11	2.4E-11	2.0E-11	9.0E-12	8.0E-12	6.7E-12	1.4E-11	1.9E-11
STKP_L_N	132-64-9	Dibenzofuran	5.63E-06	8.1E-11	4	3.0E-10	3.6E-10	4.2E-10	5.2E-10	7.1E-10	1.0E-09	1.5E-09	2.0E-09	2.6E-09	3.0E-09	3.1E-09	2.9E-09	2.5E-09	2.0E-09	1.7E-09	1.4E-09	6.3E-10	5.6E-10	4.7E-10	1.0E-09	1.3E-09
STKP_L_N	1653-40-3	6-METHYL-1,1-HEPTANOL	3.13E-04	4.5E-09	4	1.7E-08	2.0E-08	2.3E-08	2.9E-08	3.9E-08	5.7E-08	8.3E-08	1.1E-07	1.4E-07	1.6E-07	1.7E-07	1.6E-07	1.4E-07	1.1E-07	9.2E-08	7.5E-08	3.5E-08	3.1E-08	2.6E-08	5.5E-08	7.3E-08
STKP_L_N	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	3.44E-05	4.9E-10	4	1.8E-09	2.2E-09	2.6E-09	3.2E-09	4.3E-09	6.3E-09	9.1E-09	1.2E-08	1.6E-08	1.8E-08	1.9E-08	1.8E-08	1.5E-08	1.3E-08	1.0E-08	8.3E-09	3.8E-09	3.4E-09	2.8E-09	6.1E-09	8.1E-09
STKP_L_N	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	8.65E-05	1.2E-09	4	4.6E-09	5.5E-09	6.5E-09	8.0E-09	1.1E-08	1.6E-08	2.3E-08	3.1E-08	4.0E-08	4.6E-08	4.7E-08	4.4E-08	3.8E-08	3.1E-08	2.5E-08	2.1E-08	9.6E-09	8.5E-09	7.2E-09	1.5E-08	2.0E-08
STKP_L_N	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	4.27E-05	6.1E-10	4	2.3E-09	2.7E-09	3.2E-09	3.9E-09	5.4E-09	7.8E-09	1.1E-08	1.5E-08	2.0E-08	2.2E-08	2.3E-08	2.2E-08	1.9E-08	1.6E-08	1.3E-08	1.0E-08	4.8E-09	4.2E-09	3.5E-09	7.6E-09	1.0E-08
STKP_L_N	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	3.54E-05	5.1E-10	4	1.9E-09	2.3E-09	2.7E-09	3.3E-09	4.4E-09	6.5E-09	9.4E-09	1.3E-08	1.6E-08	1.9E-08	1.9E-08	1.8E-08	1.6E-08	1.3E-08	1.0E-08	8.5E-09	3.9E-09	3.5E-09	2.9E-09	6.3E-09	8.3E-09
STKP_L_N	26952-21-6	ISOOCTANOL	1.15E-04	1.6E-09	4	6.1E-09	7.3E-09	8.6E-09	1.1E-08	1.4E-08	2.1E-08	3.0E-08	4.2E-08	5.3E-08	6.0E-08	6.2E-08	5.9E-08	5.1E-08	4.2E-08	3.4E-08	2.8E-08	1.3E-08	1.1E-08	9.5E-09	2.0E-08	2.7E-08
STKP_L_N	2719-52-0	(1-METHYLBUTYL)BENZENE	6.36E-05	9.1E-10	4	3.4E-09	4.0E-09	4.8E-09	5.9E-09	8.0E-09	1.2E-08	1.7E-08	2.3E-08	2.9E-08	3.3E-08	3.4E-08	3.2E-08	2.8E-08	2.3E-08	1.9E-08	1.5E-08	7.1E-09	6.3E-09	5.3E-09	1.1E-08	1.5E-08
STKP_L_N	2883-05-8	2-CYCLOHEXYLDECANE	8.44E-05	1.2E-09	4	4.5E-09	5.4E-09	6.3E-09	7.8E-09	1.1E-08	1.5E-08	2.2E-08	3.1E-08	3.9E-08	4.4E-08	4.6E-08	4.3E-08	3.7E-08	3.1E-08	2.5E-08	2.0E-08	9.4E-09	8.3E-09	7.0E-09	1.5E-08	2.0E-08
STKP_L_N	33213-65-9	Endosulfan II	1.15E-07	1.6E-12	4	6.1E-12	7.3E-12	8.6E-12	1.1E-11	1.4E-11	2.1E-11	3.0E-11	4.2E-11	5.3E-11	6.0E-11	6.2E-11	5.9E-11	5.1E-11	4.2E-11	3.4E-11	2.8E-11	1.3E-11	1.1E-11	9.5E-12	2.0E-11	2.7E-11
STKP_L_N	3875-51-2	1-METHYLETHYLCYCLOPENTANE	4.38E-05	6.3E-10	4	2.3E-09	2.8E-09	3.3E-09	4.0E-09	5.5E-09	8.0E-09	1.2E-08	1.6E-08	2.0E-08	2.3E-08	2.4E-08	2.2E-08	1.9E-08	1.6E-08	1.3E-08	1.1E-08	4.9E-09	4.3E-09	3.6E-09	7.7E-09	1.0E-08
STKP_L_N	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	2.81E-05	4.0E-10	4	1.5E-09	1.8E-09	2.1E-09	2.6E-09	3.5E-09	5.1E-09	7.5E-09	1.0E-08	1.3E-08	1.5E-08	1.5E-08	1.4E-08	1.2E-08	1.0E-08	8.3E-09	6.8E-09	3.1E-09	2.8E-09	2.3E-09	5.0E-09	6.6E-09
STKP_L_N	496-10-6	OCTAHYDROINDENE	3.23E-04	4.6E-09	4	1.7E-08	2.1E-08	2.4E-08	3.0E-08	4.1E-08	5.9E-08	8.6E-08	1.2E-07	1.5E-07	1.7E-07	1.8E-07	1.6E-07	1.4E-07	1.2E-07	9.5E-08	7.8E-08	3.6E-08	3.2E-08	2.7E-08	5.7E-08	7.6E-08
STKP_L_N	5103-74-2	GAMMA-CHLORDANE	1.77E-07	2.5E-12	4	9.4E-12	1.1E-11	1.3E-11	1.6E-11	2.2E-11	3.2E-11	4.7E-11	6.4E-11	8.1E-11	9.3E-11	9.6E-11	9.0E-11	7.8E-11	6.4E-11	5.2E-11	4.3E-11	2.0E-11	1.7E-11	1.5E-11	3.1E-11	4.2E-11
STKP_L_N	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	7.81E-05	1.1E-09	4	4.2E-09	5.0E-09	5.9E-09	7.2E-09	9.8E-09	1.4E-08	2.1E-08	2.8E-08	3.6E-08	4.1E-08	4.2E-08	4.0E-08	3.5E-08	2.8E-08	2.3E-08	1.9E-08	8.7E-09	7.7E-09	6.5E-09	1.4E-08	1.8E-08
STKP_L_N	53469-21-9	Aroclor 1242	4.38E-05	6.3E-10	4	2.3E-09	2.8E-09	3.3E-09	4.0E-09	5.5E-09	8.0E-09	1.2E-08	1.6E-08	2.0E-08	2.3E-08	2.4E-08	2.2E-08	1.9E-08	1.6E-08	1.3E-08	1.1E-08	4.9E-09	4.3E-09	3.6E-09	7.7E-09	1.0E-08
STKP_L_N	53494-70-5	Endrin ketone	3.13E-08	4.5E-13	4	1.7E-12	2.0E-12	2.3E-12	2.9E-12	3.9E-12	5.7E-12	8.3E-12	1.1E-11	1.4E-11	1.6E-11	1.7E-11	1.6E-11	1.4E-11	1.1E-11	9.2E-12	7.5E-12	3.5E-12	3.1E-12	2.6E-12	5.5E-12	7.3E-12
STKP_L_N	5364-83-0	(1-PROPENYL)CYCLOHEXANE	4.17E-04	6.0E-09	4	2.2E-08	2.6E-08	3.1E-08	3.8E-08	5.2E-08	7.6E-08	1.1E-07	1.5E-07	1.9E-07	2.2E-07	2.3E-07	2.1E-07	1.8E-07	1.5E-07	1.2E-07	1.0E-07	4.6E-08	4.1E-08	3.4E-08	7.4E-08	9.8E-08
STKP_L_N	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	1.88E-05	2.7E-10	4	1.0E-09	1.2E-09	1.4E-09	1.7E-09	2.4E-09	3.4E-09	5.0E-09	6.8E-09	8.6E-09	9.9E-09	1.0E-08	9.6E-09	8.3E-09	6.8E-09	5.5E-09	4.5E-09	2.1E-09	1.9E-09	1.6E-09	3.3E-09	4.4E-09
STKP_L_N	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	8.02E-05	1.2E-09	4	4.3E-09	5.1E-09	6.0E-09	7.4E-09	1.0E-08	1.5E-08	2.1E-08	2.9E-08	3.7E-08	4.2E-08	4.3E-08	4.1E-08	3.6E-08	2.9E-08	2.4E-08	1.9E-08	8.9E-09	7.9E-09	6.6E-09	1.4E-08	1.9E-08
STKP_L_N	591-78-6	2-Hexanone	3.54E-08	5.1E-13	4	1.9E-12	2.3E-12	2.7E-12	3.3E-12	4.4E-12	6.5E-12	9.4E-12	1.3E-11	1.6E-11	1.9E-11	1.9E-11	1.8E-11	1.6E-11	1.3E-11	1.0E-11	8.5E-12	3.9E-12	3.5E-12	2.9E-12	6.3E-12	8.3E-12
STKP_L_N	65-85-0	Benzoic acid	1.67E-06	2.4E-11	4	8.9E-11	1.1E-10	1.2E-10	1.5E-10	2.1E-10	3.0E-10	4.4E-10	6.0E-10	7.6E-10	8.8E-10	9.0E-10	8.5E-10	7.4E-10	6.1E-10	4.9E-10	4.0E-10	1.9E-10	1.6E-10	1.4E-10	2.9E-10	3.9E-10
STKP_L_N	67-66-3	Chloroform	2.60E-04	3.7E-09	4	1.4E-08	1.7E-08	2.0E-08	2.4E-08	3.3E-08	4.8E-08	6.9E-08	9.4E-08	1.2E-07	1.4E-07	1.4E-07	1.3E-07	1.2E-07	9.5E-08	7.7E-08	6.3E-08	2.9E-08	2.6E-08	2.2E-08	4.6E-08	6.1E-08
STKP_L_N	71-55-6	1,1,1-Trichloroethane	1.35E-04	1.9E-09	4	7.2E-09	8.6E-09	1.0E-08	1.3E-08	1.7E-08	2.5E-08	3.6E-08	4.9E-08	6.2E-08	7.1E-08	7.3E-08	6.9E-08	6.0E-08	4.9E-08	4.0E-08	3.3E-08	1.5E-08	1.3E-08	1.1E-08	2.4E-08	3.2E-08
STKP_L_N	75-34-3	1,1-Dichloroethane	7.29E-06	1.0E-10	4	3.9E-10	4.6E-10	5.5E-10	6.7E-10	9.1E-10	1.3E-09	1.9E-09	2.6E-09	3.3E-09	3.8E-09	4.0E-09	3.7E-09	3.2E-09	2.7E-09	2.2E-09	1.8E-09	8.1E-10	7.2E-10	6.0E-10	1.3E-09	1.7E-09
STKP_L_N	75-35-4	1,1-Dichloroethene	4.48E-08	6.4E-13	4	2.4E-12	2.8E-12	3.4E-12	4.1E-12	5.6E-12	8.2E-12	1.2E-11	1.6E-11	2.1E-11	2.4E-11	2.4E-11	2.3E-11	2.0E-11	1.6E-11	1.3E-11	1.1E-11	5.0E-12	4.4E-12	3.7E-12	7.9E-12	1.1E-11
STKP_L_N	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	8.96E-05	1.3E-09	4	4.8E-09	5.7E-09	6.7E-09	8.3E-09	1.1E-08	1.6E-08	2.4E-08	3.2E-08	4.1E-08	4.7E-08	4.9E-08	4.6E-08	4.0E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	8.8E-09	7.4E-09	1.6E-08	2.1E-08
STKP_L_N	79-34-5	1,1,2,2-Tetrachloroethane	9.79E-07	1.4E-11	4	5.2E-11	6.2E-11	7.3E-11	9.0E-11	1.2E-10	1.8E-10	2.6E-10	3.5E-10	4.5E-10	5.2E-10	5.3E-10	5.0E-10	4.3E-10	3.6E-10	2.9E-10	2.4E-10	1.1E-10	9.7E-11	8.1E-11	1.7E-10	2.3E-10
STKP_L_N	87-61-6	1,2,3-Trichlorobenzene	1.35E-08	1.9E-13	4	7.2E-13	8.6E-13	1.0E-12	1.3E-12	1.7E-12	2.5E-12	3.6E-12	4.9E-12	6.2E-12	7.1E-12	7.3E-12	6.9E-12	6.0E-12	4.9E-12	4.0E-12	3.3E-12	1.5E-12	1.3E-12	1.1E-12	2.4E-12	3.2E-12
STKP_L_N	91-17-8	DECAHYDRONAPHTHALENE	1.56E-04	2.2E-09	4	8.3E-09	9.9E-09	1.2E-08	1.4E-08	2.0E-08	2.9E-08	4.2E-08	5.7E-08	7.2E-08	8.2E-08	8.5E-08	8.0E-08	6.9E-08	5.7E-08	4.6E-08	3.8E-08	1.7E-08	1.5E-08	1.3E-08	2.8E-08	3.7E-08
STKP_L_N	941-60-6	1,1,4-6-TETRAMETHYLINDANE	2.08E-05	3.0E-10	4	1.1E-09	1.3E-09	1.6E-09	1.9E-09	2.6E-09	3.8E-09	5.5E-09	7.6E-09	9.6E-09	1.1E-08	1.1E-08	1.1E-08	9.2E-09	7.6E-09	6.1E-09	5.0E-09	2.3E-09	2.1E-09	1.7E-09	3.7E-09	4.9E-09
STKP_L_N	96-12-8	1,2-Dibromo-3-Chloropropane	6.15E-08	8.8E-13	4	3.3E-12	3.9E-12	4.6E-12	5.7E-12	7.7E-12	1.1E-11	1.6E-11	2.2E-11	2.8E-11	3.2E-11	3.3E-11	3.1E-11	2.7E-11	2.2E-11	1.8E-11	1.5E-11	6.8E-12	6.1E-12	5.1E-12	1.1E-11	1.4E-11
STKP_L_N	98-06-6	tert-Butylbenzene	2.81E-08	4.0E-13	4	1.5E-12	1.8E-12	2.1E-12	2.6E-12	3.5E-12	5.1E-12	7.5E-12	1.0E-11	1.3E-11	1.5E-11	1.5E-11	1.4E-11	1.2E-11	1.0E-11	8.3E-12	6.8E-12	3.1E-12	2.8E-12	2.3E-12	5.0E-12	6.6E-12
STKP_L_S	100-41-4	Ethylbenzene	2.37E-04	3.4E-09	1	6.4E-09	7.7E-09	9.3E-09	1.1E-08	1.3E-08	1.6E-08	1.8E-08	2.1E-08	2.4E-08	2.6E-08	2.9E-08	3.0E-08	3.0E-08	2.9E-08	2.8E-08	2.6E-08	1.6E-08	1.5E-08	1.3E-08	1.9E-08	2.0E-08
STKP_L_S	100-42-5	Styrene	1.49E-04	2.1E-09	1	4.0E-09	4.9E-09	5.9E-09	7.1E-09	8.5E-09	9.9E-09	1.1E-08	1.3E-08	1.5E-08	1.7E-08	1.8E-08	1.9E-08	1.9E-08	1.8E-08	1.8E-08	1.7E-08	1.0E-08	9.2E-09	8.3E-09	1.2E-08	1.3E-08
STKP_L_S	103-65-1	n-Propylbenzene	2.92E-05	4.2E-10	1	7.9E-10	9.5E-10	1.1E-09	1.4E-09	1.7E-09	2.0E-09	2.3E-09	2.6E-09	2.9E-09	3.2E-09	3.5E-09	3.7E-09	3.7E-09	3.6E-09	3.5E-09	3.2E-09	2.0E-09	1.8E-09	1.6E-09	2.4E-09	2.5E-09
STKP_L_S	104-51-8	n-Butylbenzene	5.26E-06	7.6E-11	1	1.4E-10	1.7E-10	2.1E-10	2.5E-10	3.0E-10	3.5E-10	4.1E-10	4.6E-10	5.3E-10	5.9E-10	6.3E-10	6.6E-10	6.6E-10	6.5E-10	6.2E-10	5.8E-10	3.7E-10	3.2E-10	2.9E-10	4.3E-10	4.5E-10
STKP_L_S	108-67-8	1,3,5-Trimethylbenzene	1.64E-05	2.4E-10	1	4.4E-10	5.3E-10	6.4E-10	7.8E-10	9.3E-10	1.1E-09	1.3E-09	1.4E-09	1.6E-09	1.8E-09	2.0E-09	2.1E-09	2.1E-09	2.0E-09	1.9E-09	1.8E-09	1.1E-09	1.0E-09	9.2E-10	1.3E-09	1.4E-09
STKP_L_S	108-88-3	Toluene	1.78E-05	2.6E-10	1	4.8E-10	5.8E-10	7.0E-10	8.5E-10	1.0E-09	1.2E-09	1.4E-09	1.6E-09	1.8E-09	2.0E-09	2.1E-09	2.2E-09	2.2E-09	2.2E-09	2.1E-09	2.0E-09	1.2E-09	1.1E-09	1.0E-09	1.5E-09	1.5E-09
STKP_L_S	11096-82-5	Aroclor 1260	1.57E-06	2.3E-11	1	4.3E-11	5.1E-11	6.2E-11	7.5E-11	8.9E-11	1.0E-10	1.2E-10	1.4E-10	1.6E-10	1.7E-10	1.9E-10	2.0E-10	2.0E-10	1.9E-10	1.9E-10	1.7E-10	1.1E-10	9.7E-11	8.8E-11	1.3E-10	1.3E-10

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	CAS	Chemical	lbs/year	g/s	Source No.	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	120-12-7	Anthracene	1.46E-05	2.1E-10	1	4.0E-10	4.8E-10	5.7E-10	6.9E-10	8.3E-10	9.7E-10	1.1E-09	1.3E-09	1.5E-09	1.6E-09	1.8E-09	1.8E-09	1.8E-09	1.8E-09	1.7E-09	1.6E-09	1.0E-09	9.0E-10	8.2E-10	1.2E-09	1.2E-09
STKP_L_S	129-00-0	Pyrene	4.62E-06	6.6E-11	1	1.3E-10	1.5E-10	1.8E-10	2.2E-10	2.6E-10	3.1E-10	3.6E-10	4.1E-10	4.6E-10	5.1E-10	5.6E-10	5.8E-10	5.8E-10	5.7E-10	5.5E-10	5.1E-10	3.2E-10	2.8E-10	2.6E-10	3.8E-10	4.0E-10
STKP_L_S	1330-20-7	XYLENES (TOTAL)	9.01E-05	1.3E-09	1	2.4E-09	2.9E-09	3.5E-09	4.3E-09	5.1E-09	6.0E-09	7.0E-09	8.0E-09	9.0E-09	1.0E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.0E-08	6.3E-09	5.5E-09	5.1E-09	7.4E-09	7.7E-09
STKP_L_S	135-98-8	(1-METHYLPROPYL)BENZENE	1.29E-04	1.9E-09	1	3.5E-09	4.2E-09	5.1E-09	6.2E-09	7.4E-09	8.6E-09	1.0E-08	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.6E-08	1.6E-08	1.6E-08	1.5E-08	1.4E-08	9.0E-09	8.0E-09	7.2E-09	1.1E-08	1.1E-08
STKP_L_S	179601-23-1	m,p-Xylenes	4.04E-05	5.8E-10	1	1.1E-09	1.3E-09	1.6E-09	1.9E-09	2.3E-09	2.7E-09	3.1E-09	3.6E-09	4.0E-09	4.5E-09	4.9E-09	5.1E-09	5.1E-09	5.0E-09	4.8E-09	4.5E-09	2.8E-09	2.5E-09	2.3E-09	3.3E-09	3.5E-09
STKP_L_S	67-64-1	2-PROPANONE	3.45E-05	5.0E-10	1	9.4E-10	1.1E-09	1.4E-09	1.6E-09	2.0E-09	2.3E-09	2.7E-09	3.0E-09	3.4E-09	3.8E-09	4.2E-09	4.3E-09	4.4E-09	4.3E-09	4.1E-09	3.8E-09	2.4E-09	2.1E-09	1.9E-09	2.8E-09	3.0E-09
STKP_L_S	71-43-2	Benzene	1.11E-05	1.6E-10	1	3.0E-10	3.6E-10	4.4E-10	5.3E-10	6.3E-10	7.4E-10	8.6E-10	9.8E-10	1.1E-09	1.2E-09	1.3E-09	1.4E-09	1.4E-09	1.4E-09	1.3E-09	1.2E-09	7.7E-10	6.9E-10	6.2E-10	9.1E-10	9.6E-10
STKP_L_S	7421-93-4	Endrin aldehyde	3.67E-08	5.3E-13	1	1.0E-12	1.2E-12	1.4E-12	1.8E-12	2.1E-12	2.5E-12	2.8E-12	3.2E-12	3.7E-12	4.1E-12	4.4E-12	4.6E-12	4.6E-12	4.5E-12	4.4E-12	4.1E-12	2.6E-12	2.3E-12	2.1E-12	3.0E-12	3.2E-12
STKP_L_S	7439-98-7	Molybdenum	3.30E-05	4.7E-10	1	9.0E-10	1.1E-09	1.3E-09	1.6E-09	1.9E-09	2.2E-09	2.5E-09	2.9E-09	3.3E-09	3.7E-09	4.0E-09	4.1E-09	4.2E-09	4.1E-09	3.9E-09	3.7E-09	2.3E-09	2.0E-09	1.8E-09	2.7E-09	2.8E-09
STKP_L_S	75-09-2	Methylene Chloride	1.51E-05	2.2E-10	1	4.1E-10	4.9E-10	5.9E-10	7.2E-10	8.6E-10	1.0E-09	1.2E-09	1.3E-09	1.5E-09	1.7E-09	1.8E-09	1.9E-09	1.9E-09	1.9E-09	1.8E-09	1.7E-09	1.0E-09	9.3E-10	8.5E-10	1.2E-09	1.3E-09
STKP_L_S	75-69-4	Trichlorofluoromethane	5.06E-06	7.3E-11	1	1.4E-10	1.7E-10	2.0E-10	2.4E-10	2.9E-10	3.4E-10	3.9E-10	4.5E-10	5.1E-10	5.6E-10	6.1E-10	6.3E-10	6.4E-10	6.3E-10	6.0E-10	5.6E-10	3.5E-10	3.1E-10	2.8E-10	4.1E-10	4.3E-10
STKP_L_S	78-93-3	2-Butanone	9.79E-06	1.4E-10	1	2.7E-10	3.2E-10	3.9E-10	4.7E-10	5.6E-10	6.5E-10	7.6E-10	8.6E-10	9.8E-10	1.1E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.1E-09	6.8E-10	6.0E-10	5.5E-10	8.0E-10	8.4E-10
STKP_L_S	83-32-9	Acenaphthene	3.77E-06	5.4E-11	1	1.0E-10	1.2E-10	1.5E-10	1.8E-10	2.1E-10	2.5E-10	2.9E-10	3.3E-10	3.8E-10	4.2E-10	4.5E-10	4.7E-10	4.7E-10	4.7E-10	4.5E-10	4.2E-10	2.6E-10	2.3E-10	2.1E-10	3.1E-10	3.2E-10
STKP_L_S	85-01-8	Phenanthrene	1.42E-03	2.0E-08	1	3.9E-08	4.6E-08	5.6E-08	6.8E-08	8.1E-08	9.5E-08	1.1E-07	1.3E-07	1.4E-07	1.6E-07	1.7E-07	1.8E-07	1.8E-07	1.8E-07	1.7E-07	1.6E-07	9.8E-08	8.7E-08	8.0E-08	1.2E-07	1.2E-07
STKP_L_S	86-73-7	Fluorene	2.28E-05	3.3E-10	1	6.2E-10	7.5E-10	9.0E-10	1.1E-09	1.3E-09	1.5E-09	1.8E-09	2.0E-09	2.3E-09	2.5E-09	2.8E-09	2.9E-09	2.9E-09	2.8E-09	2.7E-09	2.5E-09	1.6E-09	1.4E-09	1.3E-09	1.9E-09	2.0E-09
STKP_L_S	91-20-3	Naphthalene	1.78E-04	2.6E-09	1	4.8E-09	5.8E-09	7.0E-09	8.5E-09	1.0E-08	1.2E-08	1.4E-08	1.6E-08	1.8E-08	2.0E-08	2.1E-08	2.2E-08	2.2E-08	2.2E-08	2.1E-08	2.0E-08	1.2E-08	1.1E-08	1.0E-08	1.5E-08	1.5E-08
STKP_L_S	91-57-6	2-Methylnaphthalene	7.70E-05	1.1E-09	1	2.1E-09	2.5E-09	3.0E-09	3.7E-09	4.4E-09	5.2E-09	6.0E-09	6.8E-09	7.7E-09	8.6E-09	9.3E-09	9.7E-09	9.7E-09	9.5E-09	9.1E-09	8.6E-09	5.4E-09	4.7E-09	4.3E-09	6.3E-09	6.6E-09
STKP_L_S	95-47-6	o-Xylene	1.93E-05	2.8E-10	1	5.3E-10	6.3E-10	7.6E-10	9.2E-10	1.1E-09	1.3E-09	1.5E-09	1.7E-09	1.9E-09	2.2E-09	2.3E-09	2.4E-09	2.4E-09	2.4E-09	2.3E-09	2.1E-09	1.3E-09	1.2E-09	1.1E-09	1.6E-09	1.7E-09
STKP_L_S	95-50-1	1,2-Dichlorobenzene	2.84E-06	4.1E-11	1	7.7E-11	9.3E-11	1.1E-10	1.4E-10	1.6E-10	1.9E-10	2.2E-10	2.5E-10	2.8E-10	3.2E-10	3.4E-10	3.6E-10	3.6E-10	3.5E-10	3.4E-10	3.2E-10	2.0E-10	1.7E-10	1.6E-10	2.3E-10	2.4E-10
STKP_L_S	95-63-6	1,2,4-Trimethylbenzene	4.98E-05	7.2E-10	1	1.4E-09	1.6E-09	2.0E-09	2.4E-09	2.8E-09	3.3E-09	3.8E-09	4.4E-09	5.0E-09	5.5E-09	6.0E-09	6.2E-09	6.3E-09	6.2E-09	5.9E-09	5.5E-09	3.5E-09	3.1E-09	2.8E-09	4.1E-09	4.3E-09
STKP_L_S	98-82-8	1-METHYLETHYLBENZENE	1.44E-04	2.1E-09	1	3.9E-09	4.7E-09	5.7E-09	6.9E-09	8.2E-09	9.7E-09	1.1E-08	1.3E-08	1.4E-08	1.6E-08	1.7E-08	1.8E-08	1.8E-08	1.8E-08	1.7E-08	1.6E-08	1.0E-08	8.9E-09	8.1E-09	1.2E-08	1.2E-08
STKP_L_S	10042-59-8	2-PROPYL-1-HEPTANOL	3.46E-04	5.0E-09	1	9.4E-09	1.1E-08	1.4E-08	1.7E-08	2.0E-08	2.3E-08	2.7E-08	3.1E-08	3.5E-08	3.8E-08	4.2E-08	4.3E-08	4.4E-08	4.3E-08	4.1E-08	3.8E-08	2.4E-08	2.1E-08	1.9E-08	2.8E-08	3.0E-08
STKP_L_S	1031-07-8	Endosulfan sulfate	7.82E-08	1.1E-12	1	2.1E-12	2.6E-12	3.1E-12	3.7E-12	4.5E-12	5.2E-12	6.0E-12	6.9E-12	7.8E-12	8.7E-12	9.4E-12	9.8E-12	9.9E-12	9.7E-12	9.3E-12	8.7E-12	5.4E-12	4.8E-12	4.4E-12	6.4E-12	6.7E-12
STKP_L_S	106-42-3	P-XYLENE	7.09E-06	1.0E-10	1	1.9E-10	2.3E-10	2.8E-10	3.4E-10	4.0E-10	4.7E-10	5.5E-10	6.3E-10	7.1E-10	7.9E-10	8.5E-10	8.9E-10	8.9E-10	8.8E-10	8.4E-10	7.9E-10	4.9E-10	4.4E-10	4.0E-10	5.8E-10	6.1E-10
STKP_L_S	106-43-4	4-Chlorotoluene	2.18E-05	3.1E-10	1	5.9E-10	7.1E-10	8.6E-10	1.0E-09	1.2E-09	1.5E-09	1.7E-09	1.9E-09	2.2E-09	2.4E-09	2.6E-09	2.7E-09	2.8E-09	2.7E-09	2.6E-09	2.4E-09	1.5E-09	1.3E-09	1.2E-09	1.8E-09	1.9E-09
STKP_L_S	106-46-7	1,4-Dichlorobenzene	4.18E-06	6.0E-11	1	1.1E-10	1.4E-10	1.6E-10	2.0E-10	2.4E-10	2.8E-10	3.2E-10	3.7E-10	4.2E-10	4.7E-10	5.0E-10	5.3E-10	5.3E-10	5.2E-10	5.0E-10	4.7E-10	2.9E-10	2.6E-10	2.3E-10	3.4E-10	3.6E-10
STKP_L_S	106-93-4	1,2-Dibromoethane	1.11E-07	1.6E-12	1	3.0E-12	3.6E-12	4.4E-12	5.3E-12	6.3E-12	7.4E-12	8.6E-12	9.8E-12	1.1E-11	1.2E-11	1.3E-11	1.4E-11	1.4E-11	1.4E-11	1.3E-11	1.2E-11	7.7E-12	6.8E-12	6.2E-12	9.1E-12	9.5E-12
STKP_L_S	107-06-2	1,2-Dichloroethane	1.82E-04	2.6E-09	1	4.9E-09	5.9E-09	7.2E-09	8.7E-09	1.0E-08	1.2E-08	1.4E-08	1.6E-08	1.8E-08	2.0E-08	2.2E-08	2.3E-08	2.3E-08	2.2E-08	2.2E-08	2.0E-08	1.3E-08	1.1E-08	1.0E-08	1.5E-08	1.6E-08
STKP_L_S	108-38-3	M-XYLENE	4.91E-04	7.1E-09	1	1.3E-08	1.6E-08	1.9E-08	2.3E-08	2.8E-08	3.3E-08	3.8E-08	4.3E-08	4.9E-08	5.5E-08	5.9E-08	6.2E-08	6.2E-08	6.1E-08	5.8E-08	5.5E-08	3.4E-08	3.0E-08	2.8E-08	4.0E-08	4.2E-08
STKP_L_S	108-90-7	Chlorobenzene	1.20E-04	1.7E-09	1	3.3E-09	3.9E-09	4.7E-09	5.7E-09	6.8E-09	8.0E-09	9.3E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.5E-08	1.5E-08	1.5E-08	1.4E-08	1.3E-08	8.3E-09	7.4E-09	6.7E-09	9.8E-09	1.0E-08
STKP_L_S	11097-69-1	Aroclor 1254	1.11E-04	1.6E-09	1	3.0E-09	3.6E-09	4.4E-09	5.3E-09	6.3E-09	7.4E-09	8.6E-09	9.8E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.3E-08	1.2E-08	7.7E-09	6.8E-09	6.2E-09	9.1E-09	9.5E-09
STKP_L_S	120-82-1	1,2,4-Trichlorobenzene	1.82E-08	2.6E-13	1	4.9E-13	5.9E-13	7.2E-13	8.7E-13	1.0E-12	1.2E-12	1.4E-12	1.6E-12	1.8E-12	2.0E-12	2.2E-12	2.3E-12	2.3E-12	2.2E-12	2.2E-12	2.0E-12	1.3E-12	1.1E-12	1.0E-12	1.5E-12	1.6E-12
STKP_L_S	12672-29-6	Aroclor 1248	9.46E-05	1.4E-09	1	2.6E-09	3.1E-09	3.7E-09	4.5E-09	5.4E-09	6.3E-09	7.3E-09	8.4E-09	9.5E-09	1.1E-08	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.1E-08	1.1E-08	6.6E-09	5.8E-09	5.3E-09	7.8E-09	8.1E-09
STKP_L_S	12674-11-2	Aroclor 1016	2.91E-05	4.2E-10	1	7.9E-10	9.5E-10	1.1E-09	1.4E-09	1.7E-09	1.9E-09	2.2E-09	2.6E-09	2.9E-09	3.2E-09	3.5E-09	3.7E-09	3.7E-09	3.6E-09	3.5E-09	3.2E-09	2.0E-09	1.8E-09	1.6E-09	2.4E-09	2.5E-09
STKP_L_S	127-18-4	Tetrachloroethene	1.42E-07	2.0E-12	1	3.9E-12	4.6E-12	5.6E-12	6.8E-12	8.1E-12	9.5E-12	1.1E-11	1.3E-11	1.4E-11	1.6E-11	1.7E-11	1.8E-11	1.8E-11	1.8E-11	1.7E-11	1.6E-11	9.9E-12	8.7E-12	8.0E-12	1.2E-11	1.2E-11
STKP_L_S	132-64-9	Dibenzofuran	9.82E-06	1.4E-10	1	2.7E-10	3.2E-10	3.9E-10	4.7E-10	5.6E-10	6.6E-10	7.6E-10	8.7E-10	9.8E-10	1.1E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.2E-09	1.1E-09	6.8E-10	6.0E-10	5.5E-10	8.1E-10	8.4E-10
STKP_L_S	1653-40-3	6-METHYL-1,1-HEPTANOL	5.46E-04	7.8E-09	1	1.5E-08	1.8E-08	2.2E-08	2.6E-08	3.1E-08	3.6E-08	4.2E-08	4.8E-08	5.5E-08	6.1E-08	6.6E-08	6.9E-08	6.9E-08	6.7E-08	6.5E-08	6.1E-08	3.8E-08	3.4E-08	3.1E-08	4.5E-08	4.7E-08
STKP_L_S	1985-57-5	(1,1-DIMETHYLBUTYL)BENZENE	6.00E-05	8.6E-10	1	1.6E-09	2.0E-09	2.4E-09	2.9E-09	3.4E-09	4.0E-09	4.6E-09	5.3E-09	6.0E-09	6.7E-09	7.2E-09	7.5E-09	7.6E-09	7.4E-09	7.1E-09	6.7E-09	4.2E-09	3.7E-09	3.4E-09	4.9E-09	5.2E-09
STKP_L_S	2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE	1.51E-04	2.2E-09	1	4.1E-09	4.9E-09	5.9E-09	7.2E-09	8.6E-09	1.0E-08	1.2E-08	1.3E-08	1.5E-08	1.7E-08	1.8E-08	1.9E-08	1.9E-08	1.9E-08	1.8E-08	1.7E-08	1.0E-08	9.3E-09	8.5E-09	1.2E-08	1.3E-08
STKP_L_S	22531-20-0	6-ETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE	7.46E-05	1.1E-09	1	2.0E-09	2.4E-09	2.9E-09	3.6E-09	4.2E-09	5.0E-09	5.8E-09	6.6E-09	7.5E-09	8.3E-09	9.0E-09	9.4E-09	9.4E-09	9.2E-09	8.8E-09	8.3E-09	5.2E-09	4.6E-09	4.2E-09	6.1E-09	6.4E-09
STKP_L_S	22975-62-8	1-(1-METHYLETHENYL)-4-PROPYLBENZENE	6.18E-05	8.9E-10	1	1.7E-09	2.0E-09	2.4E-09	3.0E-09	3.5E-09	4.1E-09	4.8E-09	5.5E-09	6.2E-09	6.9E-09	7.5E-09	7.8E-09	7.8E-09	7.6E-09	7.3E-09	6.9E-09	4.3E-09	3.8E-09	3.5E-09	5.1E-09	5.3E-09
STKP_L_S	26952-21-6	ISOOCTANOL	2.00E-04	2.9E-09	1	5.4E-09	6.5E-09	7.9E-09	9.6E-09	1.1E-08	1.3E-08	1.5E-08	1.8E-08	2.0E-08	2.2E-08	2.4E-08	2.5E-08	2.5E-08	2.5E-08	2.4E-08	2.2E-08	1.4E-08	1.2E-08	1.1E-08	1.6E-08	1.7E-08
STKP_L_S	2719-52-0	(1-METHYLBUTYL)BENZENE	1.11E-04	1.6E-09	1	3.0E-09	3.6E-09	4.4E-09	5.3E-09	6.3E-09	7.4E-09	8.6E-09	9.8E-09	1.1E-08	1.2E-08	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.3E-08	1.2E-08	7.7E-09	6.8E-09	6.2E-09	9.1E-09	9.5E-09
STKP_L_S	2883-05-8	2-CYCLOHEXYLDECANE	1.47E-04	2.1E-09	1	4.0E-09	4.8E-09	5.8E-09	7.0E-09	8.4E-09	9.9E-09	1.1E-08	1.3E-08	1.5E-08	1.6E-08	1.8E-08	1.8E-08	1.9E-08	1.8E-08	1.7E-08	1.6E-08	1.0E-08	9.1E-09	8.3E-09	1.2E-08	1.3E-08
STKP_L_S	33213-65-9	Endosulfan II	2.00E-07	2.9E-12	1	5.4E-12	6.5E-12	7.9E-12	9.6E-12	1.1E-11	1.3E-11	1.5E-11	1.8E-11	2.0E-11	2.2E-11	2.4E-11	2.5E-11	2.5E-11	2.5E-11	2.4E-11	2.2E-11	1.4E-11	1.2E-11	1.1E-11	1.6E-11	1.7E-11
STKP_L_S	3875-51-2	1-METHYLETHYLCYCLOPENTANE	7.64E-05	1.1E-09	1	2.1E-09	2.5E-09	3.0E-09	3.6E-09	4.4E-09	5.1E-09	5.9E-09	6.7E-09	7.6E-09	8.5E-09	9.2E-09	9.6E-09	9.6E-09	9.4E-09	9.1E-09	8.5E-09	5.3E-09	4.7E-09	4.3E-09	6.3E-09	6.6E-09
STKP_L_S	4218-48-8	1-ETHYL-4-(1-METHYLETHYL)BENZENE	4.91E-05	7.1E-10	1	1.3E-09	1.6E-09	1.9E-09	2.3E-09	2.8E-09	3.3E-09	3.8E-09	4.3E-09	4.9E-09	5.5E-09	5.9E-09	6.2E-09	6.2E-09	6.1E-09	5.8E-09	5.5E-09	3.4E-09	3.0E-09	2.8E-09	4.0E-09	4.2E-09
STKP_L_S	496-10-6	OCTAHYDROINDENE	5.64E-04	8.1E-09	1	1.5E-08	1.8E-08	2.2E-08	2.7E-08	3.2E-08	3.8E-08	4.4E-08	5.0E-08	5.6E-08	6.3E-08	6.8E-08	7.1E-08	7.1E-08	7.0E-08	6.7E-08	6.3E-08	3.9E-08	3.5E-08	3.2E-08	4.6E-08	4.8E-08
STKP_L_S	5103-74-2	GAMMA-CHLORDANE	3.09E-07	4.4E-12	1	8.4E-12	1.0E-11	1.2E-11	1.5E-11	1.8E-11	2.1E-11	2.4E-11	2.7E-11	3.1E-11	3.4E-11	3.7E-11	3.9E-11	3.9E-11	3.8E-11	3.7E-11	3.4E-11	2.1E-11	1.9E-11	1.7E-11	2.5E-11	2.7E-11
STKP_L_S	527-53-7	1,2,3,5-TETRAMETHYLBENZENE	1.36E-04	2.0E-09	1	3.7E-09	4.5E-09	5.4E-09	6.5E-09	7.8E-09	9.1E-09	1.1E-08	1.2E-08	1.4E-08	1.5E-08	1.6E-08	1.7E-08	1.7E-08	1.7E-08	1.6E-08	1.5E-08	9.5E-09	8.4E-09	7.7E-09	1.1E-08	1.2E-08
STKP_L_S	53469-21-9	Aroclor 1242	7.64E-05	1.1E-09	1	2.1E-09	2.5E-09	3.0E-09	3.6E-09	4.4E-09	5.1E-09	5.9E-09	6.7E-09	7.6E-09	8.5E-09	9.2E-09	9.6E-09	9.6E-09	9.4E-09	9.1E-09	8.5E-09	5.3E-09	4.7E-09	4.3E-09	6.3E-09	6.6E-09
STKP_L_S	53494-70-5	Endrin ketone	5.46E-08	7.8E-13	1	1.5E-12	1.8E-12	2.2E-12	2.6E-12	3.1E-12	3.6E-12	4.2E-12	4.8E-12	5.5E-12	6.1E-12	6.6E-12	6.9E-12	6.9E-12	6.7E-12	6.5E-12	6.1E-12	3.8E-12	3.4E-12	3.1E-12	4.5E-12	4.7E-12
STKP_L_S	5364-83-0	(1-PROPENYL)CYCLOHEXANE	7.28E-04	1.0E-08	1	2.0E-08	2.4E-08	2.9E-08	3.5E-08	4.1E-08	4.9E-08	5.6E-08	6.4E-08	7.3E-08	8.1E-08	8.8E-08	9.1E-08	9.2E-08	9.0E-08	8.6E-08	8.1E-08	5.1E-08	4.5E-08	4.1E-08	6.0E-08	6.2E-08
STKP_L_S	54340-86-2	4-(2-BUTENYL)-1,2-DIMETHYLBENZENE	3.27E-05	4.7E-10	1	8.9E-10	1.1E-09	1.3E-09	1.6E-09	1.9E-09	2.2E-09	2.5E-09	2.9E-09	3.3E-09	3.6E-09	3.9E-09	4.1E-09	4.1E-09	4.0E-09	3.9E-09	3.6E-09	2.3E-09	2.0E-09	1.8E-09	2.7E-09	2.8E-09
STKP_L_S	5557-93-7	1-(1-METHYLETHENYL)-2-(1-METHYLETHYL)BENZENE	1.40E-04	2.0E-09	1	3.8E-09	4.6E-09	5.5E-09	6.7E-09	8.0E-09	9.4E-09	1.1E-08	1.2E-08	1.4E-08	1.6E-08	1.7E-08	1.8E-08	1.8E-08	1.7E-08	1.7E-08	1.6E-08	9.7E-09	8.6E-09	7.9E-09	1.1E-08	1.2E-08
STKP_L_S	591-78-6	2-Hexanone	6.18E-08	8.9E-13	1	1.7E-12	2.0E-12	2.4E-12	3.0E-12	3.5E-12	4.1E-12	4.8E-12	5.5E-12	6.2E-12	6.9E-12	7.5E-12	7.8E-12	7.8E-12	7.6E-12	7.3E-12	6.9E-12	4.3E-12	3.8E-12	3.5E-12	5.1E-12	5.3E-12

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
STKP_L_S	65-85-0	Benzoic acid	2.91E-06	4.2E-11	1	7.9E-11	9.5E-11	1.1E-10	1.4E-10	1.7E-10	1.9E-10	2.2E-10	2.6E-10	2.9E-10	3.2E-10	3.5E-10	3.7E-10	3.7E-10	3.6E-10	3.5E-10	3.2E-10	2.0E-10	1.8E-10	1.6E-10	2.4E-10	2.5E-10
STKP_L_S	67-66-3	Chloroform	4.55E-04	6.5E-09	1	1.2E-08	1.5E-08	1.8E-08	2.2E-08	2.6E-08	3.0E-08	3.5E-08	4.0E-08	4.5E-08	5.1E-08	5.5E-08	5.7E-08	5.7E-08	5.6E-08	5.4E-08	5.1E-08	3.2E-08	2.8E-08	2.6E-08	3.7E-08	3.9E-08
STKP_L_S	71-55-6	1,1,1-Trichloroethane	2.36E-04	3.4E-09	1	6.4E-09	7.7E-09	9.3E-09	1.1E-08	1.3E-08	1.6E-08	1.8E-08	2.1E-08	2.4E-08	2.6E-08	2.8E-08	3.0E-08	3.0E-08	2.9E-08	2.8E-08	2.6E-08	1.6E-08	1.5E-08	1.3E-08	1.9E-08	2.0E-08
STKP_L_S	75-34-3	1,1-Dichloroethane	1.27E-05	1.8E-10	1	3.5E-10	4.2E-10	5.0E-10	6.1E-10	7.3E-10	8.5E-10	9.8E-10	1.1E-09	1.3E-09	1.4E-09	1.5E-09	1.6E-09	1.6E-09	1.6E-09	1.5E-09	1.4E-09	8.8E-10	7.8E-10	7.1E-10	1.0E-09	1.1E-09
STKP_L_S	75-35-4	1,1-Dichloroethene	7.82E-08	1.1E-12	1	2.1E-12	2.6E-12	3.1E-12	3.7E-12	4.5E-12	5.2E-12	6.0E-12	6.9E-12	7.8E-12	8.7E-12	9.4E-12	9.8E-12	9.9E-12	9.7E-12	9.3E-12	8.7E-12	5.4E-12	4.8E-12	4.4E-12	6.4E-12	6.7E-12
STKP_L_S	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.56E-04	2.2E-09	1	4.3E-09	5.1E-09	6.2E-09	7.5E-09	8.9E-09	1.0E-08	1.2E-08	1.4E-08	1.6E-08	1.7E-08	1.9E-08	2.0E-08	2.0E-08	1.9E-08	1.9E-08	1.7E-08	1.1E-08	9.6E-09	8.8E-09	1.3E-08	1.3E-08
STKP_L_S	79-34-5	1,1,2,2-Tetrachloroethane	1.71E-06	2.5E-11	1	4.6E-11	5.6E-11	6.7E-11	8.2E-11	9.7E-11	1.1E-10	1.3E-10	1.5E-10	1.7E-10	1.9E-10	2.1E-10	2.1E-10	2.2E-10	2.1E-10	2.0E-10	1.9E-10	1.2E-10	1.1E-10	9.6E-11	1.4E-10	1.5E-10
STKP_L_S	87-61-6	1,2,3-Trichlorobenzene	2.36E-08	3.4E-13	1	6.4E-13	7.7E-13	9.3E-13	1.1E-12	1.3E-12	1.6E-12	1.8E-12	2.1E-12	2.4E-12	2.6E-12	2.8E-12	3.0E-12	3.0E-12	2.9E-12	2.8E-12	2.6E-12	1.6E-12	1.5E-12	1.3E-12	1.9E-12	2.0E-12
STKP_L_S	91-17-8	DECAHYDRONAPHTHALENE	2.73E-04	3.9E-09	1	7.4E-09	8.9E-09	1.1E-08	1.3E-08	1.6E-08	1.8E-08	2.1E-08	2.4E-08	2.7E-08	3.0E-08	3.3E-08	3.4E-08	3.4E-08	3.4E-08	3.2E-08	3.0E-08	1.9E-08	1.7E-08	1.5E-08	2.2E-08	2.3E-08
STKP_L_S	941-60-6	1,1,4-6-TETRAMETHYLINDANE	3.64E-05	5.2E-10	1	9.9E-10	1.2E-09	1.4E-09	1.7E-09	2.1E-09	2.4E-09	2.8E-09	3.2E-09	3.6E-09	4.0E-09	4.4E-09	4.6E-09	4.6E-09	4.5E-09	4.3E-09	4.0E-09	2.5E-09	2.2E-09	2.0E-09	3.0E-09	3.1E-09
STKP_L_S	96-12-8	1,2-Dibromo-3-Chloropropane	1.07E-07	1.5E-12	1	2.9E-12	3.5E-12	4.2E-12	5.1E-12	6.1E-12	7.2E-12	8.3E-12	9.5E-12	1.1E-11	1.2E-11	1.3E-11	1.3E-11	1.4E-11	1.3E-11	1.3E-11	1.2E-11	7.5E-12	6.6E-12	6.0E-12	8.8E-12	9.2E-12
STKP_L_S	98-06-6	tert-Butylbenzene	4.91E-08	7.1E-13	1	1.3E-12	1.6E-12	1.9E-12	2.3E-12	2.8E-12	3.3E-12	3.8E-12	4.3E-12	4.9E-12	5.5E-12	5.9E-12	6.2E-12	6.2E-12	6.1E-12	5.8E-12	5.5E-12	3.4E-12	3.0E-12	2.8E-12	4.0E-12	4.2E-12
3	103-65-1	#N/A	1.09E+01	1.6E-04	9	3.1E-04	3.7E-04	4.5E-04	5.4E-04	6.7E-04	8.3E-04	1.0E-03	1.3E-03	1.6E-03	1.9E-03	2.5E-03	3.6E-03	5.7E-03	7.2E-03	7.9E-03	7.4E-03	2.4E-03	1.9E-03	1.6E-03	2.8E-03	2.5E-03
4A	103-65-1	#N/A	8.23E+00	1.2E-04	10	1.3E-04	1.5E-04	1.7E-04	2.0E-04	2.3E-04	2.8E-04	3.4E-04	4.2E-04	5.4E-04	7.2E-04	1.0E-03	1.7E-03	3.5E-03	6.5E-03	8.5E-03	9.2E-03	2.7E-03	2.0E-03	1.8E-03	2.5E-03	1.8E-03
4B	103-65-1	#N/A	1.45E+01	2.1E-04	11	9.4E-04	1.4E-03	2.3E-03	4.7E-03	1.1E-02	1.6E-02	1.9E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02	1.8E-02	1.2E-02	8.4E-03	5.8E-03	2.0E-03	1.9E-03	1.4E-03	4.1E-03	5.9E-03
4C	103-65-1	#N/A	1.38E+01	2.0E-04	12	7.5E-04	9.4E-04	1.2E-03	1.6E-03	2.1E-03	2.7E-03	3.1E-03	3.3E-03	3.4E-03	3.4E-03	3.3E-03	3.3E-03	3.2E-03	3.0E-03	2.7E-03	2.5E-03	1.3E-03	1.2E-03	1.0E-03	1.7E-03	1.9E-03
4D	103-65-1	#N/A	2.87E+01	4.1E-04	13	7.7E-03	1.3E-02	1.7E-02	1.8E-02	1.4E-02	9.7E-03	7.3E-03	5.9E-03	4.9E-03	4.2E-03	3.7E-03	3.4E-03	3.1E-03	2.9E-03	2.6E-03	2.4E-03	1.7E-03	1.5E-03	1.4E-03	2.0E-03	2.3E-03
7	103-65-1	#N/A	1.19E+00	1.7E-05	17	3.9E-05	4.6E-05	5.3E-05	6.0E-05	6.7E-05	7.6E-05	8.5E-05	9.4E-05	1.0E-04	1.0E-04	1.1E-04	1.1E-04	1.0E-04	1.0E-04	9.5E-05	8.8E-05	5.8E-05	5.3E-05	4.9E-05	7.0E-05	7.5E-05
B_7	103-65-1	#N/A	2.84E-08	4.1E-13	35	4.4E-12	6.6E-12	1.0E-11	1.9E-11	3.8E-11	5.6E-11	5.8E-11	4.4E-11	3.1E-11	2.1E-11	1.5E-11	1.1E-11	8.0E-12	6.2E-12	4.8E-12	3.9E-12	1.9E-12	2.0E-12	1.4E-12	3.7E-12	5.4E-12
HAUL_N	103-65-1	#N/A	2.08E+00	3.0E-05	6	9.0E-05	1.2E-04	1.8E-04	2.9E-04	6.2E-04	2.2E-03	2.6E-03	1.8E-03	1.3E-03	1.1E-03	9.3E-04	8.2E-04	7.4E-04	6.5E-04	5.7E-04	5.0E-04	2.7E-04	2.3E-04	2.0E-04	3.5E-04	4.2E-04
3	104-51-8	#N/A	1.53E+00	2.2E-05	9	4.3E-05	5.2E-05	6.3E-05	7.7E-05	9.4E-05	1.2E-04	1.5E-04	1.8E-04	2.2E-04	2.7E-04	3.5E-04	5.1E-04	8.1E-04	1.0E-03	1.1E-03	1.0E-03	3.4E-04	2.6E-04	2.3E-04	4.0E-04	3.5E-04
4A	104-51-8	#N/A	1.16E+00	1.7E-05	10	1.8E-05	2.1E-05	2.4E-05	2.8E-05	3.2E-05	3.9E-05	4.7E-05	5.9E-05	7.5E-05	1.0E-04	1.5E-04	2.4E-04	4.9E-04	9.2E-04	1.2E-03	1.3E-03	3.8E-04	2.7E-04	2.5E-04	3.6E-04	2.5E-04
4B	104-51-8	#N/A	2.03E+00	2.9E-05	11	1.3E-04	2.0E-04	3.2E-04	6.6E-04	1.5E-03	2.3E-03	2.7E-03	2.8E-03	2.9E-03	2.8E-03	2.8E-03	2.8E-03	2.5E-03	1.8E-03	1.2E-03	8.2E-04	2.8E-04	2.6E-04	1.9E-04	5.8E-04	8.3E-04
4C	104-51-8	#N/A	1.94E+00	2.8E-05	12	1.0E-04	1.3E-04	1.7E-04	2.3E-04	3.0E-04	3.8E-04	4.4E-04	4.7E-04	4.8E-04	4.7E-04	4.7E-04	4.6E-04	4.4E-04	4.2E-04	3.9E-04	3.5E-04	1.9E-04	1.6E-04	1.4E-04	2.4E-04	2.7E-04
4D	104-51-8	#N/A	4.04E+00	5.8E-05	13	1.1E-03	1.9E-03	2.4E-03	2.5E-03	1.9E-03	1.4E-03	1.0E-03	8.2E-04	6.9E-04	5.9E-04	5.2E-04	4.7E-04	4.3E-04	4.0E-04	3.7E-04	3.4E-04	2.3E-04	2.1E-04	2.0E-04	2.8E-04	3.2E-04
7	104-51-8	#N/A	1.67E-01	2.4E-06	17	5.4E-06	6.4E-06	7.4E-06	8.4E-06	9.5E-06	1.1E-05	1.2E-05	1.3E-05	1.4E-05	1.5E-05	1.5E-05	1.5E-05	1.5E-05	1.4E-05	1.3E-05	1.2E-05	8.2E-06	7.4E-06	6.9E-06	9.9E-06	1.1E-05
HAUL_N	104-51-8	#N/A	2.93E-01	4.2E-06	6	1.3E-05	1.7E-05	2.5E-05	4.1E-05	8.7E-05	3.1E-04	3.7E-04	2.5E-04	1.9E-04	1.5E-04	1.3E-04	1.2E-04	1.0E-04	9.2E-05	8.0E-05	7.0E-05	3.7E-05	3.2E-05	2.9E-05	4.9E-05	5.8E-05
2_2	135-98-8	#N/A	5.85E-01	8.4E-06	8	1.6E-05	1.8E-05	1.9E-05	1.9E-05	2.0E-05	2.6E-05	3.1E-05	3.3E-05	3.3E-05	3.2E-05	3.1E-05	3.0E-05	2.8E-05	2.6E-05	2.3E-05	2.1E-05	1.4E-05	1.4E-05	1.1E-05	2.2E-05	2.8E-05
3	135-98-8	#N/A	7.18E+00	1.0E-04	9	2.0E-04	2.4E-04	2.9E-04	3.6E-04	4.4E-04	5.5E-04	6.8E-04	8.5E-04	1.0E-03	1.3E-03	1.6E-03	2.4E-03	3.8E-03	4.8E-03	5.2E-03	4.9E-03	1.6E-03	1.2E-03	1.1E-03	1.9E-03	1.6E-03
4A	135-98-8	#N/A	5.42E+00	7.8E-05	10	8.7E-05	9.9E-05	1.1E-04	1.3E-04	1.5E-04	1.8E-04	2.2E-04	2.8E-04	3.5E-04	4.7E-04	6.8E-04	1.1E-03	2.3E-03	4.3E-03	5.6E-03	6.1E-03	1.8E-03	1.3E-03	1.2E-03	1.7E-03	1.2E-03
4B	135-98-8	#N/A	9.52E+00	1.4E-04	11	6.2E-04	9.2E-04	1.5E-03	3.1E-03	7.1E-03	1.1E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.2E-02	8.2E-03	5.5E-03	3.8E-03	1.3E-03	1.2E-03	9.0E-04	2.7E-03	3.9E-03
4C	135-98-8	#N/A	9.08E+00	1.3E-04	12	4.9E-04	6.2E-04	8.1E-04	1.1E-03	1.4E-03	1.8E-03	2.0E-03	2.2E-03	2.2E-03	2.2E-03	2.2E-03	2.1E-03	2.1E-03	2.0E-03	1.8E-03	1.6E-03	8.8E-04	7.6E-04	6.8E-04	1.1E-03	1.3E-03
4D	135-98-8	#N/A	1.89E+01	2.7E-04	13	5.1E-03	8.9E-03	1.1E-02	1.2E-02	9.1E-03	6.4E-03	4.8E-03	3.9E-03	3.2E-03	2.7E-03	2.4E-03	2.2E-03	2.0E-03	1.9E-03	1.7E-03	1.6E-03	1.1E-03	9.9E-04	9.2E-04	1.3E-03	1.5E-03
7	135-98-8	#N/A	7.81E-01	1.1E-05	17	2.6E-05	3.0E-05	3.5E-05	3.9E-05	4.4E-05	5.0E-05	5.6E-05	6.2E-05	6.6E-05	6.9E-05	7.0E-05	7.0E-05	6.9E-05	6.6E-05	6.2E-05	5.8E-05	3.8E-05	3.5E-05	3.2E-05	4.6E-05	5.0E-05
B_7	135-98-8	#N/A	2.03E-10	2.9E-15	35	3.2E-14	4.7E-14	7.5E-14	1.4E-13	2.7E-13	4.0E-13	4.1E-13	3.2E-13	2.2E-13	1.5E-13	1.0E-13	7.7E-14	5.8E-14	4.4E-14	3.4E-14	2.8E-14	1.4E-14	1.4E-14	1.0E-14	2.7E-14	3.9E-14
HAUL_N	135-98-8	#N/A	1.41E+00	2.0E-05	6	6.1E-05	8.3E-05	1.2E-04	2.0E-04	4.2E-04	1.5E-03	1.8E-03	1.2E-03	9.0E-04	7.3E-04	6.3E-04	5.6E-04	5.0E-04	4.4E-04	3.9E-04	3.4E-04	1.8E-04	1.5E-04	1.4E-04	2.3E-04	2.8E-04
3	1985-57-5	#N/A	1.29E+01	1.9E-04	9	3.6E-04	4.4E-04	5.3E-04	6.4E-04	7.9E-04	9.9E-04	1.2E-03	1.5E-03	1.9E-03	2.3E-03	2.9E-03	4.3E-03	6.8E-03	8.6E-03	9.3E-03	8.8E-03	2.8E-03	2.2E-03	1.9E-03	3.4E-03	2.9E-03
4A	1985-57-5	#N/A	9.73E+00	1.4E-04	10	1.6E-04	1.8E-04	2.0E-04	2.3E-04	2.7E-04	3.3E-04	4.0E-04	4.9E-04	6.3E-04	8.5E-04	1.2E-03	2.0E-03	4.1E-03	7.7E-03	1.0E-02	1.1E-02	3.2E-03	2.3E-03	2.1E-03	3.0E-03	2.1E-03
4B	1985-57-5	#N/A	1.71E+01	2.5E-04	11	1.1E-03	1.6E-03	2.7E-03	5.6E-03	1.3E-02	1.9E-02	2.3E-02	2.4E-02	2.4E-02	2.4E-02	2.4E-02	2.3E-02	2.1E-02	1.5E-02	9.9E-03	6.9E-03	2.4E-03	2.2E-03	1.6E-03	4.8E-03	6.9E-03
4C	1985-57-5	#N/A	1.63E+01	2.3E-04	12	8.8E-04	1.1E-03	1.5E-03	1.9E-03	2.5E-03	3.2E-03	3.7E-03	3.9E-03	4.0E-03	4.0E-03	3.9E-03	3.8E-03	3.7E-03	3.5E-03	3.2E-03	2.9E-03	1.6E-03	1.4E-03	1.2E-03	2.0E-03	2.3E-03
4D	1985-57-5	#N/A	3.39E+01	4.9E-04	13	9.1E-03	1.6E-02	2.1E-02	2.1E-02	1.6E-02	1.2E-02	8.7E-03	6.9E-03	5.8E-03	4.9E-03	4.4E-03	4.0E-03	3.6E-03	3.4E-03	3.1E-03	2.9E-03	2.0E-03	1.8E-03	1.6E-03	2.4E-03	2.7E-03
7	1985-57-5	#N/A	1.40E+00	2.0E-05	17	4.6E-05	5.4E-05	6.2E-05	7.0E-05	7.9E-05	9.0E-05	1.0E-04	1.1E-04	1.2E-04	1.2E-04	1.3E-04	1.3E-04	1.2E-04	1.2E-04	1.1E-04	1.0E-04	6.9E-05	6.3E-05	5.8E-05	8.3E-05	8.9E-05
HAUL_N	1985-57-5	#N/A	2.46E+00	3.5E-05	6	1.1E-04	1.4E-04	2.1E-04	3.5E-04	7.3E-04	2.6E-03	3.1E-03	2.1E-03	1.6E-03	1.3E-03	1.1E-03	9.8E-04	8.8E-04	7.8E-04	6.8E-04	5.9E-04	3.2E-04	2.7E-04	2.4E-04	4.1E-04	4.9E-04
3	2049-95-8	#N/A	3.96E+01	5.7E-04	9	1.1E-03	1.3E-03	1.6E-03	2.0E-03	2.4E-03	3.0E-03	3.8E-03	4.7E-03	5.7E-03	7.0E-03	9.1E-03	1.3E-02	2.1E-02	2.6E-02	2.9E-02	2.7E-02	8.7E-03	6.7E-03	5.9E-03	1.0E-02	9.1E-03
4A	2049-95-8	#N/A	2.99E+01	4.3E-04	10	4.8E-04	5.5E-04	6.2E-04	7.2E-04	8.4E-04	1.0E-03	1.2E-03	1.5E-03	1.9E-03	2.6E-03	3.8E-03	6.2E-03	1.3E-02	2.4E-02	3.1E-02	3.3E-02	9.8E-03	7.1E-03	6.4E-03	9.2E-03	6.5E-03
4B	2049-95-8	#N/A	5.25E+01	7.6E-04	11	3.4E-03	5.1E-03	8.3E-03	1.7E-02	3.9E-02	5.9E-02	7.0E-02	7.3E-02	7.4E-02	7.3E-02	7.3E-02	7.2E-02	6.4E-02	4.5E-02	3.0E-02	2.1E-02	7.3E-03	6.8E-03	5.0E-03	1.5E-02	2.1E-02
4C	2049-95-8	#N/A	5.01E+01	7.2E-04	12	2.7E-03	3.4E-03	4.5E-03	6.0E-03	7.8E-03	9.7E-03	1.1E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.1E-02	1.1E-02	9.9E-03	8.9E-03	4.8E-03	4.2E-03	3.7E-03	6.2E-03	7.0E-03
4D	2049-95-8	#N/A	1.04E+02	1.5E-03	13	2.8E-02	4.9E-02	6.3E-02	6.6E-02	5.0E-02	3.5E-02	2.7E-02	2.1E-02	1.8E-02	1.5E-02	1.3E-02	1.2E-02	1.1E-02	1.0E-02	9.6E-03	8.9E-03	6.0E-03	5.4E-03	5.1E-03	7.3E-03	8.4E-03
7	2049-95-8	#N/A	4.31E+00	6.2E-05	17	1.4E-04	1.7E-04	1.9E-04	2.2E-04	2.4E-04	2.8E-04	3.1E-04	3.4E-04	3.6E-04	3.8E-04	3.9E-04	3.9E-04	3.8E-04	3.6E-04	3.4E-04	3.2E-04	2.1E-04	1.9E-04	1.8E-04	2.6E-04	2.7E-04
HAUL_N	2049-95-8	#N/A	7.56E+00	1.1E-04	6	3.3E-04	4.4E-04	6.5E-04	1.1E-03	2.2E-03	8.0E-03	9.6E-03	6.6E-03	4.9E-03	3.9E-03	3.4E-03	3.0E-03	2.7E-03	2.4E-03	2.1E-03	1.8E-03	9.7E-04	8.3E-04	7.4E-04	1.3E-03	1.5E-03
3	22975-62-8	#N/A	1.15E+01	1.7E-04	9	3.2E-04	3.9E-04	4.7E-04	5.7E-04	7.1E-04	8.8E-04	1.1E-03	1.4E-03	1.7E-03	2.0E-03	2.6E-03	3.8E-03	6.0E-03	7.6E-03	8.3E-03	7.8E-03	2.5E-03	2.0E-03	1.7E-03	3.0E-03	2.6E-03
4A	22975-62-8	#N/A	8.69E+00	1.2E-04	10	1.4E-04	1.6E-04	1.8E-04	2.1E-04	2.4E-04	2.9E-04	3.5E-04	4.4E-04	5.7E-04	7.6E-04	1.1E-03	1.8E-03	3.7E-03	6.9E-03	8.9E-03	9.7E-03	2.9E-03	2.1E-03	1.8E-03	2.7E-03	1.9E-03
4B	22975-62-8	#N/A	1.53E+01	2.2E-04	11	9.9E-04	1.5E-03	2.4E-03	5.0E-03	1.1E-02	1.7E-02	2.0E-02	2.1E-02	2.2E-02	2.1E-02	2.1E-02	2.1E-02	1.9E-02	1.3E-02	8.8E-03	6.2E-03	2.1E-03	2.0E-03	1.4E-03	4.3E-03	6.2E-03
4C	22975-62-8	#N/A	1.46E+01	2.1E-04	12	7.9E-04	9.9E-04	1.3E-03	1.7E-03	2.3E-03	2.8E-03	3.3E-03	3.5E-03	3.6E-03	3.6E-03	3.5E-03	3.4E-03	3.3E-03	3.1E-03	2.9E-03	2.6E-03	1.4E-03	1.2E-03	1.1E-03	1.8E-03	2.0E-03
4D	22975-62-8	#N/A	3.03E+01	4.4E-04	13	8.1E-03	1.4E-02	1.8E-02	1.9E-02	1.5E-02	1.0E-02	7.8E-03	6.2E-03	5.1E-03	4.4E-03	3.9E-03	3.5E-03	3.3E-03	3.0E-03	2.8E-03	2.6E-03	1.8E-03	1.6E-03	1.5E-03	2.1E-03	2.4E-03
7	22975-62-8	#N/A	1.25E+00	1.8E-05	17	4.1E-05	4.8E-05	5.5E-05	6.3E-05	7.1E-05	8.0E-05	9.0E-05	9.9E-05	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.0E-04	9.3E-05	6.2E-05	5.6E-05	5.2E-05	7.4E-05	8.0E-05

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

						Concentration (ug/m3)																			
Source	**CAS**	**Chemical**	**lbs/year**	**g/s**	**Source No.**	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	22975-62-8	#N/A	2.20E+00	3.2E-05	6	9.6E-05	1.3E-04	1.9E-04	3.1E-04	6.6E-04	2.3E-03	2.8E-03	1.9E-03	1.4E-03	1.1E-03	9.8E-04	8.7E-04	7.8E-04	6.9E-04	6.1E-04	5.3E-04	2.8E-04	2.4E-04	2.2E-04	3.7E-04	4.4E-04
3	2719-52-0	#N/A	2.61E+01	3.8E-04	9	7.4E-04	8.9E-04	1.1E-03	1.3E-03	1.6E-03	2.0E-03	2.5E-03	3.1E-03	3.8E-03	4.6E-03	6.0E-03	8.7E-03	1.4E-02	1.7E-02	1.9E-02	1.8E-02	5.7E-03	4.4E-03	3.9E-03	6.8E-03	6.0E-03
4A	2719-52-0	#N/A	1.97E+01	2.8E-04	10	3.2E-04	3.6E-04	4.1E-04	4.7E-04	5.5E-04	6.6E-04	8.1E-04	1.0E-03	1.3E-03	1.7E-03	2.5E-03	4.1E-03	8.3E-03	1.6E-02	2.0E-02	2.2E-02	6.5E-03	4.7E-03	4.2E-03	6.1E-03	4.3E-03
4B	2719-52-0	#N/A	3.47E+01	5.0E-04	11	2.2E-03	3.3E-03	5.5E-03	1.1E-02	2.6E-02	3.9E-02	4.6E-02	4.9E-02	4.9E-02	4.8E-02	4.8E-02	4.8E-02	4.2E-02	3.0E-02	2.0E-02	1.4E-02	4.8E-03	4.5E-03	3.3E-03	9.8E-03	1.4E-02
4C	2719-52-0	#N/A	3.31E+01	4.8E-04	12	1.8E-03	2.3E-03	3.0E-03	3.9E-03	5.1E-03	6.4E-03	7.4E-03	8.0E-03	8.2E-03	8.1E-03	7.9E-03	7.8E-03	7.6E-03	7.1E-03	6.6E-03	5.9E-03	3.2E-03	2.8E-03	2.5E-03	4.1E-03	4.6E-03
4D	2719-52-0	#N/A	6.88E+01	9.9E-04	13	1.8E-02	3.2E-02	4.2E-02	4.3E-02	3.3E-02	2.3E-02	1.8E-02	1.4E-02	1.2E-02	1.0E-02	8.9E-03	8.1E-03	7.4E-03	6.8E-03	6.3E-03	5.8E-03	4.0E-03	3.6E-03	3.3E-03	4.8E-03	5.5E-03
7	2719-52-0	#N/A	2.84E+00	4.1E-05	17	9.3E-05	1.1E-04	1.3E-04	1.4E-04	1.6E-04	1.8E-04	2.0E-04	2.2E-04	2.4E-04	2.5E-04	2.6E-04	2.6E-04	2.5E-04	2.4E-04	2.3E-04	2.1E-04	1.4E-04	1.3E-04	1.2E-04	1.7E-04	1.8E-04
HAUL_N	2719-52-0	#N/A	4.99E+00	7.2E-05	6	2.2E-04	2.9E-04	4.3E-04	7.0E-04	1.5E-03	5.3E-03	6.4E-03	4.3E-03	3.2E-03	2.6E-03	2.2E-03	2.0E-03	1.8E-03	1.6E-03	1.4E-03	1.2E-03	6.4E-04	5.5E-04	4.9E-04	8.3E-04	1.0E-03
3	2958-76-1	#N/A	2.95E+02	4.2E-03	9	8.3E-03	1.0E-02	1.2E-02	1.5E-02	1.8E-02	2.3E-02	2.8E-02	3.5E-02	4.2E-02	5.2E-02	6.7E-02	9.8E-02	1.5E-01	2.0E-01	2.1E-01	2.0E-01	6.4E-02	5.0E-02	4.4E-02	7.7E-02	6.7E-02
4A	2958-76-1	#N/A	2.23E+02	3.2E-03	10	3.6E-03	4.1E-03	4.6E-03	5.4E-03	6.2E-03	7.5E-03	9.1E-03	1.1E-02	1.5E-02	1.9E-02	2.8E-02	4.6E-02	9.4E-02	1.8E-01	2.3E-01	2.5E-01	7.3E-02	5.3E-02	4.7E-02	6.9E-02	4.8E-02
4B	2958-76-1	#N/A	3.91E+02	5.6E-03	11	2.5E-02	3.8E-02	6.2E-02	1.3E-01	2.9E-01	4.4E-01	5.2E-01	5.5E-01	5.5E-01	5.4E-01	5.4E-01	5.4E-01	4.8E-01	3.4E-01	2.3E-01	1.6E-01	5.4E-02	5.1E-02	3.7E-02	1.1E-01	1.6E-01
4C	2958-76-1	#N/A	3.73E+02	5.4E-03	12	2.0E-02	2.5E-02	3.3E-02	4.4E-02	5.8E-02	7.2E-02	8.4E-02	9.0E-02	9.2E-02	9.1E-02	9.0E-02	8.8E-02	8.5E-02	8.1E-02	7.4E-02	6.7E-02	3.6E-02	3.1E-02	2.8E-02	4.6E-02	5.2E-02
4D	2958-76-1	#N/A	7.77E+02	1.1E-02	13	2.1E-01	3.7E-01	4.7E-01	4.9E-01	3.7E-01	2.6E-01	2.0E-01	1.6E-01	1.3E-01	1.1E-01	1.0E-01	9.1E-02	8.4E-02	7.7E-02	7.1E-02	6.6E-02	4.5E-02	4.1E-02	3.8E-02	5.4E-02	6.2E-02
7	2958-76-1	#N/A	3.21E+01	4.6E-04	17	1.0E-03	1.2E-03	1.4E-03	1.6E-03	1.8E-03	2.1E-03	2.3E-03	2.5E-03	2.7E-03	2.8E-03	2.9E-03	2.9E-03	2.8E-03	2.7E-03	2.6E-03	2.4E-03	1.6E-03	1.4E-03	1.3E-03	1.9E-03	2.0E-03
HAUL_N	2958-76-1	#N/A	5.60E+01	8.1E-04	6	2.4E-03	3.3E-03	4.8E-03	7.9E-03	1.7E-02	6.0E-02	7.1E-02	4.9E-02	3.6E-02	2.9E-02	2.5E-02	2.2E-02	2.0E-02	1.8E-02	1.5E-02	1.3E-02	7.2E-03	6.2E-03	5.5E-03	9.3E-03	1.1E-02
3	3875-51-2	#N/A	1.48E+02	2.1E-03	9	4.2E-03	5.0E-03	6.1E-03	7.4E-03	9.1E-03	1.1E-02	1.4E-02	1.8E-02	2.1E-02	2.6E-02	3.4E-02	5.0E-02	7.8E-02	9.9E-02	1.1E-01	1.0E-01	3.2E-02	2.5E-02	2.2E-02	3.9E-02	3.4E-02
4A	3875-51-2	#N/A	1.12E+02	1.6E-03	10	1.8E-03	2.0E-03	2.3E-03	2.7E-03	3.1E-03	3.8E-03	4.6E-03	5.7E-03	7.3E-03	9.8E-03	1.4E-02	2.3E-02	4.7E-02	8.9E-02	1.2E-01	1.3E-01	3.7E-02	2.7E-02	2.4E-02	3.5E-02	2.4E-02
4B	3875-51-2	#N/A	1.97E+02	2.8E-03	11	1.3E-02	1.9E-02	3.1E-02	6.4E-02	1.5E-01	2.2E-01	2.6E-01	2.8E-01	2.8E-01	2.7E-01	2.7E-01	2.7E-01	2.4E-01	1.7E-01	1.1E-01	8.0E-02	2.7E-02	2.6E-02	1.9E-02	5.6E-02	8.0E-02
4C	3875-51-2	#N/A	1.88E+02	2.7E-03	12	1.0E-02	1.3E-02	1.7E-02	2.2E-02	2.9E-02	3.6E-02	4.2E-02	4.5E-02	4.6E-02	4.6E-02	4.5E-02	4.4E-02	4.3E-02	4.1E-02	3.7E-02	3.4E-02	1.8E-02	1.6E-02	1.4E-02	2.3E-02	2.6E-02
4D	3875-51-2	#N/A	3.91E+02	5.6E-03	13	1.0E-01	1.8E-01	2.4E-01	2.5E-01	1.9E-01	1.3E-01	1.0E-01	8.0E-02	6.6E-02	5.7E-02	5.0E-02	4.6E-02	4.2E-02	3.9E-02	3.6E-02	3.3E-02	2.3E-02	2.0E-02	1.9E-02	2.7E-02	3.1E-02
7	3875-51-2	#N/A	1.62E+01	2.3E-04	17	5.3E-04	6.2E-04	7.2E-04	8.1E-04	9.2E-04	1.0E-03	1.2E-03	1.3E-03	1.4E-03	1.4E-03	1.5E-03	1.5E-03	1.4E-03	1.4E-03	1.3E-03	1.2E-03	7.9E-04	7.2E-04	6.7E-04	9.6E-04	1.0E-03
HAUL_N	3875-51-2	#N/A	2.71E+01	3.9E-04	6	1.2E-03	1.6E-03	2.3E-03	3.8E-03	8.1E-03	2.9E-02	3.5E-02	2.4E-02	1.7E-02	1.4E-02	1.2E-02	1.1E-02	9.6E-03	8.5E-03	7.5E-03	6.5E-03	3.5E-03	3.0E-03	2.7E-03	4.5E-03	5.4E-03
3	496-10-6	#N/A	7.42E+02	1.1E-02	9	2.1E-02	2.5E-02	3.0E-02	3.7E-02	4.6E-02	5.7E-02	7.1E-02	8.8E-02	1.1E-01	1.3E-01	1.7E-01	2.5E-01	3.9E-01	4.9E-01	5.4E-01	5.1E-01	1.6E-01	1.3E-01	1.1E-01	1.9E-01	1.7E-01
4A	496-10-6	#N/A	5.60E+02	8.1E-03	10	8.9E-03	1.0E-02	1.2E-02	1.3E-02	1.6E-02	1.9E-02	2.3E-02	2.8E-02	3.6E-02	4.9E-02	7.1E-02	1.2E-01	2.4E-01	4.4E-01	5.8E-01	6.3E-01	1.8E-01	1.3E-01	1.2E-01	1.7E-01	1.2E-01
4B	496-10-6	#N/A	9.84E+02	1.4E-02	11	6.4E-02	9.5E-02	1.6E-01	3.2E-01	7.4E-01	1.1E+00	1.3E+00	1.4E+00	1.4E+00	1.4E+00	1.4E+00	1.3E+00	1.2E+00	8.5E-01	5.7E-01	4.0E-01	1.4E-01	1.3E-01	9.3E-02	2.8E-01	4.0E-01
4C	496-10-6	#N/A	9.39E+02	1.3E-02	12	5.1E-02	6.4E-02	8.4E-02	1.1E-01	1.5E-01	1.8E-01	2.1E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.2E-01	2.1E-01	2.0E-01	1.9E-01	1.7E-01	9.1E-02	7.8E-02	7.0E-02	1.2E-01	1.3E-01
4D	496-10-6	#N/A	1.95E+03	2.8E-02	13	5.2E-01	9.2E-01	1.2E+00	1.2E+00	9.4E-01	6.6E-01	5.0E-01	4.0E-01	3.3E-01	2.8E-01	2.5E-01	2.3E-01	2.1E-01	1.9E-01	1.8E-01	1.7E-01	1.1E-01	1.0E-01	9.5E-02	1.4E-01	1.6E-01
7	496-10-6	#N/A	8.07E+01	1.2E-03	17	2.6E-03	3.1E-03	3.6E-03	4.1E-03	4.6E-03	5.2E-03	5.8E-03	6.4E-03	6.8E-03	7.1E-03	7.3E-03	7.2E-03	7.1E-03	6.8E-03	6.4E-03	6.0E-03	4.0E-03	3.6E-03	3.4E-03	4.8E-03	5.1E-03
HAUL_N	496-10-6	#N/A	1.40E+02	2.0E-03	6	6.1E-03	8.3E-03	1.2E-02	2.0E-02	4.2E-02	1.5E-01	1.8E-01	1.2E-01	9.0E-02	7.3E-02	6.3E-02	5.6E-02	5.0E-02	4.4E-02	3.9E-02	3.3E-02	1.8E-02	1.5E-02	1.4E-02	2.3E-02	2.8E-02
3	527-53-7	#N/A	3.37E+01	4.8E-04	9	9.5E-04	1.1E-03	1.4E-03	1.7E-03	2.1E-03	2.6E-03	3.2E-03	4.0E-03	4.8E-03	6.0E-03	7.7E-03	1.1E-02	1.8E-02	2.2E-02	2.4E-02	2.3E-02	7.4E-03	5.7E-03	5.0E-03	8.8E-03	7.7E-03
4A	527-53-7	#N/A	2.55E+01	3.7E-04	10	4.1E-04	4.6E-04	5.3E-04	6.1E-04	7.1E-04	8.5E-04	1.0E-03	1.3E-03	1.7E-03	2.2E-03	3.2E-03	5.3E-03	1.1E-02	2.0E-02	2.6E-02	2.9E-02	8.4E-03	6.0E-03	5.4E-03	7.9E-03	5.5E-03
4B	527-53-7	#N/A	4.47E+01	6.4E-04	11	2.9E-03	4.3E-03	7.1E-03	1.5E-02	3.4E-02	5.0E-02	5.9E-02	6.3E-02	6.3E-02	6.2E-02	6.2E-02	6.1E-02	5.4E-02	3.9E-02	2.6E-02	1.8E-02	6.2E-03	5.8E-03	4.2E-03	1.3E-02	1.8E-02
4C	527-53-7	#N/A	4.26E+01	6.1E-04	12	2.3E-03	2.9E-03	3.8E-03	5.1E-03	6.6E-03	8.3E-03	9.6E-03	1.0E-02	1.1E-02	1.0E-02	1.0E-02	1.0E-02	9.8E-03	9.2E-03	8.5E-03	7.6E-03	4.1E-03	3.6E-03	3.2E-03	5.3E-03	6.0E-03
4D	527-53-7	#N/A	8.87E+01	1.3E-03	13	2.4E-02	4.2E-02	5.4E-02	5.6E-02	4.3E-02	3.0E-02	2.3E-02	1.8E-02	1.5E-02	1.3E-02	1.1E-02	1.0E-02	9.5E-03	8.8E-03	8.2E-03	7.5E-03	5.1E-03	4.6E-03	4.3E-03	6.2E-03	7.1E-03
7	527-53-7	#N/A	3.67E+00	5.3E-05	17	1.2E-04	1.4E-04	1.6E-04	1.8E-04	2.1E-04	2.3E-04	2.6E-04	2.9E-04	3.1E-04	3.2E-04	3.3E-04	3.3E-04	3.2E-04	3.1E-04	2.9E-04	2.7E-04	1.8E-04	1.6E-04	1.5E-04	2.2E-04	2.3E-04
HAUL_N	527-53-7	#N/A	6.44E+00	9.3E-05	6	2.8E-04	3.8E-04	5.5E-04	9.1E-04	1.9E-03	6.9E-03	8.2E-03	5.6E-03	4.1E-03	3.3E-03	2.9E-03	2.6E-03	2.3E-03	2.0E-03	1.8E-03	1.5E-03	8.2E-04	7.1E-04	6.3E-04	1.1E-03	1.3E-03
3	5364-83-0	#N/A	9.87E+02	1.4E-02	9	2.8E-02	3.4E-02	4.0E-02	4.9E-02	6.1E-02	7.6E-02	9.4E-02	1.2E-01	1.4E-01	1.7E-01	2.3E-01	3.3E-01	5.2E-01	6.6E-01	7.1E-01	6.7E-01	2.2E-01	1.7E-01	1.5E-01	2.6E-01	2.3E-01
4A	5364-83-0	#N/A	7.46E+02	1.1E-02	10	1.2E-02	1.4E-02	1.6E-02	1.8E-02	2.1E-02	2.5E-02	3.0E-02	3.8E-02	4.9E-02	6.5E-02	9.4E-02	1.5E-01	3.2E-01	5.9E-01	7.7E-01	8.4E-01	2.5E-01	1.8E-01	1.6E-01	2.3E-01	1.6E-01
4B	5364-83-0	#N/A	1.31E+03	1.9E-02	11	8.5E-02	1.3E-01	2.1E-01	4.3E-01	9.8E-01	1.5E+00	1.7E+00	1.8E+00	1.8E+00	1.8E+00	1.8E+00	1.8E+00	1.6E+00	1.1E+00	7.6E-01	5.3E-01	1.8E-01	1.7E-01	1.2E-01	3.7E-01	5.3E-01
4C	5364-83-0	#N/A	1.25E+03	1.8E-02	12	6.8E-02	8.5E-02	1.1E-01	1.5E-01	1.9E-01	2.4E-01	2.8E-01	3.0E-01	3.1E-01	3.1E-01	3.0E-01	2.9E-01	2.9E-01	2.7E-01	2.5E-01	2.2E-01	1.2E-01	1.0E-01	9.3E-02	1.6E-01	1.8E-01
4D	5364-83-0	#N/A	2.60E+03	3.7E-02	13	7.0E-01	1.2E+00	1.6E+00	1.6E+00	1.3E+00	8.8E-01	6.7E-01	5.3E-01	4.4E-01	3.8E-01	3.4E-01	3.0E-01	2.8E-01	2.6E-01	2.4E-01	2.2E-01	1.5E-01	1.4E-01	1.3E-01	1.8E-01	2.1E-01
7	5364-83-0	#N/A	1.07E+02	1.5E-03	17	3.5E-03	4.1E-03	4.8E-03	5.4E-03	6.1E-03	6.9E-03	7.7E-03	8.5E-03	9.1E-03	9.5E-03	9.7E-03	9.6E-03	9.4E-03	9.0E-03	8.6E-03	8.0E-03	5.3E-03	4.8E-03	4.5E-03	6.4E-03	6.8E-03
HAUL_N	5364-83-0	#N/A	1.87E+02	2.7E-03	6	8.1E-03	1.1E-02	1.6E-02	2.6E-02	5.6E-02	2.0E-01	2.4E-01	1.6E-01	1.2E-01	9.7E-02	8.3E-02	7.4E-02	6.6E-02	5.9E-02	5.1E-02	4.5E-02	2.4E-02	2.1E-02	1.8E-02	3.1E-02	3.7E-02
3	54340-86-2	#N/A	5.17E+00	7.4E-05	9	1.5E-04	1.8E-04	2.1E-04	2.6E-04	3.2E-04	4.0E-04	4.9E-04	6.1E-04	7.4E-04	9.2E-04	1.2E-03	1.7E-03	2.7E-03	3.4E-03	3.7E-03	3.5E-03	1.1E-03	8.8E-04	7.7E-04	1.3E-03	1.2E-03
4A	54340-86-2	#N/A	3.91E+00	5.6E-05	10	6.2E-05	7.1E-05	8.1E-05	9.4E-05	1.1E-04	1.3E-04	1.6E-04	2.0E-04	2.5E-04	3.4E-04	4.9E-04	8.1E-04	1.7E-03	3.1E-03	4.0E-03	4.4E-03	1.3E-03	9.3E-04	8.3E-04	1.2E-03	8.5E-04
4B	54340-86-2	#N/A	6.86E+00	9.9E-05	11	4.5E-04	6.6E-04	1.1E-03	2.2E-03	5.1E-03	7.7E-03	9.1E-03	9.6E-03	9.7E-03	9.5E-03	9.5E-03	9.4E-03	8.3E-03	5.9E-03	4.0E-03	2.8E-03	9.5E-04	8.9E-04	6.5E-04	1.9E-03	2.8E-03
4C	54340-86-2	#N/A	6.55E+00	9.4E-05	12	3.5E-04	4.5E-04	5.8E-04	7.8E-04	1.0E-03	1.3E-03	1.5E-03	1.6E-03	1.6E-03	1.6E-03	1.6E-03	1.5E-03	1.5E-03	1.4E-03	1.3E-03	1.2E-03	6.3E-04	5.5E-04	4.9E-04	8.1E-04	9.2E-04
4D	54340-86-2	#N/A	1.36E+01	2.0E-04	13	3.6E-03	6.4E-03	8.2E-03	8.6E-03	6.6E-03	4.6E-03	3.5E-03	2.8E-03	2.3E-03	2.0E-03	1.8E-03	1.6E-03	1.5E-03	1.4E-03	1.3E-03	1.2E-03	7.9E-04	7.1E-04	6.6E-04	9.5E-04	1.1E-03
7	54340-86-2	#N/A	5.63E-01	8.1E-06	17	1.8E-05	2.2E-05	2.5E-05	2.8E-05	3.2E-05	3.6E-05	4.0E-05	4.5E-05	4.8E-05	5.0E-05	5.1E-05	5.1E-05	4.9E-05	4.7E-05	4.5E-05	4.2E-05	2.8E-05	2.5E-05	2.3E-05	3.3E-05	3.6E-05
HAUL_N	54340-86-2	#N/A	9.93E-01	1.4E-05	6	4.3E-05	5.8E-05	8.5E-05	1.4E-04	3.0E-04	1.1E-03	1.3E-03	8.6E-04	6.4E-04	5.1E-04	4.4E-04	3.9E-04	3.5E-04	3.1E-04	2.7E-04	2.4E-04	1.3E-04	1.1E-04	9.8E-05	1.7E-04	2.0E-04
3	5557-93-7	#N/A	1.79E+01	2.6E-04	9	5.0E-04	6.1E-04	7.3E-04	8.9E-04	1.1E-03	1.4E-03	1.7E-03	2.1E-03	2.6E-03	3.2E-03	4.1E-03	6.0E-03	9.4E-03	1.2E-02	1.3E-02	1.2E-02	3.9E-03	3.0E-03	2.7E-03	4.7E-03	4.1E-03
4A	5557-93-7	#N/A	1.35E+01	1.9E-04	10	2.2E-04	2.5E-04	2.8E-04	3.2E-04	3.8E-04	4.5E-04	5.5E-04	6.9E-04	8.8E-04	1.2E-03	1.7E-03	2.8E-03	5.7E-03	1.1E-02	1.4E-02	1.5E-02	4.5E-03	3.2E-03	2.9E-03	4.2E-03	2.9E-03
4B	5557-93-7	#N/A	2.37E+01	3.4E-04	11	1.5E-03	2.3E-03	3.8E-03	7.7E-03	1.8E-02	2.6E-02	3.1E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	2.9E-02	2.0E-02	1.4E-02	9.6E-03	3.3E-03	3.1E-03	2.2E-03	6.7E-03	9.6E-03
4C	5557-93-7	#N/A	2.26E+01	3.3E-04	12	1.2E-03	1.5E-03	2.0E-03	2.7E-03	3.5E-03	4.4E-03	5.1E-03	5.5E-03	5.6E-03	5.5E-03	5.4E-03	5.3E-03	5.2E-03	4.9E-03	4.5E-03	4.0E-03	2.2E-03	1.9E-03	1.7E-03	2.8E-03	3.2E-03
4D	5557-93-7	#N/A	4.71E+01	6.8E-04	13	1.3E-02	2.2E-02	2.9E-02	3.0E-02	2.3E-02	1.6E-02	1.2E-02	9.6E-03	8.0E-03	6.8E-03	6.1E-03	5.5E-03	5.1E-03	4.7E-03	4.3E-03	4.0E-03	2.7E-03	2.5E-03	2.3E-03	3.3E-03	3.8E-03
7	5557-93-7	#N/A	1.95E+00	2.8E-05	17	6.4E-05	7.5E-05	8.6E-05	9.8E-05	1.1E-04	1.2E-04	1.4E-04	1.5E-04	1.7E-04	1.7E-04	1.8E-04	1.7E-04	1.7E-04	1.6E-04	1.6E-04	1.4E-04	9.6E-05	8.7E-05	8.1E-05	1.2E-04	1.2E-04

ASCON Health Risk Assessment

Table 8c. Supplemental HRA Concentration Calculations - Alternative 6

Source	CAS	Chemical		lbs/year	g/s	Source No.	Concentration (ug/m3)																				
							587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
HAUL_N	5557-93-7		#N/A	3.44E+00	5.0E-05	6	1.5E-04	2.0E-04	3.0E-04	4.8E-04	1.0E-03	3.7E-03	4.4E-03	3.0E-03	2.2E-03	1.8E-03	1.5E-03	1.4E-03	1.2E-03	1.1E-03	9.5E-04	8.2E-04	4.4E-04	3.8E-04	3.4E-04	5.7E-04	6.9E-04
3	591-78-6		#N/A	8.23E-03	1.2E-07	9	2.3E-07	2.8E-07	3.4E-07	4.1E-07	5.1E-07	6.3E-07	7.8E-07	9.7E-07	1.2E-06	1.5E-06	1.9E-06	2.7E-06	4.3E-06	5.5E-06	6.0E-06	5.6E-06	1.8E-06	1.4E-06	1.2E-06	2.1E-06	1.9E-06
4A	591-78-6		#N/A	6.22E-03	8.9E-08	10	9.9E-08	1.1E-07	1.3E-07	1.5E-07	1.7E-07	2.1E-07	2.5E-07	3.2E-07	4.0E-07	5.4E-07	7.8E-07	1.3E-06	2.6E-06	4.9E-06	6.4E-06	7.0E-06	2.0E-06	1.5E-06	1.3E-06	1.9E-06	1.3E-06
4B	591-78-6		#N/A	1.09E-02	1.6E-07	11	7.1E-07	1.1E-06	1.7E-06	3.5E-06	8.2E-06	1.2E-05	1.4E-05	1.5E-05	1.5E-05	1.5E-05	1.5E-05	1.5E-05	1.3E-05	9.4E-06	6.3E-06	4.4E-06	1.5E-06	1.4E-06	1.0E-06	3.1E-06	4.4E-06
4C	591-78-6		#N/A	1.04E-02	1.5E-07	12	5.6E-07	7.1E-07	9.3E-07	1.2E-06	1.6E-06	2.0E-06	2.3E-06	2.5E-06	2.6E-06	2.5E-06	2.5E-06	2.5E-06	2.4E-06	2.2E-06	2.1E-06	1.9E-06	1.0E-06	8.7E-07	7.8E-07	1.3E-06	1.5E-06
4D	591-78-6		#N/A	2.17E-02	3.1E-07	13	5.8E-06	1.0E-05	1.3E-05	1.4E-05	1.0E-05	7.4E-06	5.5E-06	4.4E-06	3.7E-06	3.1E-06	2.8E-06	2.5E-06	2.3E-06	2.2E-06	2.0E-06	1.8E-06	1.3E-06	1.1E-06	1.1E-06	1.5E-06	1.7E-06
7	591-78-6		#N/A	8.96E-04	1.3E-08	17	2.9E-08	3.5E-08	4.0E-08	4.5E-08	5.1E-08	5.7E-08	6.4E-08	7.1E-08	7.6E-08	7.9E-08	8.1E-08	8.0E-08	7.9E-08	7.5E-08	7.1E-08	6.6E-08	4.4E-08	4.0E-08	3.7E-08	5.3E-08	5.7E-08
HAUL_N	591-78-6		#N/A	1.58E-03	2.3E-08	6	6.9E-08	9.3E-08	1.4E-07	2.2E-07	4.7E-07	1.7E-06	2.0E-06	1.4E-06	1.0E-06	8.2E-07	7.1E-07	6.3E-07	5.6E-07	5.0E-07	4.3E-07	3.8E-07	2.0E-07	1.7E-07	1.6E-07	2.6E-07	3.2E-07
2_2	75-15-0		#N/A	8.43E-01	1.2E-05	8	2.3E-05	2.6E-05	2.7E-05	2.8E-05	2.9E-05	3.8E-05	4.5E-05	4.7E-05	4.8E-05	4.6E-05	4.5E-05	4.3E-05	4.0E-05	3.7E-05	3.3E-05	3.0E-05	2.0E-05	2.1E-05	1.6E-05	3.2E-05	4.1E-05
3	941-60-6		#N/A	2.73E+00	3.9E-05	9	7.7E-05	9.3E-05	1.1E-04	1.4E-04	1.7E-04	2.1E-04	2.6E-04	3.2E-04	3.9E-04	4.8E-04	6.3E-04	9.1E-04	1.4E-03	1.8E-03	2.0E-03	1.9E-03	6.0E-04	4.6E-04	4.1E-04	7.1E-04	6.3E-04
4A	941-60-6		#N/A	2.07E+00	3.0E-05	10	3.3E-05	3.8E-05	4.3E-05	5.0E-05	5.8E-05	6.9E-05	8.4E-05	1.0E-04	1.3E-04	1.8E-04	2.6E-04	4.3E-04	8.7E-04	1.6E-03	2.1E-03	2.3E-03	6.8E-04	4.9E-04	4.4E-04	6.4E-04	4.5E-04
4B	941-60-6		#N/A	3.63E+00	5.2E-05	11	2.4E-04	3.5E-04	5.7E-04	1.2E-03	2.7E-03	4.0E-03	4.8E-03	5.1E-03	5.1E-03	5.0E-03	5.0E-03	5.0E-03	4.4E-03	3.1E-03	2.1E-03	1.5E-03	5.0E-04	4.7E-04	3.4E-04	1.0E-03	1.5E-03
4C	941-60-6		#N/A	3.46E+00	5.0E-05	12	1.9E-04	2.4E-04	3.1E-04	4.1E-04	5.4E-04	6.7E-04	7.8E-04	8.4E-04	8.6E-04	8.5E-04	8.3E-04	8.2E-04	7.9E-04	7.5E-04	6.9E-04	6.2E-04	3.3E-04	2.9E-04	2.6E-04	4.3E-04	4.9E-04
4D	941-60-6		#N/A	7.20E+00	1.0E-04	13	1.9E-03	3.4E-03	4.4E-03	4.5E-03	3.5E-03	2.4E-03	1.8E-03	1.5E-03	1.2E-03	1.0E-03	9.3E-04	8.4E-04	7.7E-04	7.2E-04	6.6E-04	6.1E-04	4.2E-04	3.8E-04	3.5E-04	5.0E-04	5.8E-04
7	941-60-6		#N/A	2.98E-01	4.3E-06	17	9.7E-06	1.1E-05	1.3E-05	1.5E-05	1.7E-05	1.9E-05	2.1E-05	2.4E-05	2.5E-05	2.6E-05	2.7E-05	2.7E-05	2.6E-05	2.5E-05	2.4E-05	2.2E-05	1.5E-05	1.3E-05	1.2E-05	1.8E-05	1.9E-05
HAUL_N	941-60-6		#N/A	5.32E-01	7.6E-06	6	2.3E-05	3.1E-05	4.6E-05	7.5E-05	1.6E-04	5.7E-04	6.8E-04	4.6E-04	3.4E-04	2.8E-04	2.4E-04	2.1E-04	1.9E-04	1.7E-04	1.5E-04	1.3E-04	6.8E-05	5.8E-05	5.2E-05	8.9E-05	1.1E-04
Verification Calculations - DO NOT PRINT																											
BENZ_1	92-87-5		#N/A	1.11E-01	1.6E-06	36	1.7E-06	1.9E-06	2.0E-06	2.1E-06	2.2E-06	2.5E-06	2.8E-06	3.3E-06	4.0E-06	4.8E-06	5.8E-06	7.0E-06	8.4E-06	9.8E-06	1.1E-05	1.3E-05	1.3E-05	1.0E-05	1.2E-05	8.3E-06	6.7E-06

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 4

CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	Total Concentration (ug/m3)																				
					587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
103-65-1	n-Propylbenzene		1.0E+03		2.6E-03	4.7E-03	6.1E-03	7.0E-03	7.8E-03	8.8E-03	9.5E-03	9.7E-03	9.8E-03	9.8E-03	9.9E-03	1.0E-02	1.0E-02	1.0E-02	9.9E-03	9.4E-03	3.4E-03	2.8E-03	2.4E-03	4.3E-03	4.6E-03
11096-82-5	Aroclor 1260	2.0E+00			2.6E-08	5.1E-08	8.1E-08	8.4E-08	9.0E-08	1.2E-07	1.2E-07	1.0E-07	8.8E-08	8.0E-08	7.7E-08	7.6E-08	7.8E-08	8.0E-08	8.5E-08	9.3E-08	3.6E-08	2.8E-08	2.5E-08	3.9E-08	3.9E-08
11097-69-1	Aroclor 1254	2.0E+00			1.0E-08	2.0E-08	3.2E-08	3.3E-08	3.5E-08	4.7E-08	4.9E-08	4.1E-08	3.5E-08	3.2E-08	3.0E-08	3.0E-08	3.1E-08	3.2E-08	3.4E-08	3.7E-08	1.4E-08	1.1E-08	1.0E-08	1.5E-08	1.5E-08
12672-29-6	Aroclor 1248	2.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12674-11-2	Aroclor 1016	7.0E-02			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
496-10-6	OCTAHYDROINDENE		7.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.2E-08	2.3E-08	3.6E-08	3.8E-08	4.0E-08	5.3E-08	5.6E-08	4.6E-08	4.0E-08	3.6E-08	3.4E-08	3.4E-08	3.5E-08	3.6E-08	3.8E-08	4.2E-08	1.6E-08	1.3E-08	1.1E-08	1.8E-08	1.7E-08
53469-21-9	Aroclor 1242	2.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
591-78-6	2-Hexanone		3.0E+01		5.6E-06	1.0E-05	1.3E-05	1.5E-05	1.7E-05	1.9E-05	2.0E-05	2.1E-05	2.1E-05	2.1E-05	2.1E-05	2.2E-05	2.2E-05	2.2E-05	2.1E-05	2.0E-05	7.4E-06	6.0E-06	5.2E-06	9.3E-06	1.0E-05
Total	Total/Max Risk (70-Year Average)																								

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

[a] The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Page 5-16. Office of Environmental Health and Hazard Assessment. August 2003.
[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 4

					Cancer Risk																				
CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
103-65-1	n-Propylbenzene		1.0E+03																						
11096-82-5	Aroclor 1260	2.0E+00			2.0E-11	3.8E-11	6.1E-11	6.3E-11	6.7E-11	8.9E-11	9.3E-11	7.7E-11	6.7E-11	6.0E-11	5.8E-11	5.7E-11	5.8E-11	6.0E-11	6.4E-11	7.0E-11	2.7E-11	2.1E-11	1.9E-11	2.9E-11	2.9E-11
11097-69-1	Aroclor 1254	2.0E+00			7.7E-12	1.5E-11	2.4E-11	2.5E-11	2.7E-11	3.5E-11	3.7E-11	3.1E-11	2.6E-11	2.4E-11	2.3E-11	2.3E-11	2.3E-11	2.4E-11	2.5E-11	2.8E-11	1.1E-11	8.4E-12	7.5E-12	1.2E-11	1.2E-11
12672-29-6	Aroclor 1248	2.0E+00																							
12674-11-2	Aroclor 1016	7.0E-02																							
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03																						
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02																						
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02																						
496-10-6	OCTAHYDROINDENE		7.0E+00																						
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.5E-12	3.0E-12	4.8E-12	5.0E-12	5.3E-12	7.0E-12	7.3E-12	6.1E-12	5.2E-12	4.7E-12	4.5E-12	4.5E-12	4.6E-12	4.7E-12	5.0E-12	5.5E-12	2.1E-12	1.7E-12	1.5E-12	2.3E-12	2.3E-12
53469-21-9	Aroclor 1242	2.0E+00																							
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02																						
591-78-6	2-Hexanone		3.0E+01																						
Total	Total/Max Risk (70-Year Average)				**4.1E-13**	**8.1E-13**	**1.3E-12**	**1.3E-12**	**1.4E-12**	**1.9E-12**	**2.0E-12**	**1.6E-12**	**1.4E-12**	**1.3E-12**	**1.2E-12**	**1.2E-12**	**1.2E-12**	**1.3E-12**	**1.4E-12**	**1.5E-12**	**5.7E-13**	**4.5E-13**	**4.0E-13**	**6.2E-13**	**6.2E-13**

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

[a] The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Page 5-16. Office of Environmental Health and Hazard Assessment. August 2003.
[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 4

					Chronic Risk																				
CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
103-65-1	n-Propylbenzene		1.0E+03		2.6E-06	4.7E-06	6.1E-06	7.0E-06	7.8E-06	8.8E-06	9.5E-06	9.7E-06	9.8E-06	9.8E-06	9.9E-06	1.0E-05	1.0E-05	1.0E-05	9.9E-06	9.4E-06	3.4E-06	2.8E-06	2.4E-06	4.3E-06	4.6E-06
11096-82-5	Aroclor 1260	2.0E+00																							
11097-69-1	Aroclor 1254	2.0E+00																							
12672-29-6	Aroclor 1248	2.0E+00																							
12674-11-2	Aroclor 1016	7.0E-02																							
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03																						
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02																						
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02																						
496-10-6	OCTAHYDROINDENE		7.0E+00																						
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.7E-08	3.3E-08	5.2E-08	5.4E-08	5.7E-08	7.6E-08	8.0E-08	6.6E-08	5.7E-08	5.1E-08	4.9E-08	4.9E-08	5.0E-08	5.1E-08	5.5E-08	6.0E-08	2.3E-08	1.8E-08	1.6E-08	2.5E-08	2.5E-08
53469-21-9	Aroclor 1242	2.0E+00																							
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02																						
591-78-6	2-Hexanone		3.0E+01		1.9E-07	3.4E-07	4.4E-07	5.0E-07	5.6E-07	6.3E-07	6.8E-07	7.0E-07	7.1E-07	7.1E-07	7.1E-07	7.3E-07	7.4E-07	7.3E-07	7.1E-07	6.8E-07	2.5E-07	2.0E-07	1.7E-07	3.1E-07	3.3E-07
Total	Total/Max Risk (70-Year Average)				2.8E-06	5.0E-06	6.6E-06	7.6E-06	8.4E-06	9.5E-06	1.0E-05	1.0E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.0E-05	3.7E-06	3.0E-06	2.6E-06	4.6E-06	5.0E-06

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

[a] The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Page 5-16. Office of Environmental Health and Hazard Assessment. August 2003.
[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 6

					Total Concentration (ug/m3)																				
CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355	338
103-65-1	n-Propylbenzene		1.0E+03		9.9E-03	1.7E-02	2.2E-02	2.6E-02	2.8E-02	3.2E-02	3.4E-02	3.3E-02	3.2E-02	3.1E-02	3.2E-02	3.3E-02	3.4E-02	3.3E-02	3.1E-02	2.8E-02	1.0E-02	8.6E-03	7.4E-03	1.4E-02	1.5E-02
11096-82-5	Aroclor 1260	2.0E+00			4.2E-07	7.7E-07	1.4E-06	1.4E-06	1.3E-06	1.5E-06	1.5E-06	1.3E-06	1.2E-06	1.1E-06	1.1E-06	1.1E-06	1.1E-06	1.1E-06	1.0E-06	9.3E-07	3.8E-07	3.2E-07	2.8E-07	4.8E-07	5.3E-07
11097-69-1	Aroclor 1254	2.0E+00			3.0E-05	5.4E-05	9.9E-05	1.0E-04	9.4E-05	1.1E-04	1.1E-04	9.5E-05	8.6E-05	8.1E-05	7.9E-05	7.9E-05	8.0E-05	7.7E-05	7.2E-05	6.6E-05	2.7E-05	2.2E-05	2.0E-05	3.4E-05	3.8E-05
12672-29-6	Aroclor 1248	2.0E+00			2.5E-05	4.6E-05	8.5E-05	8.6E-05	8.0E-05	9.1E-05	9.3E-05	8.1E-05	7.4E-05	6.9E-05	6.7E-05	6.7E-05	6.8E-05	6.6E-05	6.1E-05	5.6E-05	2.3E-05	1.9E-05	1.7E-05	2.9E-05	3.2E-05
12674-11-2	Aroclor 1016	7.0E-02			7.8E-06	1.4E-05	2.6E-05	2.6E-05	2.5E-05	2.8E-05	2.9E-05	2.5E-05	2.3E-05	2.1E-05	2.1E-05	2.1E-05	2.1E-05	2.0E-05	1.9E-05	1.7E-05	7.0E-06	5.9E-06	5.1E-06	9.0E-06	9.9E-06
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03		3.6E-02	6.0E-02	7.9E-02	9.3E-02	1.0E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.1E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.1E-01	1.0E-01	3.8E-02	3.1E-02	2.7E-02	4.9E-02	5.4E-02
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02		4.0E-05	7.2E-05	1.3E-04	1.3E-04	1.2E-04	1.4E-04	1.4E-04	1.3E-04	1.1E-04	1.1E-04	1.0E-04	1.0E-04	1.1E-04	1.0E-04	9.6E-05	8.7E-05	3.5E-05	3.0E-05	2.6E-05	4.5E-05	5.0E-05
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02		1.4E-01	2.2E-01	3.0E-01	3.5E-01	3.9E-01	4.3E-01	4.6E-01	4.5E-01	4.4E-01	4.3E-01	4.3E-01	4.5E-01	4.6E-01	4.5E-01	4.2E-01	3.8E-01	1.4E-01	1.2E-01	1.0E-01	1.9E-01	2.0E-01
496-10-6	OCTAHYDROINDENE		7.0E+00		6.8E-01	1.1E+00	1.5E+00	1.7E+00	1.9E+00	2.2E+00	2.3E+00	2.2E+00	2.2E+00	2.1E+00	2.2E+00	2.2E+00	2.3E+00	2.2E+00	2.1E+00	1.9E+00	7.1E-01	5.9E-01	5.0E-01	9.3E-01	1.0E+00
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		8.3E-08	1.5E-07	2.8E-07	2.8E-07	2.6E-07	3.0E-07	3.0E-07	2.7E-07	2.4E-07	2.3E-07	2.2E-07	2.2E-07	2.2E-07	2.1E-07	2.0E-07	1.8E-07	7.4E-08	6.2E-08	5.5E-08	9.5E-08	1.1E-07
53469-21-9	Aroclor 1242	2.0E+00			2.0E-05	3.7E-05	6.8E-05	6.9E-05	6.5E-05	7.4E-05	7.5E-05	6.6E-05	6.0E-05	5.6E-05	5.4E-05	5.4E-05	5.5E-05	5.3E-05	5.0E-05	4.5E-05	1.8E-05	1.5E-05	1.3E-05	2.4E-05	2.6E-05
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02		9.0E-01	1.5E+00	2.0E+00	2.3E+00	2.6E+00	2.9E+00	3.1E+00	3.0E+00	2.9E+00	2.9E+00	2.9E+00	3.0E+00	3.1E+00	3.0E+00	2.8E+00	2.5E+00	9.4E-01	7.8E-01	6.7E-01	1.2E+00	1.3E+00
591-78-6	2-Hexanone		3.0E+01		7.5E-06	1.3E-05	1.6E-05	1.9E-05	2.1E-05	2.4E-05	2.6E-05	2.5E-05	2.4E-05	2.4E-05	2.4E-05	2.5E-05	2.6E-05	2.5E-05	2.3E-05	2.1E-05	7.9E-06	6.5E-06	5.6E-06	1.0E-05	1.1E-05
Total	Total/Max Risk																								

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

[a] The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Page 5-16. Office of Environmental Health and Hazard Assessment. August 2003.
[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 6

					Cancer Risk																			
CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429	355
103-65-1	n-Propylbenzene		1.0E+03																					
11096-82-5	Aroclor 1260	2.0E+00			3.2E-10	5.8E-10	1.1E-09	1.1E-09	1.0E-09	1.1E-09	1.2E-09	1.0E-09	9.2E-10	8.6E-10	8.4E-10	8.4E-10	8.5E-10	8.2E-10	7.6E-10	7.0E-10	2.8E-10	2.4E-10	2.1E-10	3.6E-10
11097-69-1	Aroclor 1254	2.0E+00			2.2E-08	4.1E-08	7.5E-08	7.6E-08	7.0E-08	8.0E-08	8.2E-08	7.2E-08	6.5E-08	6.1E-08	5.9E-08	5.9E-08	6.0E-08	5.8E-08	5.4E-08	4.9E-08	2.0E-08	1.7E-08	1.5E-08	2.6E-08
12672-29-6	Aroclor 1248	2.0E+00			1.9E-08	3.5E-08	6.4E-08	6.5E-08	6.0E-08	6.8E-08	7.0E-08	6.1E-08	5.5E-08	5.2E-08	5.0E-08	5.1E-08	5.1E-08	4.9E-08	4.6E-08	4.2E-08	1.7E-08	1.4E-08	1.3E-08	2.2E-08
12674-11-2	Aroclor 1016	7.0E-02			2.1E-10	3.8E-10	6.9E-10	7.0E-10	6.5E-10	7.4E-10	7.5E-10	6.6E-10	6.0E-10	5.6E-10	5.4E-10	5.5E-10	5.5E-10	5.3E-10	5.0E-10	4.5E-10	1.8E-10	1.5E-10	1.4E-10	2.4E-10
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03																					
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02																					
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02																					
496-10-6	OCTAHYDROINDENE		7.0E+00																					
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.1E-11	2.0E-11	3.6E-11	3.7E-11	3.4E-11	3.9E-11	4.0E-11	3.5E-11	3.2E-11	3.0E-11	2.9E-11	2.9E-11	2.9E-11	2.8E-11	2.6E-11	2.4E-11	9.8E-12	8.2E-12	7.2E-12	1.3E-11
53469-21-9	Aroclor 1242	2.0E+00			1.5E-08	2.8E-08	5.1E-08	5.2E-08	4.9E-08	5.5E-08	5.6E-08	4.9E-08	4.5E-08	4.2E-08	4.1E-08	4.1E-08	4.1E-08	4.0E-08	3.7E-08	3.4E-08	1.4E-08	1.2E-08	1.0E-08	1.8E-08
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02																					
591-78-6	2-Hexanone		3.0E+01																					
Total	Total/Max Risk				**8.2E-10**	**1.5E-09**	**2.7E-09**	**2.8E-09**	**2.6E-09**	**2.9E-09**	**3.0E-09**	**2.6E-09**	**2.4E-09**	**2.2E-09**	**2.2E-09**	**2.2E-09**	**2.2E-09**	**2.1E-09**	**2.0E-09**	**1.8E-09**	**7.4E-10**	**6.1E-10**	**5.4E-10**	**9.4E-10**

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

[a] The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Page 5-16. Office of Environmental Health and Hazard Assessment. August 2003.
[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 6

						Chronic Risk																		
CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	338	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	404	405	429
103-65-1	n-Propylbenzene		1.0E+03			9.9E-06	1.7E-05	2.2E-05	2.6E-05	2.8E-05	3.2E-05	3.4E-05	3.3E-05	3.2E-05	3.1E-05	3.2E-05	3.3E-05	3.4E-05	3.3E-05	3.1E-05	2.8E-05	1.0E-05	8.6E-06	7.4E-06
11096-82-5	Aroclor 1260	2.0E+00			4.0E-10																			
11097-69-1	Aroclor 1254	2.0E+00			2.8E-08																			
12672-29-6	Aroclor 1248	2.0E+00			2.4E-08																			
12674-11-2	Aroclor 1016	7.0E-02			2.6E-10																			
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03			3.6E-05	6.0E-05	7.9E-05	9.3E-05	1.0E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.1E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.1E-04	1.0E-04	3.8E-05	3.1E-05	2.7E-05
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02			2.0E-07	3.6E-07	6.6E-07	6.7E-07	6.2E-07	7.1E-07	7.2E-07	6.3E-07	5.7E-07	5.4E-07	5.2E-07	5.2E-07	5.3E-07	5.1E-07	4.8E-07	4.4E-07	1.8E-07	1.5E-07	1.3E-07
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02			6.8E-04	1.1E-03	1.5E-03	1.7E-03	1.9E-03	2.2E-03	2.3E-03	2.2E-03	2.2E-03	2.1E-03	2.2E-03	2.2E-03	2.3E-03	2.2E-03	2.1E-03	1.9E-03	7.1E-04	5.9E-04	5.0E-04
496-10-6	OCTAHYDROINDENE		7.0E+00			9.7E-02	1.6E-01	2.1E-01	2.5E-01	2.8E-01	3.1E-01	3.3E-01	3.2E-01	3.1E-01	3.1E-01	3.1E-01	3.2E-01	3.3E-01	3.2E-01	3.0E-01	2.7E-01	1.0E-01	8.4E-02	7.2E-02
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.4E-11	1.2E-07	2.2E-07	3.9E-07	4.0E-07	3.7E-07	4.3E-07	4.3E-07	3.8E-07	3.4E-07	3.2E-07	3.1E-07	3.1E-07	3.2E-07	3.1E-07	2.9E-07	2.6E-07	1.1E-07	8.9E-08	7.8E-08
53469-21-9	Aroclor 1242	2.0E+00			2.0E-08																			
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02			4.5E-03	7.5E-03	9.9E-03	1.2E-02	1.3E-02	1.4E-02	1.5E-02	1.5E-02	1.5E-02	1.4E-02	1.4E-02	1.5E-02	1.5E-02	1.5E-02	1.4E-02	1.3E-02	4.7E-03	3.9E-03	3.4E-03
591-78-6	2-Hexanone		3.0E+01			2.5E-07	4.2E-07	5.5E-07	6.4E-07	7.2E-07	8.1E-07	8.5E-07	8.3E-07	8.1E-07	7.9E-07	8.0E-07	8.2E-07	8.5E-07	8.3E-07	7.8E-07	7.1E-07	2.6E-07	2.2E-07	1.9E-07
Total	Total/Max Risk				1.0E-09	1.0E-01	1.7E-01	2.2E-01	2.6E-01	2.9E-01	3.3E-01	3.5E-01	3.4E-01	3.3E-01	3.2E-01	3.2E-01	3.4E-01	3.5E-01	3.4E-01	3.2E-01	2.9E-01	1.1E-01	8.8E-02	7.6E-02

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

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[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

ASCON Health Risk Assessment

Supplemental HRA Health Risk Calculations - Alternative 6

CAS	Chem Number	CPF (mg/kg-day)	RfC (ug/m^3)	Receptor -->	355	338
103-65-1	n-Propylbenzene		1.0E+03		1.4E-05	1.5E-05
11096-82-5	Aroclor 1260	2.0E+00				
11097-69-1	Aroclor 1254	2.0E+00				
12672-29-6	Aroclor 1248	2.0E+00				
12674-11-2	Aroclor 1016	7.0E-02				
2049-95-8	(1,1-DIMETHYLPROPYL)BENZENE		1.0E+03		4.9E-05	5.4E-05
2883-05-8	2-CYCLOHEXYLDECANE		2.0E+02		2.3E-07	2.5E-07
3875-51-2	1-METHYLETHYLCYCLOPENTANE		2.0E+02		9.3E-04	1.0E-03
496-10-6	OCTAHYDROINDENE		7.0E+00		1.3E-01	1.4E-01
5103-74-2	GAMMA-CHLORDANE	3.5E-01	7.0E-01		1.4E-07	1.5E-07
53469-21-9	Aroclor 1242	2.0E+00				
5364-83-0	(1-PROPENYL)CYCLOHEXANE		2.0E+02		6.2E-03	6.7E-03
591-78-6	2-Hexanone		3.0E+01		3.4E-07	3.8E-07
Total	Total/Max Risk				1.4E-01	1.5E-01

Exposure factors used to calculate contaminant intake[a]

exposure frequency (days/year)	350
exposure duration (years)	70
daily breathing rate (L/kg BW-day)	393.0
average body weight (kg)	70
averaging time(cancer) (days)	25550
averaging time(noncancer) (days)	25550

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[b] Cancer Potency Factor. Please refer to List of Chemicals for source
[c] Reference Concentration. Please refer to List of Chemicals for source

CONCENTRATION X TOXICITY SCREEN ANALYSIS - Rep_Cancer-70yr_DerO_Rec223_AllSrc_AllCh_ByRec_ByChem_Site - Notepad (ALT4 without DPFs)

			HERO CancerPF(Inh)	HERO ChronicREL(Inh)	Cancer SF Available in HARP?	Chronic HI Available in HARP?	Cancer Risk Calculated?	Chronic HI Calculated?	Reason for non-calculation of Risk or HI?	Are Tox Values Available?		Potential Understimation of:		Conc x Toxicity (for HARP Evaluated COCs)		Conc x Toxicity (for non-HARP Evaluated COCs)	
CAS Number	Chemical	GLC (ug/cu m)	(ug/cu m)^-1	ug/m^3						Cancer SF	Chronic HI	Cancer Risk	Chronic HI	Cancer	Non-Cancer	Cancer	Non-Cancer
1129	Lead cmpd(org)	1.30E-08	*	*	no	no	no	no		no	no	no	no	*	*		
1175	Silica, Crystln	2.94E-04	*	*	no	yes	no	yes		no	yes	no	no	*	*		
9901	DieselExhPM	7.84E-03	3.00E-04	5.00E+00	yes	yes	yes	yes		yes	yes	no	no	2.35E-06	1.57E-03		
50293	DDT	1.61E-10	9.70E-05	1.75E+00	no	no	no	no		yes	yes	yes	yes			1.56E-14	9.22E-11
50328	B[a]P	1.77E-08	1.10E-03	*	yes	no	yes	no		yes	no	no	no	1.94E-11	*		
53703	D[a,h]anthracen	5.37E-08	1.17E-03	*	yes	no	yes	no		yes	no	no	no	6.28E-11	*		
56553	B[a]anthracene	6.95E-10	1.11E-04	*	yes	no	yes	no		yes	no	no	no	7.74E-14	*		
57749	Chlordane	4.42E-08	3.40E-04	7.00E-01	yes	no	yes	no		yes	yes	no	yes	1.50E-11			6.31E-08
58899	Lindane	2.05E-09	3.10E-04	1.05E+00	yes	no	yes	no		yes	yes	no	yes	6.36E-13			1.95E-09
60571	Dieldrin	9.79E-10	4.60E-03	1.75E-01	no	no	no	no		yes	yes	yes	yes			4.50E-12	5.59E-09
67641	[D] Acetone	5.95E-06	*	3.50E+02	no	no	no	no		no	yes	no	yes	*			1.70E-08
71432	Benzene	3.44E-05	2.90E-05	6.00E+01	yes	yes	yes	yes		yes	yes	no	no	9.98E-10	5.73E-07		
72435	Methoxychlor	1.67E-10	*	1.75E+01	no	no	no	no		no	yes	no	yes	*			9.56E-12
72548	DDD	9.54E-11	6.90E-05	*	no	no	no	no		yes	no	yes	no		*	6.58E-15	
72559	DiClDiPhEthylen	2.46E-10	9.70E-05	*	yes	no	yes	no		yes	no	no	no	2.38E-14	*		
75092	Methylene Chlor	3.09E-06	1.00E-06	4.00E+02	yes	yes	yes	yes		yes	yes	no	no	3.09E-12	7.71E-09		
75252	Bromoform	0.00E+00	1.10E-06	7.00E+01	no	no	no	no		yes	yes	yes	yes			0.00E+00	0.00E+00
75354	Vinylid Chlorid	4.00E-06	*	7.00E+01	no	yes	no	yes		no	yes	no	no	*	5.71E-08		
75694	TriClFluorMetha	4.75E-05	*	7.00E+02	no	no	no	no		no	yes	no	yes	*			6.78E-08
76448	Heptachlor	9.15E-10	1.60E-03	1.75E+00	yes	no	yes	no		yes	yes	no	yes	1.46E-12			5.23E-10
78933	MEK	1.15E-06	*	5.00E+03	no	no	no	no		no	yes	no	yes	*			2.30E-10
79345	TetraClEthane	2.88E-07	5.80E-05	2.10E+02	yes	no	yes	no		yes	yes	no	yes	1.67E-11			1.37E-09
83329	Acenaphthene	1.39E-05	*	2.10E+02	no	no	no	no		no	yes	no	yes	*			6.64E-08
84742	DiButyl Phthal	1.34E-08	*	3.50E+02	no	no	no	no		no	yes	no	yes	*			3.83E-11
85018	Phenanthrene	1.50E-04	*	*	no	no	no	no		no	no	no	no	*	*		
85687	ButylBenzPhthal	1.99E-08	*	7.00E+02	no	no	no	no		no	yes	no	yes	*			2.84E-11
86306	N-NitrosDiPhAmi	0.00E+00	2.57E-06	*	yes	no	no	no	no emissions listed					0.00E+00	*		
86737	Fluorene	5.01E-06	*	1.40E+02	no	no	no	no		no	yes	no	yes	*			3.58E-08
91203	Naphthalene	3.30E-05	3.40E-05	3.00E+00	yes	yes	yes	yes		yes	yes	no	no	1.12E-09	1.10E-05		
91576	2MeNaphthalene	1.01E-04	*	7.00E+01	no	no	no	no		no	yes	no	yes	*			1.45E-06
91941	3,3'DiClBenzidn	2.59E-09	3.43E-04	*	yes	no	yes	no		yes	no	no	no	8.88E-13	*		
92875	Benzidine	8.20E-09	1.43E-01	1.05E+01	yes	no	yes	no		yes	yes	no	yes	1.17E-09			7.81E-10
95476	o-Xylene	3.74E-05	*	7.00E+02	no	yes	no	yes		no	yes	no	no	*	5.34E-08		
95501	1,2-DiClBenzene	3.61E-05	*	2.00E+02	no	no	no	no		no	yes	no	yes	*			1.81E-07
95636	1,2,4TriMeBenze	1.40E-04	*	5.95E+00	no	no	no	no		no	yes	no	yes	*			2.35E-05
96128	DBCP	3.03E-07	2.00E-03	2.00E-01	yes	no	yes	no		yes	yes	no	yes	6.06E-10			1.51E-06
98828	Cumene	4.86E-04	*	4.00E+02	no	no	no	no		no	yes	no	yes	*			1.21E-06
100414	Ethyl Benzene	2.40E-04	2.49E-06	2.00E+03	yes	yes	yes	yes		yes	yes	no	no	5.98E-10	1.20E-07		
100425	Styrene	1.41E-05	*	9.00E+02	no	yes	no	yes		no	yes	no	no	*	1.56E-08		
103231	Bis(2EHx)Adipat	0.00E+00	3.43E-07	2.10E+03	no	no	no	no		yes	yes	yes	yes			0.00E+00	0.00E+00
105679	2,4-DiMePhenol	0.00E+00	*	7.00E+01	no	no	no	no		no	yes	no	yes	*			0.00E+00

CONCENTRATION X TOXICITY SCREEN ANALYSIS - Rep_Cancer-70yr_DerO_Rec223_AllSrc_AllCh_ByRec_ByChem_Site - Notepad (ALT4 without DPFs)

CAS Number	Chemical	GLC (ug/cu m)	HERO CancerPF(Inh) (ug/cu m)^-1	HERO ChronicREL(Inh) ug/m^3	Cancer SF Available in HARP?	Chronic HI Available in HARP?	Cancer Risk Calculated?	Chronic HI Calculated?	Reason for non-calculation of Risk or HI?	Are Tox Values Available? Cancer SF	Are Tox Values Available? Chronic HI	Potential Understimation of: Cancer Risk	Potential Understimation of: Chronic HI	Conc x Toxicity (for HARP Evaluated COCs) Cancer	Conc x Toxicity (for HARP Evaluated COCs) Non-Cancer	Conc x Toxicity (for non-HARP Evaluated COCs) Cancer	Conc x Toxicity (for non-HARP Evaluated COCs) Non-Cancer
106423	p-Xylene	1.53E-05	*	*	no	yes	no	yes		no	yes	no	no	*	*		
106467	p-DiClBenzene	5.72E-11	1.10E-05	8.00E+02	yes	yes	yes	yes		yes	yes	no	no	6.29E-16	7.15E-14		
106934	EDB	6.85E-07	7.10E-05	8.00E-01	yes	yes	yes	yes		yes	yes	no	no	4.87E-11	8.57E-07		
108383	m-Xylene	1.63E-04	*	7.00E+02	no	yes	no	yes		no	yes	no	no	*	2.33E-07		
108883	Toluene	1.03E-04	*	3.00E+02	no	yes	no	yes		no	yes	no	no	*	3.43E-07		
108907	Chlorobenzn	4.80E-07	*	1.00E+03	no	yes	no	yes		no	yes	no	no	*	4.80E-10		
108952	Phenol	5.05E-09	*	2.00E+02	no	yes	no	yes		no	yes	no	no	*	2.53E-11		
117817	Di2-EthHxPhthal	5.01E-08	2.40E-06	7.70E+01	yes	no	yes	no		yes	yes	no	yes	1.20E-13			6.51E-10
120127	Anthracene	2.39E-06	*	1.05E+03	no	no	no	no		no	yes	no	yes	*			2.28E-09
120821	1,2,4TriClBenz	3.92E-08	*	2.00E+02	no	no	no	no		yes	yes	yes	yes			*	1.97E-10
127184	Perc	4.42E-06	5.90E-06	3.50E+01	yes	yes	yes	yes		yes	yes	no	no	2.61E-11	1.26E-07		
129000	Pyrene	9.14E-08	*	1.05E+02	no	no	no	no		no	yes	no	yes	*			8.71E-10
191242	B[g,h,i]perylen	1.06E-09	*	*	no	no	no	no		no	no	no	no	*	*		
193395	In[1,2,3-cd]pyr	6.85E-10	1.11E-04	*	yes	no	yes	no		yes	no	no	no	7.63E-14	*		
205992	B[b]fluoranthen	1.12E-09	1.10E-04	*	yes	no	yes	no		yes	no	no	no	1.23E-13	*		
206440	Fluoranthene	1.39E-08	*	1.40E+02	no	no	no	no		no	yes	no	yes	*			9.94E-11
207089	B[k]fluoranthen	4.42E-09	1.11E-04	*	yes	no	yes	no		yes	no	no	no	4.92E-13	*		
208968	Acenaphthylene	6.31E-11	*	*	no	no	no	no		no	no	no	no	*	*		
218019	Chrysene	8.68E-09	1.10E-05	*	yes	no	yes	no		yes	no	no	no	9.55E-14	*		
319846	alphaHexClCycHx	8.52E-11	7.70E-04	1.75E+00	yes	no	yes	no		yes	yes	no	yes	6.56E-14			4.87E-11
319857	betaHexClCycHx	2.37E-09	4.29E-04	7.00E-01	yes	no	yes	no		yes	yes	no	yes	1.01E-12			3.38E-09
1024573	HeptachloEpoxid	1.01E-09	1.57E-03	4.55E-02	no	no	no	no		yes	yes	yes	yes			1.59E-12	2.22E-08
1330207	Xylenes	2.01E-04	*	7.00E+02	no	yes	no	yes		no	yes	no	no	*	2.87E-07		
7439921	Lead	5.33E-06	*	*	yes	no	yes	no		yes	yes	no	yes	*			*
7439976	Mercury	6.63E-09	*	9.00E-02	no	yes	no	yes		no	yes	no	no	*	7.37E-08		
7440020	Nickel	1.17E-06	2.60E-04	5.01E-02	yes	yes	yes	yes		yes	yes	no	no	3.04E-10	2.34E-05		
7440224	Silver	1.45E-08	*	*	no	no	no	no		no	no	no	no	*	*		
7440280	Thallium	7.69E-07	*	*	no	no	no	no		no	no	no	no	*	*		
7440360	Antimony	7.30E-08	*	*	no	no	no	no		no	no	no	no	*	*		
7440382	Arsenic	3.11E-07	3.30E-03	1.50E-05	yes	yes	yes	yes		yes	yes	no	no	1.03E-09	2.07E-02		
7440393	Barium	1.16E-05	*	5.00E-01	no	no	no	no		no	yes	no	yes	*			2.32E-05
7440417	Beryllium	1.81E-08	2.40E-03	7.00E-03	yes	yes	yes	yes		yes	yes	no	no	4.35E-11	2.59E-06		
7440439	Cadmium	4.06E-08	4.29E-03	2.00E-02	yes	yes	yes	yes		yes	yes	no	no	1.74E-10	2.03E-06		
7440473	Chromium	1.68E-06	1.20E-02	*	no	no	no	no		no	no	no	no	(exclude)	*		
7440484	Cobalt	3.21E-07	2.80E-03	2.00E-02	no	no	no	no		yes	yes	yes	yes			8.99E-10	1.61E-05
7440508	Copper	1.55E-05	*	*	no	no	no	no		no	no	no	no	*	*		
7440622	Vanadium	1.47E-06	*	*	no	no	no	no		no	no	no	no	*	*		
7440666	Zinc	6.35E-06	*	*	no	no	no	no		no	no	no	no	*	*		
7782492	Selenium	1.47E-07	*	2.00E+01	no	yes	no	yes		no	yes	no	no	*	7.36E-09		
18540299	Cr(VI)	2.31E-08	1.46E-01	2.00E-01	yes	yes	yes	yes		yes	yes	no	no	3.36E-09	1.15E-07		
25551137	TriMeBenzns	4.69E-05	*	*	no	no	no	no		no	no	no	no	*	*		
				SUM (YES):			8	34		2.36E-06	2.23E-02	9.05E-10	6.74E-05				
				Total entries:			82	82									
				% of COCs not addressed:			9.80%	41.50%									

Conclusions - Cancer Risk:	Carcinogen (Toxicity x Concentration) screen sum for COCs evaluated by HARP exceeds the (Tox-Conc) screen sum for COCs omitted by HARP by 2000-fold (2.36E-6/9.05E-10). It is unnecessary to calculate cancer risks for the omitted COCs because their contribution to risk (approx. 0.04%) will be negligible.
Conclusions - Hazard Indices:	Hazard (Toxicity x Concentration) screen sum for COCs evaluated by HARP exceeds the (Tox-Conc) screen sum for COCs omitted by HARP by 300-fold (2.23E-2/6.74E-5). It is unnecessary to calculate HI's for the omitted COCs because their contribution to the total HI (<0.4%) will be negligible.

= risk or HI was calculated by HARP for this compound, but was not calculated by HERO because we typically do not calculate the risk/HI in this media.

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	7.61E-08	3.82E-03	6.39E-02
2	6.77E-08	3.47E-03	6.20E-02
3	6.37E-08	3.28E-03	5.97E-02
4	6.19E-08	3.20E-03	6.03E-02
5	6.04E-08	3.13E-03	5.79E-02
6	5.89E-08	3.05E-03	5.67E-02
7	5.73E-08	2.98E-03	5.42E-02
8	5.54E-08	2.88E-03	5.12E-02
9	5.33E-08	2.78E-03	4.99E-02
10	8.05E-08	4.08E-03	6.90E-02
11	7.43E-08	3.81E-03	6.60E-02
12	7.14E-08	3.69E-03	6.49E-02
13	6.91E-08	3.57E-03	6.29E-02
14	6.66E-08	3.46E-03	6.00E-02
15	6.42E-08	3.34E-03	5.76E-02
16	6.15E-08	3.21E-03	5.48E-02
17	5.87E-08	3.06E-03	5.23E-02
18	9.59E-08	4.84E-03	7.55E-02
19	8.73E-08	4.48E-03	7.33E-02
20	8.31E-08	4.29E-03	6.96E-02
21	7.96E-08	4.12E-03	6.82E-02
22	7.61E-08	3.95E-03	6.49E-02
23	7.24E-08	3.77E-03	6.09E-02
24	6.88E-08	3.58E-03	5.77E-02
25	6.53E-08	3.40E-03	5.49E-02
26	1.15E-07	5.80E-03	8.26E-02
27	1.04E-07	5.32E-03	8.07E-02
28	9.78E-08	5.05E-03	7.72E-02
29	9.28E-08	4.81E-03	7.33E-02
30	8.78E-08	4.56E-03	6.90E-02
31	8.27E-08	4.30E-03	6.49E-02
32	7.78E-08	4.05E-03	6.10E-02
33	7.34E-08	3.82E-03	5.75E-02
34	1.40E-07	7.11E-03	9.22E-02
35	1.26E-07	6.48E-03	8.95E-02
36	1.17E-07	6.07E-03	8.43E-02
37	1.10E-07	5.71E-03	7.93E-02
38	1.03E-07	5.35E-03	7.42E-02
39	9.58E-08	4.99E-03	6.88E-02
40	8.93E-08	4.65E-03	6.37E-02
41	8.37E-08	4.35E-03	5.97E-02
42	1.76E-07	8.99E-03	1.04E-01
43	1.58E-07	8.16E-03	9.90E-02

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	1.45E-07	7.52E-03	9.27E-02
45	1.33E-07	6.94E-03	8.53E-02
46	1.23E-07	6.40E-03	7.88E-02
47	1.13E-07	5.90E-03	7.26E-02
48	1.05E-07	5.44E-03	6.71E-02
49	9.68E-08	5.04E-03	6.16E-02
50	2.34E-07	1.21E-02	1.23E-01
51	2.07E-07	1.07E-02	1.12E-01
52	1.85E-07	9.68E-03	1.01E-01
53	1.67E-07	8.70E-03	9.21E-02
54	1.50E-07	7.85E-03	8.34E-02
55	1.37E-07	7.12E-03	7.63E-02
56	1.24E-07	6.48E-03	6.96E-02
57	1.14E-07	5.92E-03	6.45E-02
58	3.39E-07	1.77E-02	1.46E-01
59	2.89E-07	1.52E-02	1.27E-01
60	2.49E-07	1.31E-02	1.11E-01
61	2.15E-07	1.13E-02	9.81E-02
62	1.88E-07	9.86E-03	8.84E-02
63	1.67E-07	8.74E-03	7.96E-02
64	1.49E-07	7.79E-03	7.19E-02
65	1.34E-07	7.01E-03	6.59E-02
66	5.75E-07	3.07E-02	1.75E-01
67	4.40E-07	2.34E-02	1.44E-01
68	3.47E-07	1.83E-02	1.21E-01
69	2.84E-07	1.50E-02	1.06E-01
70	2.39E-07	1.26E-02	9.24E-02
71	2.06E-07	1.08E-02	8.23E-02
72	1.79E-07	9.38E-03	7.36E-02
73	1.58E-07	8.27E-03	6.73E-02
74	1.16E-06	6.44E-02	2.13E-01
75	6.78E-07	3.65E-02	1.61E-01
76	4.82E-07	2.57E-02	1.30E-01
77	3.72E-07	1.97E-02	1.10E-01
78	3.00E-07	1.58E-02	9.46E-02
79	2.50E-07	1.31E-02	8.33E-02
80	2.12E-07	1.12E-02	7.49E-02
81	1.84E-07	9.66E-03	6.81E-02
82	1.72E-06	9.47E-02	2.41E-01
83	9.51E-07	5.12E-02	1.70E-01
84	6.38E-07	3.41E-02	1.33E-01
85	4.70E-07	2.50E-02	1.11E-01
86	3.67E-07	1.94E-02	9.49E-02

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
87	2.97E-07	1.57E-02	8.35E-02
88	2.48E-07	1.30E-02	7.44E-02
89	2.11E-07	1.11E-02	6.68E-02
90	2.19E-06	1.20E-01	2.11E-01
91	1.17E-06	6.31E-02	1.52E-01
92	7.73E-07	4.13E-02	1.24E-01
93	5.59E-07	2.97E-02	1.07E-01
94	4.29E-07	2.27E-02	9.36E-02
95	3.43E-07	1.81E-02	8.29E-02
96	2.82E-07	1.49E-02	7.43E-02
97	2.38E-07	1.25E-02	6.76E-02
98	2.21E-06	1.20E-01	1.78E-01
99	1.27E-06	6.84E-02	1.39E-01
100	8.57E-07	4.58E-02	1.17E-01
101	6.25E-07	3.32E-02	1.02E-01
102	4.79E-07	2.54E-02	8.93E-02
103	3.82E-07	2.02E-02	7.98E-02
104	3.13E-07	1.65E-02	7.20E-02
105	2.62E-07	1.38E-02	6.58E-02
106	2.06E-06	1.11E-01	1.61E-01
107	1.28E-06	6.84E-02	1.33E-01
108	8.90E-07	4.75E-02	1.14E-01
109	6.61E-07	3.51E-02	1.01E-01
110	5.11E-07	2.71E-02	8.99E-02
111	4.09E-07	2.17E-02	8.09E-02
112	3.35E-07	1.77E-02	7.31E-02
113	2.80E-07	1.48E-02	6.67E-02
114	1.99E-06	1.08E-01	1.53E-01
115	1.25E-06	6.71E-02	1.30E-01
116	8.90E-07	4.74E-02	1.13E-01
117	6.70E-07	3.56E-02	9.94E-02
118	5.23E-07	2.77E-02	8.86E-02
119	4.22E-07	2.24E-02	7.89E-02
120	3.48E-07	1.84E-02	7.12E-02
121	2.92E-07	1.54E-02	6.44E-02
122	1.94E-06	1.05E-01	1.60E-01
123	1.21E-06	6.48E-02	1.34E-01
124	8.65E-07	4.60E-02	1.14E-01
125	6.57E-07	3.49E-02	9.91E-02
126	5.18E-07	2.75E-02	8.68E-02
127	4.21E-07	2.23E-02	7.80E-02
128	3.50E-07	1.85E-02	7.02E-02
129	2.95E-07	1.56E-02	6.32E-02

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
130	1.82E-06	9.74E-02	1.79E-01
131	1.12E-06	5.97E-02	1.35E-01
132	8.07E-07	4.29E-02	1.11E-01
133	6.20E-07	3.29E-02	9.56E-02
134	4.96E-07	2.63E-02	8.30E-02
135	4.08E-07	2.16E-02	7.42E-02
136	3.42E-07	1.81E-02	6.74E-02
137	2.91E-07	1.54E-02	6.08E-02
138	1.92E-07	9.68E-03	7.89E-02
139	2.17E-07	1.10E-02	8.84E-02
140	2.48E-07	1.26E-02	9.94E-02
141	2.89E-07	1.47E-02	1.15E-01
142	1.56E-07	8.03E-03	7.71E-02
143	1.76E-07	9.07E-03	8.54E-02
144	2.01E-07	1.04E-02	9.64E-02
145	2.33E-07	1.21E-02	1.09E-01
146	2.77E-07	1.44E-02	1.24E-01
147	3.40E-07	1.77E-02	1.43E-01
148	4.40E-07	2.29E-02	1.63E-01
149	5.92E-07	3.08E-02	1.83E-01
150	1.35E-07	7.03E-03	7.41E-02
151	1.52E-07	7.89E-03	8.17E-02
152	1.73E-07	8.98E-03	9.11E-02
153	1.99E-07	1.04E-02	1.02E-01
154	2.34E-07	1.22E-02	1.11E-01
155	2.79E-07	1.46E-02	1.25E-01
156	3.40E-07	1.77E-02	1.36E-01
157	4.16E-07	2.18E-02	1.43E-01
158	1.22E-07	6.33E-03	7.13E-02
159	1.36E-07	7.07E-03	7.81E-02
160	1.53E-07	7.99E-03	8.55E-02
161	1.75E-07	9.11E-03	9.24E-02
162	2.01E-07	1.05E-02	1.01E-01
163	2.34E-07	1.22E-02	1.08E-01
164	2.72E-07	1.42E-02	1.16E-01
165	3.17E-07	1.66E-02	1.19E-01
166	1.01E-07	5.25E-03	6.32E-02
167	1.11E-07	5.77E-03	6.83E-02
168	1.23E-07	6.42E-03	7.36E-02
169	1.38E-07	7.19E-03	7.93E-02
170	1.55E-07	8.08E-03	8.37E-02
171	1.76E-07	9.16E-03	9.02E-02
172	1.99E-07	1.04E-02	9.58E-02

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
173	2.24E-07	1.17E-02	1.01E-01
174	2.52E-07	1.32E-02	1.01E-01
175	9.31E-08	4.86E-03	6.04E-02
176	1.02E-07	5.31E-03	6.45E-02
177	1.12E-07	5.86E-03	6.92E-02
178	1.25E-07	6.51E-03	7.33E-02
179	1.39E-07	7.23E-03	7.78E-02
180	1.54E-07	8.05E-03	8.21E-02
181	1.71E-07	8.93E-03	8.53E-02
182	1.89E-07	9.87E-03	8.83E-02
183	2.07E-07	1.08E-02	8.84E-02
184	8.65E-08	4.52E-03	5.76E-02
185	9.44E-08	4.93E-03	6.09E-02
186	1.03E-07	5.39E-03	6.47E-02
187	1.13E-07	5.92E-03	6.67E-02
188	1.24E-07	6.50E-03	7.15E-02
189	1.36E-07	7.10E-03	7.45E-02
190	1.48E-07	7.72E-03	7.71E-02
191	1.60E-07	8.38E-03	7.84E-02
192	1.73E-07	9.09E-03	7.83E-02
193	8.09E-08	4.23E-03	5.45E-02
194	8.77E-08	4.58E-03	5.75E-02
195	9.52E-08	4.97E-03	5.98E-02
196	1.04E-07	5.41E-03	6.34E-02
197	1.12E-07	5.86E-03	6.55E-02
198	1.21E-07	6.33E-03	6.81E-02
199	1.30E-07	6.81E-03	7.00E-02
200	1.39E-07	7.29E-03	7.09E-02
201	1.48E-07	7.75E-03	7.08E-02
202	7.57E-08	3.95E-03	5.18E-02
203	8.15E-08	4.26E-03	5.39E-02
204	8.79E-08	4.59E-03	5.55E-02
205	9.46E-08	4.94E-03	5.87E-02
206	1.01E-07	5.30E-03	6.10E-02
207	1.08E-07	5.67E-03	6.19E-02
208	1.15E-07	6.02E-03	6.39E-02
209	1.22E-07	6.37E-03	6.45E-02
210	1.28E-07	6.69E-03	6.41E-02
211	1.43E-07	7.48E-03	6.29E-02
212	1.48E-07	7.74E-03	6.26E-02
213	1.53E-07	8.00E-03	6.19E-02
214	1.57E-07	8.22E-03	6.02E-02
215	1.60E-07	8.40E-03	5.81E-02

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 4

Receptor	Cancer Risk	Chronic Risk	Acute Risk
216	1.62E-07	8.51E-03	5.74E-02
217	1.03E-06	5.68E-02	2.20E-01
218	1.65E-06	9.36E-02	2.52E-01
219	2.06E-06	1.18E-01	2.77E-01
220	2.36E-06	1.32E-01	2.79E-01
221	2.79E-06	1.54E-01	2.95E-01
222	3.13E-06	1.77E-01	2.79E-01
223	3.20E-06	1.79E-01	2.26E-01
224	2.99E-06	1.64E-01	2.07E-01
225	2.78E-06	1.52E-01	1.91E-01
226	2.64E-06	1.44E-01	1.79E-01
227	2.58E-06	1.40E-01	1.71E-01
228	2.58E-06	1.40E-01	1.68E-01
229	2.60E-06	1.41E-01	1.71E-01
230	2.61E-06	1.41E-01	1.79E-01
231	2.59E-06	1.40E-01	1.98E-01
232	2.50E-06	1.34E-01	2.17E-01
233	1.19E-06	6.30E-02	1.39E-01
234	1.07E-06	5.67E-02	1.36E-01

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-06	99.38%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	1.75E-11	2.33E-10	3.49E-11	0.00E+00	0.00E+00	0.00E+00	2.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-10	5.81E-10	0.02%	B[a]P
6	5.60E-11	2.42E-10	3.63E-11	0.00E+00	0.00E+00	0.00E+00	3.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-10	6.41E-10	0.02%	D[a,h]anthracen
7	6.90E-14	9.17E-13	1.37E-13	0.00E+00	0.00E+00	0.00E+00	1.16E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-12	2.29E-12	0.00%	B[a]anthracene
8	1.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-11	0.00%	Chlordane
9	8.33E-13	1.37E-14	4.50E-14	0.00E+00	0.00E+00	0.00E+00	3.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-12	4.04E-12	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-09	0.04%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	3.08E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-14	0.00%	DiClDiPhEthylen
16	3.99E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-12	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	1.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-12	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	2.12E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-11	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-09	0.05%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	1.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-12	0.00%	3,3'DiClBenzidn
32	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-09	0.05%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	7.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-10	0.02%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	7.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-10	0.02%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
43	3.10E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-15	0.00%	p-DiClBenzene
44	6.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-11	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
49	1.63E-13	9.20E-16	3.03E-15	0.00E+00	0.00E+00	0.00E+00	6.28E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-13	7.95E-13	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	3.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-11	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	6.80E-14	9.04E-13	1.35E-13	0.00E+00	0.00E+00	0.00E+00	1.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-12	2.26E-12	0.00%	In[1,2,3-cd]pyr
56	1.11E-13	1.48E-12	2.22E-13	0.00E+00	0.00E+00	0.00E+00	1.88E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-12	3.69E-12	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	4.39E-13	5.84E-12	8.74E-13	0.00E+00	0.00E+00	0.00E+00	7.40E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-11	1.46E-11	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	8.62E-14	1.15E-12	1.72E-13	0.00E+00	0.00E+00	0.00E+00	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-12	2.86E-12	0.00%	Chrysene
61	1.26E-13	2.06E-15	6.80E-15	0.00E+00	0.00E+00	0.00E+00	4.76E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-13	6.10E-13	0.00%	alphaHexClCycHx
62	3.50E-12	5.73E-14	1.89E-13	0.00E+00	0.00E+00	0.00E+00	1.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-11	1.70E-11	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
65	5.70E-11	3.64E-12	1.20E-10	0.00E+00	0.00E+00	0.00E+00	8.55E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-10	2.66E-10	0.01%	Lead
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
67	3.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-10	0.01%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.38E-09	2.54E-09	1.23E-09	0.00E+00	0.00E+00	0.00E+00	2.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-09	5.38E-09	0.17%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	5.62E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-11	0.00%	Beryllium
74	2.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-10	0.01%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-09	0.14%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	3.19E-06	3.02E-09	1.43E-09	0.00E+00	0.00E+00	0.00E+00	9.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-09	3.20E-06		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	6.98E-11	1.03E-12	4.84E-13	0.00E+00	0.00E+00	0.00E+00	3.20E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-12	7.16E-11	0.00%	STKP_L_S
2	6.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-09	0.21%	TRUCK_S
3	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-08	0.83%	TRUCK_N
4	3.38E-10	3.96E-12	1.87E-12	0.00E+00	0.00E+00	0.00E+00	1.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-12	3.45E-10	0.01%	STKP_L_N
5	1.19E-10	5.49E-11	2.59E-11	0.00E+00	0.00E+00	0.00E+00	1.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-11	2.17E-10	0.01%	HAUL_S
6	1.14E-09	4.52E-10	2.13E-10	0.00E+00	0.00E+00	0.00E+00	1.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-10	1.95E-09	0.06%	HAUL_N
7	1.29E-09	5.95E-10	2.81E-10	0.00E+00	0.00E+00	0.00E+00	1.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-09	2.35E-09	0.07%	2_1
8	1.08E-08	1.27E-13	6.47E-14	0.00E+00	0.00E+00	0.00E+00	4.44E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-13	1.08E-08	0.34%	2_2
9	2.24E-10	1.04E-10	4.90E-11	0.00E+00	0.00E+00	0.00E+00	3.25E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-10	4.10E-10	0.01%	5
10	2.09E-09	1.24E-12	5.85E-13	0.00E+00	0.00E+00	0.00E+00	3.87E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-12	2.09E-09	0.07%	7_1
11	2.30E-08	4.47E-11	2.11E-11	0.00E+00	0.00E+00	0.00E+00	1.39E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-11	2.31E-08	0.72%	7_2
12	5.34E-11	1.29E-11	6.08E-12	0.00E+00	0.00E+00	0.00E+00	4.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-11	7.64E-11	0.00%	9
13	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-09	0.21%	10
14	3.38E-10	1.56E-10	7.35E-11	0.00E+00	0.00E+00	0.00E+00	4.87E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-10	6.16E-10	0.02%	1
15	1.17E-08	6.56E-12	3.10E-12	0.00E+00	0.00E+00	0.00E+00	2.05E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-11	1.17E-08	0.37%	3_1
16	1.72E-06	1.41E-09	6.63E-10	0.00E+00	0.00E+00	0.00E+00	4.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-09	1.73E-06	54.06%	3_2
17	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	3.47%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	5.87E-10	1.87E-10	8.83E-11	0.00E+00	0.00E+00	0.00E+00	5.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-10	9.20E-10	0.03%	8
20	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-07	23.16%	2_1D
21	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-09	0.04%	OFF_S
22	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-09	0.04%	STKP_LSD
23	5.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-09	0.18%	STKP_LND
24	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-09	0.11%	HAUL_SD
25	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-08	0.55%	HAUL_ND
26	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-08	0.48%	9D
27	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-08	1.50%	5D
28	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-07	4.19%	6D
29	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-08	2.20%	8D
30	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-07	7.13%	1D
31	2.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-10	0.01%	OFF_N
32	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-09	0.05%	BENZ_1
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	3.10E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-15	0.00%	AW_8
35	5.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-12	0.00%	B_7
SUM	3.19E-06	3.02E-09	1.43E-09	0.00E+00	0.00E+00	0.00E+00	9.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-09	3.20E-06		

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03	0.00E+00	0.00E+00	6.76E-03	3.78%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	1.08E-01	60.34%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	3.96E-05	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	3.96E-05	0.00%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	5.32E-07	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-07	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.14%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	3.68E-06	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	8.31E-06	8.31E-06	0.00E+00	8.31E-06	0.00E+00	8.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-06	0.00%	Ethyl Benzene
39	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.51E-06	0.00%	p-Xylene
43	0.00E+00	1.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-11	0.00E+00	1.81E-11	0.00E+00	1.81E-11	0.00E+00	0.00E+00	1.81E-11	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00%	EDB
45	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	1.60E-05	0.01%	m-Xylene
46	0.00E+00	2.37E-05	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.37E-05	0.01%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-08	0.00E+00	3.31E-08	3.31E-08	0.00E+00	0.00E+00	0.00E+00	3.31E-08	0.00%	Chlorobenzn
48	1.74E-09	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-09	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-09	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	1.98E-05	0.01%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	1.02E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	0.00E+00	5.77E-03	5.77E-03	3.22%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	5.73E-02	5.73E-02	0.00E+00	5.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-02	5.73E-02	0.00E+00	5.73E-02	32.01%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06	1.79E-04	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	1.79E-04	0.10%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	2.09E-04	0.08%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	5.07E-07	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-07	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	0.00E+00	3.76E-07	7.96E-06	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	5.73E-02	5.75E-02	0.00E+00	5.76E-02	8.31E-06	0.00E+00	2.45E-05	1.79E-04	3.28E-04	5.91E-05	1.79E-01	5.73E-02	5.81E-03	1.79E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.94E-05	2.11E-05	0.00E+00	2.06E-05	1.28E-07	0.00E+00	3.26E-07	6.05E-08	3.68E-07	9.14E-07	2.63E-05	1.94E-05	2.57E-06	2.63E-05	0.01%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.13%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04	0.00E+00	0.00E+00	9.01E-04	0.50%	TRUCK_N
4	7.52E-05	8.32E-05	0.00E+00	8.08E-05	6.24E-07	0.00E+00	1.59E-06	2.34E-07	1.69E-06	4.47E-06	1.07E-04	7.51E-05	1.05E-05	1.07E-04	0.06%	STKP_L_N
5	1.04E-03	1.04E-03	0.00E+00	1.04E-03	0.00E+00	0.00E+00	6.31E-08	3.24E-06	5.65E-06	0.00E+00	1.15E-03	1.04E-03	1.05E-04	1.15E-03	0.64%	HAUL_S
6	8.57E-03	8.59E-03	0.00E+00	8.60E-03	3.07E-07	0.00E+00	1.30E-06	2.66E-05	4.71E-05	2.21E-06	9.49E-03	8.57E-03	8.61E-04	9.49E-03	5.30%	HAUL_N
7	1.13E-02	1.13E-02	0.00E+00	1.13E-02	0.00E+00	0.00E+00	6.86E-07	3.52E-05	6.12E-05	0.00E+00	1.25E-02	1.13E-02	1.14E-03	1.25E-02	6.98%	2_1
8	2.87E-06	2.91E-06	0.00E+00	2.90E-06	1.35E-09	0.00E+00	1.35E-09	0.00E+00	3.52E-08	0.00E+00	3.74E-04	2.87E-06	3.33E-07	3.74E-04	0.21%	2_2
9	1.97E-03	1.97E-03	0.00E+00	1.97E-03	0.00E+00	0.00E+00	1.20E-07	6.15E-06	1.07E-05	0.00E+00	6.85E-03	1.97E-03	1.98E-04	6.85E-03	3.83%	5
10	2.35E-05	2.36E-05	0.00E+00	2.36E-05	0.00E+00	0.00E+00	1.42E-09	7.31E-08	1.27E-07	0.00E+00	9.68E-05	2.35E-05	2.35E-06	9.68E-05	0.05%	7_1
11	8.47E-04	8.49E-04	0.00E+00	8.50E-04	0.00E+00	0.00E+00	5.13E-08	2.64E-06	4.60E-06	0.00E+00	1.71E-03	8.47E-04	8.49E-05	1.71E-03	0.96%	7_2
12	2.44E-04	2.45E-04	0.00E+00	2.46E-04	4.83E-08	0.00E+00	1.38E-07	7.60E-07	1.42E-06	3.45E-07	2.72E-04	2.44E-04	2.48E-05	2.72E-04	0.15%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.13%	10
14	2.95E-03	2.96E-03	0.00E+00	2.96E-03	0.00E+00	0.00E+00	1.79E-07	9.20E-06	1.60E-05	0.00E+00	3.27E-03	2.95E-03	2.97E-04	3.27E-03	1.83%	1
15	1.24E-04	1.25E-04	0.00E+00	1.25E-04	4.63E-09	0.00E+00	1.93E-08	3.87E-07	6.82E-07	3.30E-08	5.41E-04	1.24E-04	1.25E-05	5.41E-04	0.30%	3_1
16	2.66E-02	2.68E-02	0.00E+00	2.68E-02	6.82E-06	0.00E+00	1.89E-05	8.31E-05	1.59E-04	4.87E-05	9.01E-02	2.66E-02	2.71E-03	9.01E-02	50.34%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	3.78E-03	2.11%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	3.55E-03	3.56E-03	0.00E+00	3.56E-03	3.47E-07	0.00E+00	1.10E-06	1.10E-05	1.99E-05	2.47E-06	3.94E-03	3.55E-03	3.58E-04	3.94E-03	2.20%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	0.00E+00	0.00E+00	2.52E-02	14.08%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	3.81E-05	0.02%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	4.86E-05	0.03%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	1.93E-04	0.11%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	1.18E-04	0.07%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	5.94E-04	0.33%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	5.23E-04	0.29%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	1.63E-03	0.91%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.55E-03	2.54%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	2.39E-03	1.34%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-03	0.00E+00	0.00E+00	7.76E-03	4.34%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	9.20E-06	0.01%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	4.91E-10	0.00E+00	2.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-10	0.00E+00	0.00E+00	4.91E-10	0.00%	B_4
34	0.00E+00	1.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-11	0.00E+00	1.81E-11	0.00E+00	1.81E-11	0.00E+00	0.00E+00	1.81E-11	0.00%	AW_8
35	0.00E+00	5.67E-08	0.00E+00	9.14E-08	3.47E-08	0.00E+00	3.47E-08	0.00E+00	3.47E-08	0.00E+00	3.74E-08	0.00E+00	5.67E-08	9.14E-08	0.00%	B_7
SUM	5.73E-02	5.75E-02	0.00E+00	5.76E-02	8.31E-06	0.00E+00	2.45E-05	1.79E-04	3.28E-04	5.91E-05	1.79E-01	5.73E-02	5.81E-03	1.79E-01		

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	6.90E-04	0.00E+00	0.00E+00	6.90E-04	6.90E-04	0.23%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	2.42E-06	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	4.40E-05	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	1.83E-05	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	1.81E-05	0.00%	p-Xylene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.92E-04	0.00%	m-Xylene
46	0.00E+00	7.23E-05	0.00E+00	7.23E-05	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	7.23E-05	7.23E-05	0.00E+00	0.00E+00	7.23E-05	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-08	0.00E+00	0.00E+00	4.37E-08	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	5.75E-06	0.00E+00	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	5.75E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	5.55E-04	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01	99.66%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	7.81E-02	7.81E-02	0.00E+00	7.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-02	0.00%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03	0.00E+00	0.00E+00	7.78E-03	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	2.47E-03	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	7.81E-02	7.88E-02	0.00E+00	7.95E-02	0.00E+00	3.06E-03	0.00E+00	2.95E-01	0.00E+00	7.63E-04	1.08E-02	0.00E+00	6.90E-04	2.95E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	8.13E-05	8.29E-05	0.00E+00	9.13E-05	0.00E+00	9.83E-06	0.00E+00	3.14E-04	0.00E+00	9.40E-06	1.80E-05	0.00E+00	8.51E-06	3.14E-04	0.11%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	4.11E-04	4.21E-04	0.00E+00	4.81E-04	0.00E+00	6.55E-05	0.00E+00	1.60E-03	0.00E+00	6.77E-05	1.06E-04	0.00E+00	6.13E-05	1.60E-03	0.54%	STKP_L_N
5	5.31E-03	5.34E-03	0.00E+00	5.34E-03	0.00E+00	1.68E-04	0.00E+00	2.00E-02	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	2.00E-02	6.78%	HAUL_S
6	2.56E-02	2.59E-02	0.00E+00	2.63E-02	0.00E+00	1.22E-03	0.00E+00	9.70E-02	0.00E+00	5.24E-04	3.77E-03	0.00E+00	4.74E-04	9.70E-02	32.88%	HAUL_N
7	9.75E-03	9.82E-03	0.00E+00	9.82E-03	0.00E+00	3.08E-04	0.00E+00	3.67E-02	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	3.67E-02	12.44%	2_1
8	4.09E-06	4.23E-06	0.00E+00	4.23E-06	0.00E+00	1.67E-06	0.00E+00	1.78E-05	0.00E+00	0.00E+00	1.76E-06	0.00E+00	0.00E+00	1.78E-05	0.01%	2_2
9	7.17E-04	7.22E-04	0.00E+00	7.22E-04	0.00E+00	2.26E-05	0.00E+00	2.70E-03	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	2.70E-03	0.92%	5
10	4.20E-04	4.23E-04	0.00E+00	4.23E-04	0.00E+00	1.33E-05	0.00E+00	1.58E-03	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	1.58E-03	0.54%	7_1
11	4.28E-03	4.31E-03	0.00E+00	4.31E-03	0.00E+00	1.35E-04	0.00E+00	1.61E-02	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	1.61E-02	5.46%	7_2
12	8.38E-03	8.44E-03	0.00E+00	8.47E-03	0.00E+00	2.92E-04	0.00E+00	3.14E-02	0.00E+00	3.60E-05	1.13E-03	0.00E+00	3.26E-05	3.14E-02	10.64%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	10
14	3.45E-04	3.48E-04	0.00E+00	3.48E-04	0.00E+00	1.09E-05	0.00E+00	1.30E-03	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	1.30E-03	0.44%	1
15	1.13E-03	1.14E-03	0.00E+00	1.14E-03	0.00E+00	3.79E-05	0.00E+00	4.25E-03	0.00E+00	2.94E-06	1.50E-04	0.00E+00	2.66E-06	4.25E-03	1.44%	3_1
16	7.01E-03	7.07E-03	0.00E+00	7.12E-03	0.00E+00	2.68E-04	0.00E+00	2.65E-02	0.00E+00	6.04E-05	9.67E-04	0.00E+00	5.47E-05	2.65E-02	8.98%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	1.47E-02	1.48E-02	0.00E+00	1.48E-02	0.00E+00	5.13E-04	0.00E+00	5.51E-02	0.00E+00	6.24E-05	1.98E-03	0.00E+00	5.65E-05	5.51E-02	18.68%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	2.17E-10	0.00E+00	2.17E-10	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	2.17E-10	1.04E-09	0.00E+00	0.00E+00	1.04E-09	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	8.31E-08	0.00E+00	0.00E+00	8.31E-08	8.31E-08	0.00%	B_7
SUM	7.81E-02	7.88E-02	0.00E+00	7.95E-02	0.00E+00	3.06E-03	0.00E+00	2.95E-01	0.00E+00	7.63E-04	1.08E-02	0.00E+00	6.90E-04	2.95E-01		

LEAD RISK ASSESSMENT SPREADSHEET 8

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Click here for ABBREVIATED INSTRUCTIONS FOR LEADSPREAD 8

INPUT	
MEDIUM	LEVEL
Lead in Soil/Dust (ug/g)	0.001
Respirable Dust (ug/m^3)	1.5

OUTPUT					
Percentile Estimate of Blood Pb (ug/dl)					
	50th	90th	95th	98th	99th
BLOOD Pb, CHILD	5.9E-06	1.1E-05	1.3E-05	1.6E-05	1.8E-05
BLOOD Pb, PICA CHILD	1.2E-05	2.2E-05	2.6E-05	3.1E-05	3.5E-05

EXPOSURE PARAMETERS		
	units	children
Days per week	days/wk	5
Geometric Standard Deviation		1.6
Blood lead level of concern (ug/dl)		1
Skin area, residential	cm^2	2900
Soil adherence	ug/cm^2	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001
Soil ingestion	mg/day	100
Soil ingestion, pica	mg/day	200
Ingestion constant	(ug/dl)/(ug/day)	0.16
Bioavailability	unitless	0.44
Breathing rate	m^3/day	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.192

PATHWAYS						
CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	4.1E-5	0.00	1%		0.00	0%
Soil Ingestion	5.0E-3	0.00	99%	1.0E-2	0.00	100%
Inhalation	1.4E-6	0.00	0%		0.00	0%

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Soil Weight

Area (m)	1
Depth (cm)	1
Depth (m)	0.01
Volume (m3)	0.01
Soil Density (kg/m3)	1200
Soil Weight (kg)	12
Soil Weight (g)	12000

Deposition Calculation

Lead Ground Level Concentration (ug/m3)	0.0003703
Vertical Rate of Deposition (m/s)	0.02
Seconds per Day	86400
Lead Deposition (ug/m2*day)	0.6398784
Days per Month	22
Monthly Lead Deposition (ug/m2)	14.0773248
Lead Concentration in Deposited Soil (ug/g)	**0.00117311**

MODIFIED VERSION OF USEPA ADULT LEAD MODEL

CALCULATIONS OF BLOOD LEAD CONCENTRATIONS (PbBs) AND PRELMIINARY REMEDIATION GOAL (PRG)

EDIT RED CELL

Variable	Description of Variable	Units	
PbS	Soil lead concentration	ug/g or ppm	0.00117311
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	ug/dL	0.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	250
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.93E-06**
$PbB_{fetal, 0.90}$	90th percentile PbB among fetuses of adult workers	ug/dL	0.0
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**1.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.0%**

ASCON Health Risk Assessment

School (Student) Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	8.96E-07	4.67E-02	1.09E-01
2	7.28E-07	3.79E-02	9.48E-02
3	5.87E-07	3.06E-02	8.69E-02
4	4.86E-07	2.53E-02	7.96E-02
5	4.09E-07	2.13E-02	7.22E-02
6	3.52E-07	1.83E-02	6.68E-02
7	3.04E-07	1.58E-02	6.10E-02
8	2.65E-07	1.38E-02	5.60E-02
9	6.36E-07	3.30E-02	9.59E-02
10	5.56E-07	2.89E-02	8.33E-02
11	4.81E-07	2.50E-02	7.60E-02
12	4.14E-07	2.15E-02	7.12E-02
13	3.58E-07	1.86E-02	6.64E-02
14	3.14E-07	1.63E-02	6.17E-02
15	2.77E-07	1.44E-02	5.71E-02
16	2.45E-07	1.27E-02	5.39E-02
17	4.71E-07	2.44E-02	8.32E-02
18	4.31E-07	2.24E-02	7.71E-02
19	3.89E-07	2.02E-02	6.96E-02
20	3.48E-07	1.81E-02	6.40E-02
21	3.10E-07	1.61E-02	6.09E-02
22	2.76E-07	1.43E-02	5.73E-02
23	2.48E-07	1.29E-02	5.39E-02
24	2.23E-07	1.16E-02	5.05E-02
25	3.63E-07	1.88E-02	7.70E-02
26	3.43E-07	1.78E-02	7.01E-02
27	3.18E-07	1.65E-02	6.51E-02
28	2.91E-07	1.51E-02	6.01E-02
29	2.66E-07	1.38E-02	5.54E-02
30	2.42E-07	1.25E-02	5.33E-02
31	2.20E-07	1.14E-02	5.05E-02
32	2.01E-07	1.04E-02	4.79E-02
33	2.88E-07	1.49E-02	7.04E-02
34	2.77E-07	1.44E-02	6.61E-02
35	2.63E-07	1.36E-02	5.97E-02
36	2.46E-07	1.27E-02	5.65E-02
37	2.28E-07	1.18E-02	5.30E-02
38	2.11E-07	1.09E-02	4.88E-02
39	1.95E-07	1.01E-02	4.74E-02
40	1.80E-07	9.31E-03	4.50E-02
41	2.34E-07	1.21E-02	6.44E-02
42	2.29E-07	1.18E-02	6.07E-02
43	2.20E-07	1.14E-02	5.73E-02

ASCON Health Risk Assessment

School (Student) Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	2.09E-07	1.08E-02	5.23E-02
45	1.97E-07	1.02E-02	4.98E-02
46	1.84E-07	9.53E-03	4.74E-02
47	1.72E-07	8.90E-03	4.34E-02
48	1.61E-07	8.31E-03	4.27E-02
49	1.94E-07	1.00E-02	5.93E-02
50	1.92E-07	9.90E-03	5.58E-02
51	1.87E-07	9.66E-03	5.36E-02
52	1.80E-07	9.29E-03	5.06E-02
53	1.71E-07	8.85E-03	4.65E-02
54	1.62E-07	8.37E-03	4.45E-02
55	1.53E-07	7.89E-03	4.27E-02
56	1.44E-07	7.43E-03	3.95E-02
57	1.63E-07	8.44E-03	5.49E-02
58	1.63E-07	8.41E-03	5.16E-02
59	1.60E-07	8.28E-03	5.05E-02
60	1.56E-07	8.06E-03	4.75E-02
61	1.50E-07	7.76E-03	4.53E-02
62	1.43E-07	7.40E-03	4.18E-02
63	1.36E-07	7.03E-03	4.03E-02
64	1.29E-07	6.67E-03	3.89E-02

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-07	99.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	4.14E-12	5.51E-11	8.25E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-11	6.75E-11	0.01%	B[a]P
6	1.92E-11	5.72E-11	8.56E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-11	8.49E-11	0.01%	D[a,h]anthracen
7	1.63E-14	2.17E-13	3.24E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-13	2.65E-13	0.00%	B[a]anthracene
8	4.58E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-12	0.00%	Chlordane
9	1.97E-13	5.45E-14	1.06E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-14	2.62E-13	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	4.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-10	0.05%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	7.28E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-15	0.00%	DiClDiPhEthylen
16	1.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-12	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	4.47E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-13	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	6.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-12	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	4.66E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-10	0.05%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	2.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-13	0.00%	3,3'DiClBenzidn
32	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-09	0.62%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	2.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-10	0.03%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	2.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-10	0.03%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
43	9.36E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-15	0.00%	p-DiClBenzene
44	2.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-11	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
49	3.94E-14	3.76E-15	7.33E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-15	4.39E-14	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	1.09E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-11	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	1.61E-14	2.14E-13	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-13	2.62E-13	0.00%	In[1,2,3-cd]pyr
56	2.63E-14	3.49E-13	5.23E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-13	4.28E-13	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	1.04E-13	1.38E-12	2.06E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-12	1.69E-12	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	2.04E-14	2.71E-13	4.05E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-13	3.31E-13	0.00%	Chrysene
61	2.97E-14	8.25E-15	1.61E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-15	3.96E-14	0.00%	alphaHexClCycHx
62	8.25E-13	2.29E-13	4.46E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-13	1.10E-12	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
65	1.95E-11	8.59E-13	2.83E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-11	4.87E-11	0.01%	Lead
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
67	9.28E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-11	0.01%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	3.26E-10	5.99E-10	2.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-10	1.22E-09	0.14%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	1.33E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-11	0.00%	Beryllium
74	5.31E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-11	0.01%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.11%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	8.95E-07	7.15E-10	3.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-09	8.96E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	4.88E-11	7.16E-13	3.38E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-12	4.98E-11	0.01%	STKP_L_S
2	7.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-10	0.08%	TRUCK_S
3	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-09	0.17%	TRUCK_N
4	1.04E-10	1.22E-12	5.75E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-12	1.06E-10	0.01%	STKP_L_N
5	2.75E-11	1.26E-11	5.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-11	4.60E-11	0.01%	HAUL_S
6	1.08E-10	4.25E-11	2.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-11	1.71E-10	0.02%	HAUL_N
7	2.27E-11	1.04E-11	4.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-11	3.80E-11	0.00%	2_1
8	3.73E-09	4.42E-14	2.24E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-14	3.73E-09	0.42%	2_2
9	7.22E-11	3.31E-11	1.56E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-11	1.21E-10	0.01%	5
10	6.42E-09	3.81E-12	1.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-12	6.42E-09	0.72%	7_1
11	1.65E-09	3.22E-12	1.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-12	1.66E-09	0.19%	7_2
12	3.18E-11	7.65E-12	3.61E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-11	4.30E-11	0.00%	9
13	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-09	0.25%	10
14	1.12E-10	5.14E-11	2.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-11	1.88E-10	0.02%	1
15	9.57E-08	5.36E-11	2.53E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-11	9.58E-08	10.69%	3_1
16	5.50E-07	4.49E-10	2.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-10	5.51E-07	61.50%	3_2
17	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-08	3.48%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	1.43E-10	4.55E-11	2.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-11	2.10E-10	0.02%	8
20	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.72%	2_1D
21	1.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-10	0.02%	OFF_S
22	9.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-10	0.11%	STKP_LSD
23	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-09	0.20%	STKP_LND
24	8.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-10	0.09%	HAUL_SD
25	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-09	0.22%	HAUL_ND
26	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-09	1.02%	9D
27	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.86%	5D
28	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-08	5.19%	6D
29	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.27%	8D
30	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-08	9.07%	1D
31	5.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-10	0.06%	OFF_N
32	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-09	0.62%	BENZ_1
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	9.36E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-15	0.00%	AW_8
35	1.72E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-13	0.00%	B_7
SUM	8.95E-07	7.15E-10	3.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-09	8.96E-07		

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	2.20E-03	4.71%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-02	0.00E+00	0.00E+00	3.01E-02	64.45%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	1.26E-05	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	1.26E-05	0.00%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	1.70E-07	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05	0.00E+00	0.00E+00	8.06E-05	0.17%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	1.17E-06	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	2.64E-06	2.64E-06	0.00E+00	2.64E-06	0.00E+00	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-06	0.00%	Ethyl Benzene
39	0.00E+00	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-07	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.80E-07	0.00%	p-Xylene
43	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00%	EDB
45	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	5.11E-06	0.01%	m-Xylene
46	0.00E+00	7.55E-06	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06	0.02%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-08	0.00E+00	1.05E-08	1.05E-08	0.00E+00	0.00E+00	0.00E+00	1.05E-08	0.00%	Chlorobenzn
48	4.12E-10	4.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	0.00E+00	4.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00E+00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	6.30E-06	0.01%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	1.53E-05	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	1.36E-03	1.36E-03	2.91%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.28E-02	1.28E-02	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	1.28E-02	0.00E+00	1.28E-02	27.41%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-07	4.22E-05	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	4.22E-05	0.09%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	3.31E-05	0.00E+00	0.00E+00	3.70E-05	0.07%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	1.20E-07	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	8.01E-08	1.88E-06	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.28E-02	1.28E-02	0.00E+00	1.28E-02	2.64E-06	0.00E+00	7.43E-06	4.22E-05	5.77E-05	1.88E-05	4.67E-02	1.28E-02	1.37E-03	4.67E-02		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.28E-05	1.40E-05	0.00E+00	1.36E-05	8.92E-08	0.00E+00	2.28E-07	4.22E-08	2.36E-07	6.38E-07	1.76E-05	1.28E-05	1.79E-06	1.76E-05	0.04%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.41E-05	0.05%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	5.07E-05	0.11%	TRUCK_N
4	2.18E-05	2.43E-05	0.00E+00	2.35E-05	1.92E-07	0.00E+00	4.89E-07	7.19E-08	4.83E-07	1.37E-06	3.15E-05	2.18E-05	3.24E-06	3.15E-05	0.07%	STKP_L_N
5	2.25E-04	2.25E-04	0.00E+00	2.26E-04	0.00E+00	0.00E+00	1.32E-08	7.43E-07	9.22E-07	0.00E+00	2.50E-04	2.25E-04	2.40E-05	2.50E-04	0.54%	HAUL_S
6	7.61E-04	7.62E-04	0.00E+00	7.63E-04	2.89E-08	0.00E+00	1.18E-07	2.50E-06	3.17E-06	2.08E-07	8.47E-04	7.61E-04	8.09E-05	8.47E-04	1.81%	HAUL_N
7	1.86E-04	1.86E-04	0.00E+00	1.86E-04	0.00E+00	0.00E+00	1.09E-08	6.15E-07	7.61E-07	0.00E+00	2.07E-04	1.86E-04	1.98E-05	2.07E-04	0.44%	2_1
8	9.37E-07	9.48E-07	0.00E+00	9.44E-07	4.68E-10	0.00E+00	4.69E-10	0.00E+00	8.31E-09	0.00E+00	1.30E-04	9.37E-07	1.15E-07	1.30E-04	0.28%	2_2
9	5.93E-04	5.94E-04	0.00E+00	5.95E-04	0.00E+00	0.00E+00	3.49E-08	1.96E-06	2.43E-06	0.00E+00	2.15E-03	5.93E-04	6.31E-05	2.15E-03	4.60%	5
10	6.83E-05	6.84E-05	0.00E+00	6.85E-05	0.00E+00	0.00E+00	3.99E-09	2.25E-07	2.79E-07	0.00E+00	2.94E-04	6.83E-05	7.24E-06	2.94E-04	0.63%	7_1
11	5.76E-05	5.77E-05	0.00E+00	5.77E-05	0.00E+00	0.00E+00	3.37E-09	1.90E-07	2.35E-07	0.00E+00	1.20E-04	5.76E-05	6.11E-06	1.20E-04	0.26%	7_2
12	1.37E-04	1.38E-04	0.00E+00	1.38E-04	2.87E-08	0.00E+00	8.10E-08	4.51E-07	6.19E-07	2.05E-07	1.53E-04	1.37E-04	1.47E-05	1.53E-04	0.33%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	7.60E-05	0.16%	10
14	9.21E-04	9.22E-04	0.00E+00	9.23E-04	0.00E+00	0.00E+00	5.39E-08	3.04E-06	3.77E-06	0.00E+00	1.02E-03	9.21E-04	9.79E-05	1.02E-03	2.18%	1
15	9.59E-04	9.61E-04	0.00E+00	9.62E-04	3.78E-08	0.00E+00	1.52E-07	3.16E-06	3.99E-06	2.69E-07	4.36E-03	9.59E-04	1.02E-04	4.36E-03	9.34%	3_1
16	8.03E-03	8.07E-03	0.00E+00	8.07E-03	2.18E-06	0.00E+00	5.98E-06	2.65E-05	3.73E-05	1.55E-05	2.83E-02	8.03E-03	8.67E-04	2.83E-02	60.60%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	1.06E-03	2.27%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	8.14E-04	8.16E-04	0.00E+00	8.17E-04	8.42E-08	0.00E+00	2.61E-07	2.68E-06	3.48E-06	5.99E-07	9.09E-04	8.14E-04	8.69E-05	9.09E-04	1.95%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	5.25E-04	1.12%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	5.62E-06	0.01%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.37E-05	0.07%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	5.99E-05	0.13%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	2.75E-05	0.06%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	6.70E-05	0.14%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04	0.67%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	5.66E-04	1.21%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	1.58E-03	3.38%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	6.89E-04	1.48%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.76E-03	5.91%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.97E-05	0.04%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	2.37E-10	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	2.37E-10	0.00%	B_4
34	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	AW_8
35	0.00E+00	1.85E-09	0.00E+00	2.99E-09	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.22E-09	0.00E+00	1.85E-09	2.99E-09	0.00%	B_7
SUM	1.28E-02	1.28E-02	0.00E+00	1.28E-02	2.64E-06	0.00E+00	7.43E-06	4.22E-05	5.77E-05	1.88E-05	4.67E-02	1.28E-02	1.37E-03	4.67E-02		

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.80E-04	1.80E-04	0.17%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07	0.00E+00	0.00E+00	6.05E-07	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	1.15E-05	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	4.72E-06	0.00%	p-Xylene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.02E-05	0.00%	m-Xylene
46	0.00E+00	1.88E-05	0.00E+00	1.88E-05	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	0.00E+00	0.00E+00	1.88E-05	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	1.62E-08	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	1.50E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	6.19E-05	0.00%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	2.05E-04	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	100.00%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	2.89E-02	2.89E-02	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-02	0.00%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	2.88E-03	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	9.14E-04	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.89E-02	2.91E-02	0.00E+00	2.93E-02	0.00E+00	1.07E-03	0.00E+00	1.09E-01	0.00E+00	1.99E-04	3.95E-03	0.00E+00	1.80E-04	1.09E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	5.40E-05	5.51E-05	0.00E+00	6.07E-05	0.00E+00	6.53E-06	0.00E+00	2.09E-04	0.00E+00	6.24E-06	1.19E-05	0.00E+00	5.65E-06	2.09E-04	0.19%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	1.82E-04	1.86E-04	0.00E+00	2.13E-04	0.00E+00	2.90E-05	0.00E+00	7.10E-04	0.00E+00	3.00E-05	4.71E-05	0.00E+00	2.71E-05	7.10E-04	0.65%	STKP_L_N
5	8.64E-04	8.70E-04	0.00E+00	8.70E-04	0.00E+00	2.74E-05	0.00E+00	3.25E-03	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	3.25E-03	2.98%	HAUL_S
6	2.51E-03	2.54E-03	0.00E+00	2.58E-03	0.00E+00	1.19E-04	0.00E+00	9.50E-03	0.00E+00	5.13E-05	3.69E-04	0.00E+00	4.65E-05	9.50E-03	8.72%	HAUL_N
7	1.45E-03	1.46E-03	0.00E+00	1.46E-03	0.00E+00	4.59E-05	0.00E+00	5.47E-03	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	5.47E-03	5.02%	2_1
8	4.49E-07	4.64E-07	0.00E+00	4.64E-07	0.00E+00	1.84E-07	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.95E-06	0.00%	2_2
9	5.26E-04	5.30E-04	0.00E+00	5.30E-04	0.00E+00	1.66E-05	0.00E+00	1.98E-03	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	1.98E-03	1.82%	5
10	5.09E-04	5.13E-04	0.00E+00	5.13E-04	0.00E+00	1.61E-05	0.00E+00	1.91E-03	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	1.91E-03	1.75%	7_1
11	7.61E-04	7.66E-04	0.00E+00	7.66E-04	0.00E+00	2.40E-05	0.00E+00	2.87E-03	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	2.87E-03	2.63%	7_2
12	5.77E-03	5.81E-03	0.00E+00	5.84E-03	0.00E+00	2.01E-04	0.00E+00	2.16E-02	0.00E+00	2.48E-05	7.77E-04	0.00E+00	2.24E-05	2.16E-02	19.82%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	10
14	2.59E-04	2.61E-04	0.00E+00	2.61E-04	0.00E+00	8.17E-06	0.00E+00	9.71E-04	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	9.71E-04	0.89%	1
15	2.46E-03	2.48E-03	0.00E+00	2.48E-03	0.00E+00	8.26E-05	0.00E+00	9.26E-03	0.00E+00	6.40E-06	3.27E-04	0.00E+00	5.79E-06	9.26E-03	8.50%	3_1
16	5.15E-03	5.19E-03	0.00E+00	5.23E-03	0.00E+00	1.97E-04	0.00E+00	1.94E-02	0.00E+00	4.43E-05	7.10E-04	0.00E+00	4.01E-05	1.94E-02	17.80%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	8.40E-03	8.46E-03	0.00E+00	8.50E-03	0.00E+00	2.94E-04	0.00E+00	3.16E-02	0.00E+00	3.57E-05	1.13E-03	0.00E+00	3.23E-05	3.16E-02	28.99%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	1.32E-10	0.00E+00	1.32E-10	0.00E+00	6.35E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-10	6.35E-10	0.00E+00	0.00E+00	6.35E-10	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	1.42E-08	1.42E-08	0.00%	B_7
SUM	2.89E-02	2.91E-02	0.00E+00	2.93E-02	0.00E+00	1.07E-03	0.00E+00	1.09E-01	0.00E+00	1.99E-04	3.95E-03	0.00E+00	1.80E-04	1.09E-01		

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	1.96E-08	3.68E-03	4.09E-02
2	2.00E-08	3.74E-03	4.32E-02
3	2.02E-08	3.78E-03	4.52E-02
4	2.01E-08	3.77E-03	4.77E-02
5	1.98E-08	3.71E-03	4.99E-02
6	1.97E-08	3.68E-03	5.19E-02
7	1.94E-08	3.62E-03	5.47E-02
8	1.87E-08	3.50E-03	5.87E-02
9	1.87E-08	3.50E-03	6.04E-02
10	1.94E-08	3.64E-03	6.06E-02
11	1.97E-08	3.68E-03	6.18E-02
12	1.98E-08	3.68E-03	5.99E-02
13	1.98E-08	3.67E-03	6.27E-02
14	1.97E-08	3.65E-03	6.33E-02
15	2.01E-08	3.69E-03	6.45E-02
16	2.42E-08	4.21E-03	6.51E-02
17	2.19E-08	4.10E-03	4.33E-02
18	2.25E-08	4.21E-03	4.54E-02
19	2.27E-08	4.26E-03	4.79E-02
20	2.29E-08	4.29E-03	5.08E-02
21	2.32E-08	4.33E-03	5.34E-02
22	2.30E-08	4.30E-03	5.63E-02
23	2.23E-08	4.18E-03	5.96E-02
24	2.17E-08	4.06E-03	6.20E-02
25	2.20E-08	4.13E-03	6.55E-02
26	2.28E-08	4.26E-03	6.61E-02
27	2.30E-08	4.30E-03	6.74E-02
28	2.31E-08	4.29E-03	6.64E-02
29	2.29E-08	4.25E-03	6.74E-02
30	2.27E-08	4.22E-03	7.05E-02
31	2.28E-08	4.22E-03	7.12E-02
32	2.36E-08	4.31E-03	6.99E-02
33	2.43E-08	4.56E-03	4.56E-02
34	2.51E-08	4.71E-03	4.95E-02
35	2.57E-08	4.81E-03	5.10E-02
36	2.61E-08	4.89E-03	5.31E-02
37	2.71E-08	5.06E-03	5.71E-02
38	2.70E-08	5.04E-03	6.09E-02
39	2.63E-08	4.93E-03	6.63E-02
40	2.63E-08	4.93E-03	6.77E-02
41	2.70E-08	5.05E-03	6.98E-02
42	2.73E-08	5.11E-03	7.29E-02
43	2.75E-08	5.14E-03	7.38E-02

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	2.74E-08	5.10E-03	7.46E-02
45	2.71E-08	5.03E-03	7.33E-02
46	2.67E-08	4.96E-03	7.69E-02
47	2.67E-08	4.96E-03	7.87E-02
48	2.67E-08	4.94E-03	7.83E-02
49	2.96E-08	5.26E-03	7.73E-02
50	2.68E-08	5.02E-03	4.86E-02
51	2.73E-08	5.12E-03	5.01E-02
52	2.91E-08	5.45E-03	5.42E-02
53	3.06E-08	5.72E-03	5.80E-02
54	3.19E-08	5.96E-03	6.13E-02
55	3.22E-08	6.01E-03	6.56E-02
56	3.19E-08	5.97E-03	7.25E-02
57	3.26E-08	6.09E-03	7.43E-02
58	3.30E-08	6.18E-03	7.74E-02
59	3.34E-08	6.27E-03	8.11E-02
60	3.36E-08	6.29E-03	8.10E-02
61	3.35E-08	6.24E-03	8.34E-02
62	3.30E-08	6.13E-03	8.45E-02
63	3.24E-08	6.03E-03	8.61E-02
64	3.21E-08	5.99E-03	8.62E-02
65	3.20E-08	5.95E-03	8.65E-02
66	3.28E-08	5.97E-03	8.66E-02
67	2.90E-08	5.44E-03	5.02E-02
68	3.07E-08	5.76E-03	5.32E-02
69	3.35E-08	6.27E-03	5.89E-02
70	3.57E-08	6.67E-03	6.11E-02
71	3.76E-08	7.02E-03	6.66E-02
72	3.90E-08	7.28E-03	7.17E-02
73	3.97E-08	7.42E-03	7.71E-02
74	4.05E-08	7.56E-03	8.29E-02
75	4.12E-08	7.72E-03	8.73E-02
76	4.22E-08	7.91E-03	9.18E-02
77	4.26E-08	7.98E-03	8.92E-02
78	4.24E-08	7.90E-03	9.17E-02
79	4.17E-08	7.77E-03	9.54E-02
80	4.08E-08	7.62E-03	9.58E-02
81	4.02E-08	7.51E-03	9.61E-02
82	3.98E-08	7.42E-03	9.74E-02
83	3.99E-08	7.32E-03	9.71E-02
84	3.25E-08	6.08E-03	5.33E-02
85	3.51E-08	6.57E-03	5.82E-02
86	3.80E-08	7.12E-03	6.15E-02

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
87	4.11E-08	7.68E-03	6.67E-02
88	4.41E-08	8.24E-03	7.20E-02
89	4.68E-08	8.74E-03	7.85E-02
90	4.91E-08	9.15E-03	8.57E-02
91	5.10E-08	9.51E-03	9.33E-02
92	5.30E-08	9.91E-03	1.01E-01
93	5.50E-08	1.03E-02	1.06E-01
94	5.63E-08	1.05E-02	1.03E-01
95	5.65E-08	1.06E-02	1.05E-01
96	5.58E-08	1.04E-02	1.08E-01
97	5.43E-08	1.02E-02	1.08E-01
98	5.28E-08	9.89E-03	1.09E-01
99	5.14E-08	9.61E-03	1.11E-01
100	5.06E-08	9.35E-03	1.12E-01
101	3.56E-08	6.66E-03	5.58E-02
102	3.90E-08	7.29E-03	6.01E-02
103	4.27E-08	7.98E-03	6.52E-02
104	4.69E-08	8.76E-03	7.15E-02
105	5.12E-08	9.57E-03	7.98E-02
106	5.64E-08	1.05E-02	8.70E-02
107	6.14E-08	1.14E-02	9.67E-02
108	6.58E-08	1.23E-02	1.07E-01
109	7.09E-08	1.32E-02	1.18E-01
110	7.52E-08	1.41E-02	1.26E-01
111	7.78E-08	1.46E-02	1.28E-01
112	8.00E-08	1.50E-02	1.28E-01
113	7.99E-08	1.50E-02	1.22E-01
114	7.81E-08	1.47E-02	1.22E-01
115	7.47E-08	1.40E-02	1.22E-01
116	7.12E-08	1.34E-02	1.28E-01
117	6.82E-08	1.27E-02	1.32E-01
118	3.89E-08	7.29E-03	5.82E-02
119	4.32E-08	8.07E-03	6.30E-02
120	4.79E-08	8.96E-03	6.90E-02
121	5.30E-08	9.92E-03	7.58E-02
122	5.99E-08	1.12E-02	8.50E-02
123	6.81E-08	1.27E-02	9.83E-02
124	7.71E-08	1.44E-02	1.10E-01
125	8.73E-08	1.62E-02	1.26E-01
126	9.94E-08	1.85E-02	1.44E-01
127	1.12E-07	2.08E-02	1.57E-01
128	1.21E-07	2.26E-02	1.59E-01
129	1.26E-07	2.37E-02	1.52E-01

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
130	1.30E-07	2.45E-02	1.43E-01
131	1.28E-07	2.41E-02	1.38E-01
132	1.21E-07	2.30E-02	1.41E-01
133	1.14E-07	2.17E-02	1.51E-01
134	1.03E-07	1.94E-02	1.64E-01
135	4.30E-08	8.06E-03	6.05E-02
136	4.81E-08	9.01E-03	6.58E-02
137	5.42E-08	1.01E-02	7.25E-02
138	6.10E-08	1.14E-02	8.08E-02
139	7.07E-08	1.32E-02	9.09E-02
140	8.25E-08	1.54E-02	1.04E-01
141	9.76E-08	1.82E-02	1.25E-01
142	1.18E-07	2.20E-02	1.49E-01
143	1.51E-07	2.81E-02	1.86E-01
144	1.99E-07	3.74E-02	2.09E-01
145	2.41E-07	4.56E-02	2.09E-01
146	2.65E-07	5.03E-02	1.86E-01
147	2.75E-07	5.22E-02	1.70E-01
148	2.74E-07	5.24E-02	1.67E-01
149	2.70E-07	5.21E-02	1.71E-01
150	2.55E-07	4.97E-02	1.82E-01
151	2.01E-07	3.89E-02	2.37E-01
152	4.76E-08	8.91E-03	6.32E-02
153	5.38E-08	1.01E-02	6.88E-02
154	6.14E-08	1.15E-02	7.58E-02
155	7.10E-08	1.33E-02	8.46E-02
156	8.32E-08	1.56E-02	9.61E-02
157	9.97E-08	1.86E-02	1.12E-01
158	1.23E-07	2.30E-02	1.33E-01
159	1.61E-07	3.00E-02	1.71E-01
160	2.45E-07	4.58E-02	2.47E-01
161	5.16E-08	9.65E-03	6.53E-02
162	5.88E-08	1.10E-02	7.18E-02
163	6.76E-08	1.26E-02	7.95E-02
164	7.90E-08	1.48E-02	8.89E-02
165	9.44E-08	1.76E-02	1.02E-01
166	1.15E-07	2.15E-02	1.17E-01
167	1.47E-07	2.73E-02	1.41E-01
168	1.99E-07	3.70E-02	1.81E-01
169	3.33E-07	6.24E-02	2.87E-01
170	5.40E-08	1.01E-02	6.71E-02
171	6.17E-08	1.15E-02	7.39E-02
172	7.13E-08	1.33E-02	8.22E-02

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
173	8.36E-08	1.56E-02	9.25E-02
174	1.01E-07	1.88E-02	1.06E-01
175	1.25E-07	2.33E-02	1.23E-01
176	1.62E-07	3.02E-02	1.48E-01
177	2.28E-07	4.26E-02	1.89E-01
178	4.02E-07	7.61E-02	3.02E-01
179	5.59E-08	1.04E-02	6.89E-02
180	6.32E-08	1.18E-02	7.61E-02
181	7.21E-08	1.35E-02	8.47E-02
182	8.47E-08	1.59E-02	9.59E-02
183	1.02E-07	1.92E-02	1.10E-01
184	1.27E-07	2.39E-02	1.29E-01
185	1.68E-07	3.15E-02	1.58E-01
186	2.42E-07	4.56E-02	2.07E-01
187	4.50E-07	8.68E-02	3.66E-01
188	5.61E-08	1.04E-02	7.04E-02
189	6.31E-08	1.17E-02	7.81E-02
190	7.09E-08	1.33E-02	8.69E-02
191	8.30E-08	1.56E-02	9.85E-02
192	1.00E-07	1.89E-02	1.13E-01
193	1.25E-07	2.36E-02	1.34E-01
194	1.66E-07	3.13E-02	1.65E-01
195	2.39E-07	4.54E-02	2.26E-01
196	4.39E-07	8.42E-02	3.87E-01
197	5.47E-08	1.01E-02	7.16E-02
198	6.12E-08	1.14E-02	7.94E-02
199	6.85E-08	1.29E-02	8.90E-02
200	8.00E-08	1.51E-02	1.01E-01
201	9.64E-08	1.82E-02	1.16E-01
202	1.21E-07	2.29E-02	1.37E-01
203	1.61E-07	3.06E-02	1.67E-01
204	2.33E-07	4.45E-02	2.16E-01
205	4.31E-07	8.32E-02	2.83E-01
206	5.27E-08	9.72E-03	7.21E-02
207	5.88E-08	1.09E-02	7.96E-02
208	6.57E-08	1.23E-02	8.97E-02
209	7.65E-08	1.44E-02	1.03E-01
210	9.20E-08	1.73E-02	1.19E-01
211	1.15E-07	2.18E-02	1.38E-01
212	1.53E-07	2.90E-02	1.68E-01
213	2.26E-07	4.29E-02	2.06E-01
214	4.23E-07	8.20E-02	2.67E-01
215	4.96E-08	9.09E-03	7.19E-02

ASCON Health Risk Assessment

Worker Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
216	5.60E-08	1.03E-02	8.04E-02
217	6.25E-08	1.16E-02	8.95E-02
218	7.25E-08	1.35E-02	1.02E-01
219	8.65E-08	1.61E-02	1.17E-01
220	1.07E-07	1.99E-02	1.39E-01
221	1.41E-07	2.64E-02	1.70E-01
222	2.09E-07	3.93E-02	2.19E-01
223	4.57E-07	8.67E-02	3.21E-01

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-07	96.72%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	3.27E-12	7.51E-11	9.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-11	8.82E-11	0.02%	B[a]P
6	1.05E-11	7.80E-11	1.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-11	9.86E-11	0.02%	D[a,h]anthracen
7	1.29E-14	2.95E-13	3.84E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-13	3.47E-13	0.00%	B[a]anthracene
8	2.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-12	0.00%	Chlordane
9	1.07E-13	7.44E-14	1.26E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-14	1.94E-13	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-10	0.04%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	3.96E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-15	0.00%	DiClDiPhEthylen
16	5.36E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-13	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	2.43E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-13	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	2.86E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-12	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	1.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-10	0.04%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	1.48E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-13	0.00%	3,3'DiClBenzidn
32	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-08	2.84%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	1.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-10	0.02%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	1.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-10	0.02%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
43	1.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-13	0.00%	p-DiClBenzene
44	8.49E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-12	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
49	2.04E-14	4.86E-15	8.22E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-15	2.60E-14	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	4.60E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-12	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	1.27E-14	2.91E-13	3.79E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-13	3.42E-13	0.00%	In[1,2,3-cd]pyr
56	2.08E-14	4.77E-13	6.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-13	5.59E-13	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	8.19E-14	1.88E-12	2.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-12	2.21E-12	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	1.61E-14	3.69E-13	4.80E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-13	4.33E-13	0.00%	Chrysene
61	1.62E-14	1.12E-14	1.90E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-14	2.93E-14	0.00%	alphaHexClCycHx
62	4.50E-13	3.12E-13	5.28E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-13	8.15E-13	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
65	1.06E-11	1.98E-11	3.35E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-11	6.40E-11	0.01%	Lead
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
67	5.06E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-11	0.01%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.77E-10	8.17E-10	3.45E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-09	1.34E-09	0.29%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	7.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-12	0.00%	Beryllium
74	2.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-11	0.01%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	5.59E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-10	0.12%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	4.56E-07	9.94E-10	3.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-09	4.57E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source	
1	3.10E-11	1.16E-12	4.67E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-12	3.27E-11	0.01%	STKP_L_S	
2	1.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.03%	TRUCK_S	
3	1.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-10	0.04%	TRUCK_N	
4	1.55E-11	4.62E-13	1.86E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-13	1.61E-11	0.00%	STKP_L_N	
5	1.20E-10	1.39E-10	5.60E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-10	3.15E-10	0.07%	HAUL_S	
6	3.30E-11	3.31E-11	1.33E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-11	7.94E-11	0.02%	HAUL_N	
7	3.15E-12	3.67E-12	1.47E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-12	8.29E-12	0.00%	2_1	
8	5.14E-10	1.54E-14	6.70E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-14	5.14E-10	0.11%	2_2	
9	3.21E-11	3.76E-11	1.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-11	8.49E-11	0.02%		5
10	9.53E-08	1.44E-10	5.80E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-10	9.55E-08	20.90%	7_1	
11	3.12E-10	1.55E-12	6.21E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-12	3.14E-10	0.07%	7_2	
12	2.38E-11	1.46E-11	5.88E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-11	4.44E-11	0.01%		9
13	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.23%		10
14	5.15E-11	6.01E-11	2.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-11	1.36E-10	0.03%		1
15	9.77E-09	1.40E-11	5.60E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-11	9.79E-09	2.14%	3_1	
16	2.45E-07	5.09E-10	2.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-10	2.45E-07	53.61%	3_2	
17	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-08	2.21%	4_1	
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		6
19	4.21E-11	3.40E-11	1.37E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-11	8.98E-11	0.02%		8
20	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-09	0.46%	2_1D	
21	3.66E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-11	0.01%	OFF_S	
22	6.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-10	0.14%	STKP_LSD	
23	2.66E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-10	0.06%	STKP_LND	
24	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-09	0.60%	HAUL_SD	
25	5.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-10	0.13%	HAUL_ND	
26	6.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-09	1.53%	9D	
27	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-09	1.49%	5D	
28	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-08	4.14%	6D	
29	5.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-09	1.14%	8D	
30	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	7.44%	1D	
31	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-09	0.50%	OFF_N	
32	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-08	2.84%	BENZ_1	
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4	
34	1.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-13	0.00%	AW_8	
35	2.57E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-14	0.00%	B_7	
SUM	4.56E-07	9.94E-10	3.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-09	4.57E-07			

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	3.04E-03	3.50%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-02	0.00E+00	0.00E+00	5.68E-02	65.44%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	2.98E-05	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	2.98E-05	0.00%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	4.02E-07	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-07	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-06	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	1.88E-04	0.22%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06	0.00E+00	0.00E+00	2.78E-06	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	6.24E-06	6.24E-06	0.00E+00	6.24E-06	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00%	Ethyl Benzene
39	0.00E+00	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-07	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.14E-06	0.00%	p-Xylene
43	0.00E+00	4.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-11	0.00E+00	4.85E-11	0.00E+00	4.85E-11	0.00E+00	0.00E+00	4.85E-11	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00%	EDB
45	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	1.21E-05	0.01%	m-Xylene
46	0.00E+00	1.79E-05	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	1.79E-05	0.02%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-08	0.00E+00	2.50E-08	2.50E-08	0.00E+00	0.00E+00	0.00E+00	2.50E-08	0.00%	Chlorobenzn
48	8.41E-10	8.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-10	0.00E+00	8.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-10	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.49E-05	0.02%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	2.95E-05	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	2.78E-03	2.78E-03	3.20%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	2.38E-02	2.38E-02	0.00E+00	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02	2.38E-02	0.00E+00	2.38E-02	27.42%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	8.62E-05	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	8.62E-05	0.10%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	6.77E-05	0.00E+00	0.00E+00	7.44E-05	0.08%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	2.45E-07	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-07	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	0.00E+00	1.42E-07	3.84E-06	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.38E-02	2.39E-02	0.00E+00	2.39E-02	6.24E-06	0.00E+00	1.72E-05	8.62E-05	1.17E-04	4.46E-05	8.68E-02	2.38E-02	2.81E-03	8.68E-02		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source	
1	1.21E-04	1.33E-04	0.00E+00	1.29E-04	9.23E-07	0.00E+00	2.35E-06	4.37E-07	2.43E-06	6.60E-06	1.71E-04	1.21E-04	1.86E-05	1.71E-04	0.20%	STKP_L_S	
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	3.56E-05	0.04%	TRUCK_S	
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	4.86E-05	0.06%	TRUCK_N	
4	2.26E-05	2.54E-05	0.00E+00	2.46E-05	2.18E-07	0.00E+00	5.57E-07	8.19E-08	5.48E-07	1.57E-06	3.37E-05	2.26E-05	3.69E-06	3.37E-05	0.04%	STKP_L_N	
5	1.08E-03	1.09E-03	0.00E+00	1.09E-03	0.00E+00	0.00E+00	6.19E-08	3.93E-06	4.73E-06	0.00E+00	1.22E-03	1.08E-03	1.27E-04	1.22E-03	1.41%	HAUL_S	
6	5.82E-04	5.83E-04	0.00E+00	5.84E-04	2.43E-08	0.00E+00	9.48E-08	2.10E-06	2.58E-06	1.75E-07	6.55E-04	5.82E-04	6.80E-05	6.55E-04	0.75%	HAUL_N	
7	1.78E-04	1.78E-04	0.00E+00	1.78E-04	0.00E+00	0.00E+00	1.02E-08	6.45E-07	7.76E-07	0.00E+00	2.00E-04	1.78E-04	2.08E-05	2.00E-04	0.23%	2_1	
8	5.03E-07	5.09E-07	0.00E+00	5.07E-07	2.76E-10	0.00E+00	2.76E-10	0.00E+00	4.70E-09	0.00E+00	7.63E-05	5.03E-07	6.78E-08	7.63E-05	0.09%	2_2	
9	7.60E-04	7.61E-04	0.00E+00	7.62E-04	0.00E+00	0.00E+00	4.35E-08	2.76E-06	3.32E-06	0.00E+00	2.95E-03	7.60E-04	8.88E-05	2.95E-03	3.40%		5
10	5.05E-05	5.06E-05	0.00E+00	5.06E-05	0.00E+00	0.00E+00	2.88E-09	1.83E-07	2.20E-07	0.00E+00	2.34E-04	5.05E-05	5.88E-06	2.34E-04	0.27%	7_1	
11	6.17E-05	6.18E-05	0.00E+00	6.19E-05	0.00E+00	0.00E+00	3.52E-09	2.23E-07	2.69E-07	0.00E+00	1.35E-04	6.17E-05	7.19E-06	1.35E-04	0.16%	7_2	
12	8.67E-03	8.71E-03	0.00E+00	8.71E-03	1.99E-06	0.00E+00	5.57E-06	3.14E-05	4.19E-05	1.42E-05	9.82E-03	8.67E-03	1.02E-03	9.82E-03	11.31%		9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	1.47E-04	0.17%		10
14	1.72E-03	1.72E-03	0.00E+00	1.73E-03	0.00E+00	0.00E+00	9.83E-08	6.24E-06	7.51E-06	0.00E+00	1.93E-03	1.72E-03	2.01E-04	1.93E-03	2.22%		1
15	1.29E-04	1.30E-04	0.00E+00	1.30E-04	5.60E-09	0.00E+00	2.16E-08	4.68E-07	5.74E-07	3.99E-08	6.33E-04	1.29E-04	1.51E-05	6.33E-04	0.73%	3_1	
16	1.03E-02	1.03E-02	0.00E+00	1.03E-02	3.06E-06	0.00E+00	8.33E-06	3.73E-05	5.12E-05	2.18E-05	3.88E-02	1.03E-02	1.22E-03	3.88E-02	44.70%	3_2	
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	3.80E-03	4.38%	4_1	
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		6
19	1.40E-04	1.41E-04	0.00E+00	1.41E-04	1.60E-08	0.00E+00	4.85E-08	5.07E-07	6.42E-07	1.13E-07	1.58E-04	1.40E-04	1.65E-05	1.58E-04	0.18%		8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	5.24E-04	0.60%	2_1D	
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-06	0.00E+00	0.00E+00	6.91E-06	0.01%	OFF_S	
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04	0.37%	STKP_LSD	
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	6.54E-05	0.08%	STKP_LND	
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	1.38E-04	0.16%	HAUL_SD	
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	5.54E-05	0.06%	HAUL_ND	
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	1.65E-02	19.01%	9D	
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	0.00E+00	7.67E-04	0.88%	5D	
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	2.14E-03	2.47%	6D	
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	1.33E-04	0.15%	8D	
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-03	0.00E+00	0.00E+00	5.12E-03	5.90%	1D	
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	2.43E-05	0.03%	OFF_N	
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1	
33	0.00E+00	3.03E-09	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-09	0.00E+00	0.00E+00	3.03E-09	0.00%	B_4	
34	0.00E+00	4.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-11	0.00E+00	4.85E-11	0.00E+00	4.85E-11	0.00E+00	0.00E+00	4.85E-11	0.00%	AW_8	
35	0.00E+00	2.15E-09	0.00E+00	3.46E-09	1.31E-09	0.00E+00	1.31E-09	0.00E+00	1.31E-09	0.00E+00	1.42E-09	0.00E+00	2.15E-09	3.46E-09	0.00%	B_7	
SUM	2.38E-02	2.39E-02	0.00E+00	2.39E-02	6.24E-06	0.00E+00	1.72E-05	8.62E-05	1.17E-04	4.46E-05	8.68E-02	2.38E-02	2.81E-03	8.68E-02			

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM		CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
	1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
	2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
	4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
	5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
	6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
	7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
	8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
	9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
	10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
	11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
	12	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	5.37E-04	0.00E+00	0.00E+00	5.37E-04	5.37E-04	0.14%	Benzene
	13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
	14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
	15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
	16	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00%	Methylene Chlor
	17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
	18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
	19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
	21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-06	0.00E+00	0.00E+00	1.76E-06	0.00%	MEK
	22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
	23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
	24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
	25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
	26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
	27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
	28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
	29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
	31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
	32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
	33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	3.44E-05	0.00%	o-Xylene
	34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
	35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
	36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
	37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
	38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
	39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	1.34E-05	0.00%	Styrene
	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
	41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
	42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	1.41E-05	0.00%	p-Xylene
	43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
	44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
	45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	1.50E-04	0.00%	m-Xylene
	46	0.00E+00	5.62E-05	0.00E+00	5.62E-05	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	5.62E-05	5.62E-05	0.00E+00	0.00E+00	5.62E-05	0.00%	Toluene
	47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
	48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-08	0.00E+00	0.00E+00	5.77E-08	0.00%	Phenol
	49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
	51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
	52	0.00E+00	4.48E-06	0.00E+00	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	4.48E-06	0.00%	Perc
	53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
	54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
	55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
	56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
	57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
	58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
	59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
	61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
	62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
	63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
	64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	1.85E-04	0.00%	Xylenes
	65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
	66	0.00E+00	7.31E-04	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04	0.00%	Mercury
	67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-01	100.00%	Nickel
	68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
	69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
	71	1.03E-01	1.03E-01	0.00E+00	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-01	0.00%	Arsenic
	72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
	73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
	74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
	75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
	76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
	77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	1.03E-02	0.00%	Copper
	78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	3.26E-03	0.00%	Vanadium
	79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
	81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
	82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM		1.03E-01	1.04E-01	0.00E+00	1.04E-01	0.00E+00	3.72E-03	0.00E+00	3.87E-01	0.00E+00	5.93E-04	1.40E-02	0.00E+00	5.37E-04	3.87E-01		

Acute Risk by Source

SRC		CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source	
	1	3.73E-04	3.80E-04	0.00E+00	4.18E-04	0.00E+00	4.51E-05	0.00E+00	1.44E-03	0.00E+00	4.31E-05	8.23E-05	0.00E+00	3.90E-05	1.44E-03	0.37%	STKP_L_S	
	2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S	
	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N	
	4	2.34E-04	2.40E-04	0.00E+00	2.74E-04	0.00E+00	3.73E-05	0.00E+00	9.14E-04	0.00E+00	3.86E-05	6.06E-05	0.00E+00	3.49E-05	9.14E-04	0.24%	STKP_L_N	
	5	3.46E-03	3.49E-03	0.00E+00	3.49E-03	0.00E+00	1.10E-04	0.00E+00	1.30E-02	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	1.30E-02	3.36%	HAUL_S	
	6	5.10E-03	5.15E-03	0.00E+00	5.24E-03	0.00E+00	2.42E-04	0.00E+00	1.93E-02	0.00E+00	1.04E-04	7.50E-04	0.00E+00	9.43E-05	1.93E-02	4.99%	HAUL_N	
	7	1.41E-03	1.42E-03	0.00E+00	1.42E-03	0.00E+00	4.44E-05	0.00E+00	5.28E-03	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	5.28E-03	1.36%	2_1	
	8	4.46E-07	4.60E-07	0.00E+00	4.60E-07	0.00E+00	1.82E-07	0.00E+00	1.94E-06	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	1.94E-06	0.00%	2_2	
	9	7.11E-04	7.16E-04	0.00E+00	7.16E-04	0.00E+00	2.24E-05	0.00E+00	2.68E-03	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	2.68E-03	0.69%		5
	10	1.79E-03	1.80E-03	0.00E+00	1.80E-03	0.00E+00	5.65E-05	0.00E+00	6.71E-03	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	6.71E-03	1.73%	7_1	
	11	1.02E-03	1.02E-03	0.00E+00	1.02E-03	0.00E+00	3.21E-05	0.00E+00	3.83E-03	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	3.83E-03	0.99%	7_2	
	12	7.65E-02	7.71E-02	0.00E+00	7.74E-02	0.00E+00	2.67E-03	0.00E+00	2.87E-01	0.00E+00	3.28E-04	1.03E-02	0.00E+00	2.97E-04	2.87E-01	74.16%		9
	13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		10
	14	3.53E-04	3.55E-04	0.00E+00	3.55E-04	0.00E+00	1.11E-05	0.00E+00	1.32E-03	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	1.32E-03	0.34%		1
	15	1.83E-03	1.84E-03	0.00E+00	1.84E-03	0.00E+00	6.14E-05	0.00E+00	6.88E-03	0.00E+00	4.76E-06	2.43E-04	0.00E+00	4.31E-06	6.88E-03	1.78%	3_1	
	16	6.95E-03	7.01E-03	0.00E+00	7.06E-03	0.00E+00	2.65E-04	0.00E+00	2.62E-02	0.00E+00	5.99E-05	9.58E-04	0.00E+00	5.42E-05	2.62E-02	6.77%	3_2	
	17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1	
	18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		6
	19	3.40E-03	3.42E-03	0.00E+00	3.43E-03	0.00E+00	1.19E-04	0.00E+00	1.28E-02	0.00E+00	1.44E-05	4.57E-04	0.00E+00	1.31E-05	1.28E-02	3.31%		8
	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D	
	21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S	
	22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD	
	23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND	
	24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD	
	25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND	
	26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D	
	27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D	
	28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D	
	29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D	
	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D	
	31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N	
	32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1	
	33	0.00E+00	7.36E-10	0.00E+00	7.36E-10	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	7.36E-10	3.55E-09	0.00E+00	0.00E+00	3.55E-09	0.00%	B_4	
	34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8	
	35	0.00E+00	0.00E+00	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	1.49E-08	0.00E+00	1.49E-08	0.00E+00	0.00E+00	1.49E-08	1.49E-08	0.00%	B_7	
SUM		1.03E-01	1.04E-01	0.00E+00	1.04E-01	0.00E+00	3.72E-03	0.00E+00	3.87E-01	0.00E+00	5.93E-04	1.40E-02	0.00E+00	5.37E-04	3.87E-01			

ASCON Health Risk Assessment

School (Worker) Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	2.40E-07	4.55E-02	1.09E-01
2	1.95E-07	3.70E-02	9.48E-02
3	1.57E-07	2.98E-02	8.69E-02
4	1.30E-07	2.47E-02	7.96E-02
5	1.10E-07	2.08E-02	7.22E-02
6	9.41E-08	1.79E-02	6.68E-02
7	8.12E-08	1.54E-02	6.10E-02
8	7.08E-08	1.34E-02	5.60E-02
9	1.70E-07	3.22E-02	9.59E-02
10	1.49E-07	2.82E-02	8.33E-02
11	1.29E-07	2.44E-02	7.60E-02
12	1.11E-07	2.10E-02	7.12E-02
13	9.56E-08	1.81E-02	6.64E-02
14	8.41E-08	1.59E-02	6.17E-02
15	7.40E-08	1.40E-02	5.71E-02
16	6.55E-08	1.24E-02	5.39E-02
17	1.26E-07	2.38E-02	8.32E-02
18	1.15E-07	2.18E-02	7.71E-02
19	1.04E-07	1.97E-02	6.96E-02
20	9.32E-08	1.76E-02	6.40E-02
21	8.30E-08	1.57E-02	6.09E-02
22	7.39E-08	1.40E-02	5.73E-02
23	6.64E-08	1.26E-02	5.39E-02
24	5.97E-08	1.13E-02	5.05E-02
25	9.71E-08	1.83E-02	7.70E-02
26	9.17E-08	1.73E-02	7.01E-02
27	8.50E-08	1.61E-02	6.51E-02
28	7.79E-08	1.47E-02	6.01E-02
29	7.11E-08	1.34E-02	5.54E-02
30	6.47E-08	1.22E-02	5.33E-02
31	5.89E-08	1.11E-02	5.05E-02
32	5.37E-08	1.02E-02	4.79E-02
33	7.70E-08	1.45E-02	7.04E-02
34	7.42E-08	1.40E-02	6.61E-02
35	7.03E-08	1.33E-02	5.97E-02
36	6.57E-08	1.24E-02	5.65E-02
37	6.09E-08	1.15E-02	5.30E-02
38	5.63E-08	1.06E-02	4.88E-02
39	5.20E-08	9.83E-03	4.74E-02
40	4.81E-08	9.09E-03	4.50E-02
41	6.26E-08	1.18E-02	6.44E-02
42	6.12E-08	1.15E-02	6.07E-02
43	5.89E-08	1.11E-02	5.73E-02

ASCON Health Risk Assessment

School (Worker) Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	5.59E-08	1.06E-02	5.23E-02
45	5.26E-08	9.94E-03	4.98E-02
46	4.92E-08	9.30E-03	4.74E-02
47	4.60E-08	8.69E-03	4.34E-02
48	4.29E-08	8.11E-03	4.27E-02
49	5.19E-08	9.77E-03	5.93E-02
50	5.13E-08	9.66E-03	5.58E-02
51	5.00E-08	9.42E-03	5.36E-02
52	4.81E-08	9.07E-03	5.06E-02
53	4.58E-08	8.64E-03	4.65E-02
54	4.33E-08	8.17E-03	4.45E-02
55	4.08E-08	7.70E-03	4.27E-02
56	3.84E-08	7.25E-03	3.95E-02
57	4.37E-08	8.23E-03	5.49E-02
58	4.36E-08	8.21E-03	5.16E-02
59	4.29E-08	8.08E-03	5.05E-02
60	4.17E-08	7.87E-03	4.75E-02
61	4.01E-08	7.57E-03	4.53E-02
62	3.83E-08	7.22E-03	4.18E-02
63	3.64E-08	6.86E-03	4.03E-02
64	3.45E-08	6.50E-03	3.89E-02

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-07	98.75%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	1.60E-12	3.68E-11	4.78E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-11	4.32E-11	0.02%	B[a]P
6	5.12E-12	3.82E-11	4.97E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-11	4.83E-11	0.02%	D[a,h]anthracen
7	6.30E-15	1.45E-13	1.88E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-13	1.70E-13	0.00%	B[a]anthracene
8	1.22E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-12	0.00%	Chlordane
9	5.25E-14	3.65E-14	6.16E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-14	9.51E-14	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-10	0.05%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	1.94E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-15	0.00%	DiClDiPhEthylen
16	3.39E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-13	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	1.19E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-13	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-12	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	1.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-10	0.05%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	7.24E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-14	0.00%	3,3'DiClBenzidn
32	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-09	0.62%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	6.65E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-11	0.03%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	6.56E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-11	0.03%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
43	2.50E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-15	0.00%	p-DiClBenzene
44	5.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-12	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
49	1.05E-14	2.52E-15	4.25E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-15	1.35E-14	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	2.91E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-12	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	6.22E-15	1.43E-13	1.86E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-13	1.68E-13	0.00%	In[1,2,3-cd]pyr
56	1.02E-14	2.34E-13	3.03E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-13	2.74E-13	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	4.01E-14	9.21E-13	1.20E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-12	1.08E-12	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	7.88E-15	1.81E-13	2.35E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-13	2.12E-13	0.00%	Chrysene
61	7.94E-15	5.51E-15	9.31E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-15	1.44E-14	0.00%	alphaHexClCycHx
62	2.20E-13	1.53E-13	2.59E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-13	3.99E-13	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
65	5.21E-12	9.72E-12	1.64E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-11	3.13E-11	0.01%	Lead
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
67	2.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-11	0.01%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	8.69E-11	4.00E-10	1.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-10	6.56E-10	0.27%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	3.55E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-12	0.00%	Beryllium
74	1.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-11	0.01%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	2.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-10	0.11%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.39E-07	4.87E-10	1.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-10	2.40E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source	
1	1.30E-11	4.88E-13	1.96E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-13	1.37E-11	0.01%	STKP_L_S	
2	1.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-10	0.08%	TRUCK_S	
3	3.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-10	0.17%	TRUCK_N	
4	2.78E-11	8.30E-13	3.33E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-12	2.89E-11	0.01%	STKP_L_N	
5	7.35E-12	8.57E-12	3.44E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-11	1.94E-11	0.01%	HAUL_S	
6	2.89E-11	2.89E-11	1.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-11	6.94E-11	0.03%	HAUL_N	
7	6.07E-12	7.08E-12	2.84E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-12	1.60E-11	0.01%	2_1	
8	9.96E-10	2.98E-14	1.30E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-14	9.96E-10	0.42%	2_2	
9	1.93E-11	2.26E-11	9.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-11	5.09E-11	0.02%		5
10	1.71E-09	2.60E-12	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-12	1.72E-09	0.72%	7_1	
11	4.42E-10	2.19E-12	8.79E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-12	4.45E-10	0.19%	7_2	
12	8.49E-12	5.21E-12	2.09E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-12	1.58E-11	0.01%		9
13	5.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-10	0.25%		10
14	3.00E-11	3.50E-11	1.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-11	7.91E-11	0.03%		1
15	2.56E-08	3.65E-11	1.47E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-11	2.56E-08	10.67%	3_1	
16	1.47E-07	3.06E-10	1.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-10	1.47E-07	61.25%	3_2	
17	8.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-09	3.48%	4_1	
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		6
19	3.83E-11	3.10E-11	1.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-11	8.17E-11	0.03%		8
20	4.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-09	1.72%	2_1D	
21	4.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-11	0.02%	OFF_S	
22	2.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-10	0.11%	STKP_LSD	
23	4.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-10	0.20%	STKP_LND	
24	2.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-10	0.09%	HAUL_SD	
25	5.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-10	0.22%	HAUL_ND	
26	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-09	1.02%	9D	
27	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-09	1.85%	5D	
28	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-08	5.17%	6D	
29	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-09	2.25%	8D	
30	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-08	9.04%	1D	
31	1.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-10	0.06%	OFF_N	
32	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-09	0.62%	BENZ_1	
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4	
34	2.50E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-15	0.00%	AW_8	
35	4.59E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-14	0.00%	B_7	
SUM	2.39E-07	4.87E-10	1.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-10	2.40E-07			

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	2.20E-03	4.84%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-02	0.00E+00	0.00E+00	3.01E-02	66.15%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	1.26E-05	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	1.26E-05	0.00%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	1.70E-07	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05	0.00E+00	0.00E+00	8.06E-05	0.18%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	1.17E-06	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	2.64E-06	2.64E-06	0.00E+00	2.64E-06	0.00E+00	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-06	0.00%	Ethyl Benzene
39	0.00E+00	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-07	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.80E-07	0.00%	p-Xylene
43	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00%	EDB
45	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	5.11E-06	0.01%	m-Xylene
46	0.00E+00	7.55E-06	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06	0.02%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-08	0.00E+00	1.05E-08	1.05E-08	0.00E+00	0.00E+00	0.00E+00	1.05E-08	0.00%	Chlorobenzn
48	4.12E-10	4.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	0.00E+00	4.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00E+00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	6.30E-06	0.01%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	1.44E-05	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	1.36E-03	1.36E-03	2.99%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.16E-02	1.16E-02	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	1.16E-02	0.00E+00	1.16E-02	25.49%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-07	4.22E-05	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	4.22E-05	0.09%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	3.31E-05	0.00E+00	0.00E+00	3.63E-05	0.07%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	1.20E-07	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	6.94E-08	1.88E-06	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.16E-02	1.17E-02	0.00E+00	1.17E-02	2.64E-06	0.00E+00	7.34E-06	4.22E-05	5.62E-05	1.88E-05	4.55E-02	1.16E-02	1.37E-03	4.55E-02		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.17E-05	1.28E-05	0.00E+00	1.25E-05	8.92E-08	0.00E+00	2.28E-07	4.22E-08	2.35E-07	6.38E-07	1.65E-05	1.17E-05	1.79E-06	1.65E-05	0.04%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.41E-05	0.05%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	5.07E-05	0.11%	TRUCK_N
4	1.99E-05	2.23E-05	0.00E+00	2.16E-05	1.92E-07	0.00E+00	4.89E-07	7.19E-08	4.81E-07	1.37E-06	2.95E-05	1.99E-05	3.24E-06	2.95E-05	0.06%	STKP_L_N
5	2.05E-04	2.05E-04	0.00E+00	2.05E-04	0.00E+00	0.00E+00	1.17E-08	7.43E-07	8.95E-07	0.00E+00	2.30E-04	2.05E-04	2.40E-05	2.30E-04	0.51%	HAUL_S
6	6.93E-04	6.94E-04	0.00E+00	6.95E-04	2.89E-08	0.00E+00	1.13E-07	2.50E-06	3.08E-06	2.08E-07	7.79E-04	6.93E-04	8.09E-05	7.79E-04	1.71%	HAUL_N
7	1.69E-04	1.70E-04	0.00E+00	1.70E-04	0.00E+00	0.00E+00	9.69E-09	6.15E-07	7.39E-07	0.00E+00	1.90E-04	1.69E-04	1.98E-05	1.90E-04	0.42%	2_1
8	8.53E-07	8.63E-07	0.00E+00	8.60E-07	4.68E-10	0.00E+00	4.69E-10	0.00E+00	7.98E-09	0.00E+00	1.29E-04	8.53E-07	1.15E-07	1.29E-04	0.28%	2_2
9	5.40E-04	5.41E-04	0.00E+00	5.41E-04	0.00E+00	0.00E+00	3.09E-08	1.96E-06	2.36E-06	0.00E+00	2.10E-03	5.40E-04	6.31E-05	2.10E-03	4.62%	5
10	6.22E-05	6.23E-05	0.00E+00	6.23E-05	0.00E+00	0.00E+00	3.54E-09	2.25E-07	2.71E-07	0.00E+00	2.88E-04	6.22E-05	7.24E-06	2.88E-04	0.63%	7_1
11	5.24E-05	5.25E-05	0.00E+00	5.26E-05	0.00E+00	0.00E+00	2.99E-09	1.90E-07	2.29E-07	0.00E+00	1.15E-04	5.24E-05	6.11E-06	1.15E-04	0.25%	7_2
12	1.25E-04	1.25E-04	0.00E+00	1.25E-04	2.87E-08	0.00E+00	8.01E-08	4.51E-07	6.03E-07	2.05E-07	1.41E-04	1.25E-04	1.47E-05	1.41E-04	0.31%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	7.60E-05	0.17%	10
14	8.38E-04	8.39E-04	0.00E+00	8.40E-04	0.00E+00	0.00E+00	4.79E-08	3.04E-06	3.66E-06	0.00E+00	9.42E-04	8.38E-04	9.79E-05	9.42E-04	2.07%	1
15	8.73E-04	8.75E-04	0.00E+00	8.76E-04	3.78E-08	0.00E+00	1.46E-07	3.16E-06	3.87E-06	2.69E-07	4.27E-03	8.73E-04	1.02E-04	4.27E-03	9.38%	3_1
16	7.31E-03	7.35E-03	0.00E+00	7.35E-03	2.18E-06	0.00E+00	5.92E-06	2.65E-05	3.64E-05	1.55E-05	2.76E-02	7.31E-03	8.67E-04	2.76E-02	60.66%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	1.06E-03	2.33%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	7.41E-04	7.43E-04	0.00E+00	7.44E-04	8.42E-08	0.00E+00	2.56E-07	2.68E-06	3.39E-06	5.99E-07	8.36E-04	7.41E-04	8.68E-05	8.36E-04	1.84%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	5.25E-04	1.15%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	5.62E-06	0.01%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.37E-05	0.07%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	5.99E-05	0.13%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	2.75E-05	0.06%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	6.70E-05	0.15%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04	0.69%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	5.66E-04	1.24%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	1.58E-03	3.47%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	6.89E-04	1.51%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.76E-03	6.07%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.97E-05	0.04%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	2.37E-10	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	2.37E-10	0.00%	B_4
34	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	AW_8
35	0.00E+00	1.85E-09	0.00E+00	2.99E-09	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.22E-09	0.00E+00	1.85E-09	2.99E-09	0.00%	B_7
SUM	1.16E-02	1.17E-02	0.00E+00	1.17E-02	2.64E-06	0.00E+00	7.34E-06	4.22E-05	5.62E-05	1.88E-05	4.55E-02	1.16E-02	1.37E-03	4.55E-02		

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM		CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
	1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
	2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
	4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
	5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
	6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
	7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
	8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
	9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
	10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
	11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
	12	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.80E-04	1.80E-04	0.17%	Benzene
	13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
	14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
	15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
	16	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00%	Methylene Chlor
	17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
	18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
	19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
	21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07	0.00E+00	0.00E+00	6.05E-07	0.00%	MEK
	22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
	23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
	24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
	25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
	26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
	27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
	28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
	29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
	31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
	32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
	33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	1.15E-05	0.00%	o-Xylene
	34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
	35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
	36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
	37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
	38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
	39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06	0.00%	Styrene
	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
	41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
	42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	4.72E-06	0.00%	p-Xylene
	43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
	44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
	45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.02E-05	0.00%	m-Xylene
	46	0.00E+00	1.88E-05	0.00E+00	1.88E-05	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05	0.00E+00	0.00E+00	1.88E-05	0.00%	Toluene
	47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
	48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	1.62E-08	0.00%	Phenol
	49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
	51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
	52	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	1.50E-06	0.00%	Perc
	53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
	54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
	55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
	56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
	57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
	58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
	59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
	61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
	62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
	63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
	64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	6.19E-05	0.00%	Xylenes
	65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
	66	0.00E+00	2.05E-04	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00%	Mercury
	67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	######	Nickel
	68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
	69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
	71	2.89E-02	2.89E-02	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-02	0.00%	Arsenic
	72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
	73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
	74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
	75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
	76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
	77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	2.88E-03	0.00%	Copper
	78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	9.14E-04	0.00%	Vanadium
	79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
	81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
	82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM		2.89E-02	2.91E-02	0.00E+00	2.93E-02	0.00E+00	1.07E-03	0.00E+00	1.09E-01	0.00E+00	1.99E-04	3.95E-03	0.00E+00	1.80E-04	1.09E-01		

Acute Risk by Source

SRC		CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source	
	1	5.40E-05	5.51E-05	0.00E+00	6.07E-05	0.00E+00	6.53E-06	0.00E+00	2.09E-04	0.00E+00	6.24E-06	1.19E-05	0.00E+00	5.65E-06	2.09E-04	0.19%	STKP_L_S	
	2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S	
	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N	
	4	1.82E-04	1.86E-04	0.00E+00	2.13E-04	0.00E+00	2.90E-05	0.00E+00	7.10E-04	0.00E+00	3.00E-05	4.71E-05	0.00E+00	2.71E-05	7.10E-04	0.65%	STKP_L_N	
	5	8.64E-04	8.70E-04	0.00E+00	8.70E-04	0.00E+00	2.74E-05	0.00E+00	3.25E-03	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	3.25E-03	2.98%	HAUL_S	
	6	2.51E-03	2.54E-03	0.00E+00	2.58E-03	0.00E+00	1.19E-04	0.00E+00	9.50E-03	0.00E+00	5.13E-05	3.69E-04	0.00E+00	4.65E-05	9.50E-03	8.72%	HAUL_N	
	7	1.45E-03	1.46E-03	0.00E+00	1.46E-03	0.00E+00	4.59E-05	0.00E+00	5.47E-03	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	5.47E-03	5.02%	2_1	
	8	4.49E-07	4.64E-07	0.00E+00	4.64E-07	0.00E+00	1.84E-07	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.95E-06	0.00%	2_2	
	9	5.26E-04	5.30E-04	0.00E+00	5.30E-04	0.00E+00	1.66E-05	0.00E+00	1.98E-03	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	1.98E-03	1.82%		5
	10	5.09E-04	5.13E-04	0.00E+00	5.13E-04	0.00E+00	1.61E-05	0.00E+00	1.91E-03	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	1.91E-03	1.75%	7_1	
	11	7.61E-04	7.66E-04	0.00E+00	7.66E-04	0.00E+00	2.40E-05	0.00E+00	2.87E-03	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	2.87E-03	2.63%	7_2	
	12	5.77E-03	5.81E-03	0.00E+00	5.84E-03	0.00E+00	2.01E-04	0.00E+00	2.16E-02	0.00E+00	2.48E-05	7.77E-04	0.00E+00	2.24E-05	2.16E-02	19.82%		9
	13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		10
	14	2.59E-04	2.61E-04	0.00E+00	2.61E-04	0.00E+00	8.17E-06	0.00E+00	9.71E-04	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	9.71E-04	0.89%		1
	15	2.46E-03	2.48E-03	0.00E+00	2.48E-03	0.00E+00	8.26E-05	0.00E+00	9.26E-03	0.00E+00	6.40E-06	3.27E-04	0.00E+00	5.79E-06	9.26E-03	8.50%	3_1	
	16	5.15E-03	5.19E-03	0.00E+00	5.23E-03	0.00E+00	1.97E-04	0.00E+00	1.94E-02	0.00E+00	4.43E-05	7.10E-04	0.00E+00	4.01E-05	1.94E-02	17.80%	3_2	
	17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1	
	18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		6
	19	8.40E-03	8.46E-03	0.00E+00	8.50E-03	0.00E+00	2.94E-04	0.00E+00	3.16E-02	0.00E+00	3.57E-05	1.13E-03	0.00E+00	3.23E-05	3.16E-02	28.99%		8
	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D	
	21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S	
	22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD	
	23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND	
	24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD	
	25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND	
	26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D	
	27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D	
	28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D	
	29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D	
	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D	
	31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N	
	32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1	
	33	0.00E+00	1.32E-10	0.00E+00	1.32E-10	0.00E+00	6.35E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-10	6.35E-10	0.00E+00	0.00E+00	6.35E-10	0.00%	B_4	
	34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8	
	35	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	1.42E-08	1.42E-08	0.00%	B_7	
SUM		2.89E-02	2.91E-02	0.00E+00	2.93E-02	0.00E+00	1.07E-03	0.00E+00	1.09E-01	0.00E+00	1.99E-04	3.95E-03	0.00E+00	1.80E-04	1.09E-01			

ASCON Health Risk Assessment

Fire Station and Park Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	9.28E-08	1.71E-02	1.35E-01
2	1.17E-07	2.17E-02	1.60E-01
3	1.61E-07	3.00E-02	2.02E-01
4	2.75E-07	5.13E-02	2.60E-01
5	5.40E-07	1.00E-01	2.61E-01
6	5.38E-07	1.01E-01	2.42E-01
7	6.02E-07	1.15E-01	2.29E-01
8	6.52E-07	1.24E-01	1.88E-01
9	6.86E-07	1.31E-01	1.76E-01
10	6.75E-07	1.29E-01	1.66E-01
11	6.38E-07	1.22E-01	1.76E-01
12	5.40E-07	1.03E-01	1.91E-01
13	2.10E-07	3.93E-02	1.80E-01
14	2.57E-07	4.82E-02	1.65E-01
15	2.90E-07	5.46E-02	1.57E-01
16	3.06E-07	5.78E-02	1.43E-01
17	3.23E-07	6.12E-02	1.34E-01
18	3.32E-07	6.29E-02	1.33E-01
19	3.19E-07	6.05E-02	1.39E-01
20	2.87E-07	5.44E-02	1.36E-01
21	1.35E-07	2.53E-02	1.39E-01
22	1.58E-07	2.98E-02	1.32E-01
23	1.78E-07	3.35E-02	1.27E-01
24	1.90E-07	3.59E-02	1.20E-01
25	1.99E-07	3.77E-02	1.15E-01
26	2.05E-07	3.87E-02	1.14E-01
27	2.00E-07	3.78E-02	1.14E-01
28	1.88E-07	3.55E-02	1.09E-01
29	9.72E-08	1.83E-02	1.14E-01
30	1.09E-07	2.04E-02	1.12E-01
31	1.22E-07	2.29E-02	1.08E-01
32	1.31E-07	2.48E-02	1.04E-01
33	1.38E-07	2.60E-02	1.02E-01
34	1.40E-07	2.65E-02	9.96E-02
35	1.39E-07	2.62E-02	9.85E-02
36	1.34E-07	2.53E-02	9.38E-02
37	7.46E-08	1.40E-02	9.80E-02
38	8.06E-08	1.52E-02	9.64E-02
39	8.97E-08	1.69E-02	9.38E-02
40	9.58E-08	1.81E-02	9.11E-02
41	1.00E-07	1.89E-02	9.08E-02
42	1.02E-07	1.93E-02	8.95E-02
43	1.03E-07	1.94E-02	8.69E-02

ASCON Health Risk Assessment

Fire Station and Park Cancer, Chronic, and Acute Risk (All Receptors)

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	1.01E-07	1.90E-02	8.35E-02
45	6.00E-08	1.13E-02	8.60E-02
46	6.47E-08	1.22E-02	8.53E-02
47	6.93E-08	1.30E-02	8.20E-02
48	7.33E-08	1.38E-02	8.28E-02
49	7.64E-08	1.44E-02	8.07E-02
50	7.84E-08	1.48E-02	8.06E-02
51	7.88E-08	1.49E-02	7.79E-02
52	7.85E-08	1.48E-02	7.46E-02
53	4.95E-08	9.31E-03	7.66E-02
54	5.25E-08	9.88E-03	7.68E-02
55	5.54E-08	1.04E-02	7.32E-02
56	5.81E-08	1.09E-02	7.49E-02
57	6.04E-08	1.14E-02	7.32E-02
58	6.21E-08	1.17E-02	7.27E-02
59	6.25E-08	1.18E-02	7.00E-02
60	6.31E-08	1.19E-02	6.78E-02
61	4.16E-08	7.83E-03	6.91E-02
62	4.36E-08	8.20E-03	6.94E-02
63	4.55E-08	8.56E-03	6.79E-02
64	4.74E-08	8.91E-03	6.85E-02
65	4.91E-08	9.24E-03	6.66E-02
66	5.05E-08	9.50E-03	6.53E-02
67	5.14E-08	9.68E-03	6.37E-02
68	5.19E-08	9.77E-03	6.24E-02
69	3.56E-08	6.70E-03	6.31E-02
70	3.69E-08	6.94E-03	6.39E-02

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-07	98.43%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	2.14E-12	4.90E-11	6.37E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-11	5.75E-11	0.02%	B[a]P
6	6.82E-12	5.09E-11	6.61E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-11	6.43E-11	0.02%	D[a,h]anthracen
7	8.39E-15	1.93E-13	2.50E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-13	2.26E-13	0.00%	B[a]anthracene
8	1.63E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-12	0.00%	Chlordane
9	6.99E-14	4.85E-14	8.20E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-14	1.27E-13	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-10	0.04%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	2.59E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-15	0.00%	DiClDiPhEthylen
16	4.39E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-13	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	1.59E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-13	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	2.34E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-12	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	1.61E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-10	0.05%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	9.63E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-14	0.00%	3,3'DiClBenzidn
32	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-09	0.84%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	8.61E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-11	0.03%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	8.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-11	0.03%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
43	4.21E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-15	0.00%	p-DiClBenzene
44	6.96E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-12	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
49	1.37E-14	3.28E-15	5.54E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-15	1.75E-14	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	3.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-12	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	8.28E-15	1.90E-13	2.47E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-13	2.23E-13	0.00%	In[1,2,3-cd]pyr
56	1.35E-14	3.11E-13	4.04E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-13	3.65E-13	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	5.34E-14	1.23E-12	1.59E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-12	1.44E-12	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	1.05E-14	2.41E-13	3.13E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-13	2.83E-13	0.00%	Chrysene
61	1.06E-14	7.34E-15	1.24E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-15	1.91E-14	0.00%	alphaHexClCycHx
62	2.93E-13	2.04E-13	3.44E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-13	5.32E-13	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
65	6.94E-12	1.29E-11	2.19E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-11	4.17E-11	0.01%	Lead
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
67	3.30E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-11	0.01%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.16E-10	5.33E-10	2.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-10	8.74E-10	0.27%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	4.72E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-12	0.00%	Beryllium
74	1.89E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-11	0.01%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	3.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-10	0.11%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	3.18E-07	6.48E-10	2.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-10	3.19E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	1.67E-11	6.27E-13	2.52E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-13	1.76E-11	0.01%	STKP_L_S
2	1.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-10	0.05%	TRUCK_S
3	3.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-10	0.11%	TRUCK_N
4	2.86E-11	8.56E-13	3.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-12	2.98E-11	0.01%	STKP_L_N
5	9.51E-12	1.11E-11	4.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-11	2.50E-11	0.01%	HAUL_S
6	3.83E-11	3.84E-11	1.54E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-11	9.22E-11	0.03%	HAUL_N
7	5.46E-12	6.37E-12	2.56E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-12	1.44E-11	0.00%	2_1
8	9.21E-10	2.76E-14	1.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-14	9.21E-10	0.29%	2_2
9	2.52E-11	2.95E-11	1.19E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-11	6.66E-11	0.02%	5
10	2.96E-09	4.49E-12	1.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-12	2.97E-09	0.93%	7_1
11	4.08E-10	2.02E-12	8.12E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-12	4.11E-10	0.13%	7_2
12	1.05E-11	6.47E-12	2.60E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-12	1.96E-11	0.01%	9
13	7.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-10	0.25%	10
14	3.94E-11	4.60E-11	1.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-11	1.04E-10	0.03%	1
15	4.10E-08	5.86E-11	2.35E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-11	4.11E-08	12.88%	3_1
16	1.92E-07	4.00E-10	1.61E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-10	1.93E-07	60.50%	3_2
17	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-09	3.01%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	5.41E-11	4.38E-11	1.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-11	1.15E-10	0.04%	8
20	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-09	1.16%	2_1D
21	4.23E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-11	0.01%	OFF_S
22	3.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-10	0.11%	STKP_LSD
23	4.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-10	0.15%	STKP_LND
24	2.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-10	0.09%	HAUL_SD
25	7.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-10	0.22%	HAUL_ND
26	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-09	0.96%	9D
27	5.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-09	1.82%	5D
28	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	5.08%	6D
29	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-09	2.37%	8D
30	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-08	8.93%	1D
31	2.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-10	0.08%	OFF_N
32	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-09	0.84%	BENZ_1
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	4.21E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-15	0.00%	AW_8
35	4.03E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-14	0.00%	B_7
SUM	3.18E-07	6.48E-10	2.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-10	3.19E-07		

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	2.89E-03	4.78%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-02	0.00E+00	0.00E+00	4.00E-02	66.12%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	1.63E-05	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	1.63E-05	0.00%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	2.19E-07	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-07	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	1.04E-04	0.17%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06	0.00E+00	0.00E+00	1.52E-06	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	3.41E-06	3.41E-06	0.00E+00	3.41E-06	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00%	Ethyl Benzene
39	0.00E+00	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-07	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-07	0.00E+00	0.00E+00	6.22E-07	0.00%	p-Xylene
43	0.00E+00	9.22E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	0.00E+00	9.22E-11	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00%	EDB
45	0.00E+00	6.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06	0.00E+00	0.00E+00	6.62E-06	0.01%	m-Xylene
46	0.00E+00	9.77E-06	0.00E+00	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	9.77E-06	0.02%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-08	0.00E+00	1.36E-08	1.36E-08	0.00E+00	0.00E+00	0.00E+00	1.36E-08	0.00%	Chlorobenzn
48	5.48E-10	5.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-10	0.00E+00	5.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-10	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06	0.00E+00	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	8.16E-06	0.01%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	1.92E-05	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	1.81E-03	1.81E-03	2.99%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	1.55E-02	1.55E-02	0.00E+00	1.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02	1.55E-02	0.00E+00	1.55E-02	25.62%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-07	5.62E-05	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	5.62E-05	0.09%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	4.41E-05	0.00E+00	0.00E+00	4.84E-05	0.07%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	1.60E-07	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-06	0.00E+00	9.23E-08	2.50E-06	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.55E-02	1.56E-02	0.00E+00	1.56E-02	3.41E-06	0.00E+00	9.53E-06	5.62E-05	7.46E-05	2.44E-05	6.05E-02	1.55E-02	1.83E-03	6.05E-02		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.50E-05	1.65E-05	0.00E+00	1.60E-05	1.15E-07	0.00E+00	2.93E-07	5.43E-08	3.02E-07	8.21E-07	2.12E-05	1.50E-05	2.31E-06	2.12E-05	0.04%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	2.20E-05	0.04%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.42E-05	0.07%	TRUCK_N
4	2.05E-05	2.30E-05	0.00E+00	2.22E-05	1.98E-07	0.00E+00	5.04E-07	7.41E-08	4.96E-07	1.42E-06	3.05E-05	2.05E-05	3.34E-06	3.05E-05	0.05%	STKP_L_N
5	2.65E-04	2.65E-04	0.00E+00	2.66E-04	0.00E+00	0.00E+00	1.51E-08	9.61E-07	1.16E-06	0.00E+00	2.98E-04	2.65E-04	3.10E-05	2.98E-04	0.49%	HAUL_S
6	9.20E-04	9.22E-04	0.00E+00	9.22E-04	3.84E-08	0.00E+00	1.50E-07	3.32E-06	4.09E-06	2.76E-07	1.03E-03	9.20E-04	1.07E-04	1.03E-03	1.70%	HAUL_N
7	1.52E-04	1.53E-04	0.00E+00	1.53E-04	0.00E+00	0.00E+00	8.71E-09	5.53E-07	6.65E-07	0.00E+00	1.71E-04	1.52E-04	1.78E-05	1.71E-04	0.28%	2_1
8	7.89E-07	7.98E-07	0.00E+00	7.95E-07	4.33E-10	0.00E+00	4.33E-10	0.00E+00	7.38E-09	0.00E+00	1.20E-04	7.89E-07	1.06E-07	1.20E-04	0.20%	2_2
9	7.06E-04	7.07E-04	0.00E+00	7.08E-04	0.00E+00	0.00E+00	4.05E-08	2.57E-06	3.08E-06	0.00E+00	2.74E-03	7.06E-04	8.26E-05	2.74E-03	4.53%	5
10	1.07E-04	1.08E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	6.12E-09	3.88E-07	4.68E-07	0.00E+00	4.97E-04	1.07E-04	1.25E-05	4.97E-04	0.82%	7_1
11	4.84E-05	4.85E-05	0.00E+00	4.85E-05	0.00E+00	0.00E+00	2.76E-09	1.75E-07	2.11E-07	0.00E+00	1.06E-04	4.84E-05	5.64E-06	1.06E-04	0.18%	7_2
12	1.55E-04	1.55E-04	0.00E+00	1.56E-04	3.56E-08	0.00E+00	9.95E-08	5.60E-07	7.49E-07	2.54E-07	1.75E-04	1.55E-04	1.83E-05	1.75E-04	0.29%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	9.98E-05	0.16%	10
14	1.10E-03	1.10E-03	0.00E+00	1.10E-03	0.00E+00	0.00E+00	6.28E-08	3.99E-06	4.80E-06	0.00E+00	1.24E-03	1.10E-03	1.28E-04	1.24E-03	2.05%	1
15	1.40E-03	1.41E-03	0.00E+00	1.41E-03	6.08E-08	0.00E+00	2.34E-07	5.07E-06	6.22E-06	4.32E-07	6.86E-03	1.40E-03	1.64E-04	6.86E-03	11.34%	3_1
16	9.56E-03	9.61E-03	0.00E+00	9.61E-03	2.85E-06	0.00E+00	7.75E-06	3.47E-05	4.76E-05	2.03E-05	3.61E-02	9.56E-03	1.13E-03	3.61E-02	59.67%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	1.22E-03	2.02%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	1.05E-03	1.05E-03	0.00E+00	1.05E-03	1.19E-07	0.00E+00	3.62E-07	3.78E-06	4.79E-06	8.47E-07	1.18E-03	1.05E-03	1.23E-04	1.18E-03	1.95%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	4.73E-04	0.78%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	5.39E-06	0.01%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	4.38E-05	0.07%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	6.29E-05	0.10%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	3.56E-05	0.06%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	8.92E-05	0.15%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	3.91E-04	0.65%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	7.41E-04	1.22%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	2.06E-03	3.40%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00	0.00E+00	9.61E-04	1.59%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	3.63E-03	5.98%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	3.07E-05	0.05%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	2.97E-10	0.00E+00	1.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-10	0.00E+00	0.00E+00	2.97E-10	0.00%	B_4
34	0.00E+00	9.22E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	0.00E+00	9.22E-11	0.00%	AW_8
35	0.00E+00	1.62E-09	0.00E+00	2.62E-09	9.94E-10	0.00E+00	9.94E-10	0.00E+00	9.94E-10	0.00E+00	1.07E-09	0.00E+00	1.62E-09	2.62E-09	0.00%	B_7
SUM	1.55E-02	1.56E-02	0.00E+00	1.56E-02	3.41E-06	0.00E+00	9.53E-06	5.62E-05	7.46E-05	2.44E-05	6.05E-02	1.55E-02	1.83E-03	6.05E-02		

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	2.22E-04	0.16%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-06	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-07	0.00E+00	0.00E+00	7.42E-07	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	1.42E-05	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	5.64E-06	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	5.83E-06	0.00%	p-Xylene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	6.20E-05	0.00%	m-Xylene
46	0.00E+00	2.33E-05	0.00E+00	2.33E-05	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	2.33E-05	2.33E-05	0.00E+00	0.00E+00	2.33E-05	0.00%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-08	0.00E+00	0.00E+00	2.06E-08	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	1.85E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	7.64E-05	0.00%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	2.61E-04	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	99.28%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	3.68E-02	3.68E-02	0.00E+00	3.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-02	0.00%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03	0.00E+00	0.00E+00	3.67E-03	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	1.16E-03	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	3.68E-02	3.71E-02	0.00E+00	3.73E-02	0.00E+00	1.35E-03	0.00E+00	1.39E-01	0.00E+00	2.46E-04	5.02E-03	0.00E+00	2.22E-04	1.39E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	7.05E-05	7.19E-05	0.00E+00	7.91E-05	0.00E+00	8.52E-06	0.00E+00	2.72E-04	0.00E+00	8.15E-06	1.56E-05	0.00E+00	7.38E-06	2.72E-04	0.20%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	2.17E-04	2.23E-04	0.00E+00	2.55E-04	0.00E+00	3.47E-05	0.00E+00	8.49E-04	0.00E+00	3.59E-05	5.63E-05	0.00E+00	3.24E-05	8.49E-04	0.61%	STKP_L_N
5	1.05E-03	1.06E-03	0.00E+00	1.06E-03	0.00E+00	3.32E-05	0.00E+00	3.95E-03	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	3.95E-03	2.84%	HAUL_S
6	2.91E-03	2.94E-03	0.00E+00	2.99E-03	0.00E+00	1.38E-04	0.00E+00	1.10E-02	0.00E+00	5.94E-05	4.28E-04	0.00E+00	5.38E-05	1.10E-02	7.91%	HAUL_N
7	1.47E-03	1.48E-03	0.00E+00	1.48E-03	0.00E+00	4.63E-05	0.00E+00	5.51E-03	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	5.51E-03	3.96%	2_1
8	4.49E-07	4.64E-07	0.00E+00	4.64E-07	0.00E+00	1.84E-07	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.95E-06	0.00%	2_2
9	5.33E-04	5.37E-04	0.00E+00	5.37E-04	0.00E+00	1.68E-05	0.00E+00	2.01E-03	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	2.01E-03	1.45%	5
10	7.21E-04	7.26E-04	0.00E+00	7.26E-04	0.00E+00	2.28E-05	0.00E+00	2.71E-03	0.00E+00	0.00E+00	9.44E-05	0.00E+00	0.00E+00	2.71E-03	1.95%	7_1
11	7.34E-04	7.39E-04	0.00E+00	7.39E-04	0.00E+00	2.32E-05	0.00E+00	2.77E-03	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	2.77E-03	1.99%	7_2
12	7.10E-03	7.15E-03	0.00E+00	7.18E-03	0.00E+00	2.48E-04	0.00E+00	2.66E-02	0.00E+00	3.05E-05	9.56E-04	0.00E+00	2.76E-05	2.66E-02	19.14%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	10
14	2.62E-04	2.64E-04	0.00E+00	2.64E-04	0.00E+00	8.27E-06	0.00E+00	9.83E-04	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	9.83E-04	0.71%	1
15	2.23E-03	2.25E-03	0.00E+00	2.26E-03	0.00E+00	7.51E-05	0.00E+00	8.42E-03	0.00E+00	5.82E-06	2.98E-04	0.00E+00	5.27E-06	8.42E-03	6.06%	3_1
16	5.21E-03	5.25E-03	0.00E+00	5.29E-03	0.00E+00	1.99E-04	0.00E+00	1.97E-02	0.00E+00	4.49E-05	7.19E-04	0.00E+00	4.07E-05	1.97E-02	14.17%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	1.43E-02	1.44E-02	0.00E+00	1.45E-02	0.00E+00	5.00E-04	0.00E+00	5.38E-02	0.00E+00	6.08E-05	1.93E-03	0.00E+00	5.51E-05	5.38E-02	38.71%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	1.63E-10	0.00E+00	1.63E-10	0.00E+00	7.86E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-10	7.86E-10	0.00E+00	0.00E+00	7.86E-10	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	1.41E-08	1.41E-08	0.00%	B_7
SUM	3.68E-02	3.71E-02	0.00E+00	3.73E-02	0.00E+00	1.35E-03	0.00E+00	1.39E-01	0.00E+00	2.46E-04	5.02E-03	0.00E+00	2.22E-04	1.39E-01		

ASCON Health Risk Assessment

MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 4

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	4.32E-04	0.00E+00	0.00E+00	4.32E-04	4.32E-04	0.61%	Benzene
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
16	0.00E+00	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06	0.00%	Methylene Chlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	1.41E-06	0.00%	MEK
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.76E-05	0.00%	o-Xylene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	1.08E-05	0.00%	Styrene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.13E-05	0.00%	p-Xylene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	1.20E-04	0.00%	m-Xylene
46	0.00E+00	4.52E-05	0.00E+00	4.52E-05	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	4.52E-05	4.52E-05	0.00E+00	0.00E+00	4.52E-05	0.06%	Toluene
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-08	0.00E+00	0.00E+00	3.89E-08	0.00%	Phenol
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
52	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	3.60E-06	0.00%	Perc
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	1.48E-04	0.00%	Xylenes
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
66	0.00E+00	4.93E-04	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.70%	Mercury
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	0.00%	Nickel
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
71	6.95E-02	6.95E-02	0.00E+00	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-02	98.72%	Arsenic
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	6.92E-03	0.00%	Copper
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	2.20E-03	0.00%	Vanadium
79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	6.95E-02	7.00E-02	0.00E+00	7.04E-02	0.00E+00	2.56E-03	0.00E+00	2.61E-01	0.00E+00	4.77E-04	9.48E-03	0.00E+00	4.32E-04	2.61E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.33E-04	1.35E-04	0.00E+00	1.49E-04	0.00E+00	1.60E-05	0.00E+00	5.13E-04	0.00E+00	1.53E-05	2.93E-05	0.00E+00	1.39E-05	5.13E-04	0.21%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	1.93E-04	1.98E-04	0.00E+00	2.26E-04	0.00E+00	3.07E-05	0.00E+00	7.52E-04	0.00E+00	3.18E-05	4.99E-05	0.00E+00	2.87E-05	7.52E-04	0.32%	STKP_L_N
5	6.16E-03	6.21E-03	0.00E+00	6.21E-03	0.00E+00	1.95E-04	0.00E+00	2.32E-02	0.00E+00	0.00E+00	8.10E-04	0.00E+00	0.00E+00	2.32E-02	8.82%	HAUL_S
6	1.15E-02	1.16E-02	0.00E+00	1.18E-02	0.00E+00	5.45E-04	0.00E+00	4.34E-02	0.00E+00	2.35E-04	1.69E-03	0.00E+00	2.12E-04	4.34E-02	16.76%	HAUL_N
7	1.15E-03	1.15E-03	0.00E+00	1.15E-03	0.00E+00	3.62E-05	0.00E+00	4.30E-03	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	4.30E-03	1.63%	2_1
8	3.38E-07	3.49E-07	0.00E+00	3.49E-07	0.00E+00	1.38E-07	0.00E+00	1.47E-06	0.00E+00	0.00E+00	1.45E-07	0.00E+00	0.00E+00	1.47E-06	0.00%	2_2
9	7.16E-04	7.21E-04	0.00E+00	7.21E-04	0.00E+00	2.26E-05	0.00E+00	2.70E-03	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	2.70E-03	1.02%	5
10	8.63E-03	8.70E-03	0.00E+00	8.70E-03	0.00E+00	2.73E-04	0.00E+00	3.24E-02	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	3.24E-02	12.36%	7_1
11	7.42E-04	7.47E-04	0.00E+00	7.47E-04	0.00E+00	2.34E-05	0.00E+00	2.79E-03	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	2.79E-03	1.06%	7_2
12	1.54E-02	1.55E-02	0.00E+00	1.56E-02	0.00E+00	5.38E-04	0.00E+00	5.78E-02	0.00E+00	6.62E-05	2.08E-03	0.00E+00	5.99E-05	5.78E-02	22.16%	9
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	10
14	3.48E-04	3.51E-04	0.00E+00	3.51E-04	0.00E+00	1.10E-05	0.00E+00	1.31E-03	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	1.31E-03	0.50%	1
15	3.44E-03	3.47E-03	0.00E+00	3.47E-03	0.00E+00	1.16E-04	0.00E+00	1.30E-02	0.00E+00	8.97E-06	4.59E-04	0.00E+00	8.12E-06	1.30E-02	4.93%	3_1
16	7.00E-03	7.06E-03	0.00E+00	7.11E-03	0.00E+00	2.67E-04	0.00E+00	2.64E-02	0.00E+00	6.03E-05	9.66E-04	0.00E+00	5.46E-05	2.64E-02	10.10%	3_2
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4_1
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6
19	1.40E-02	1.41E-02	0.00E+00	1.42E-02	0.00E+00	4.90E-04	0.00E+00	5.27E-02	0.00E+00	5.96E-05	1.89E-03	0.00E+00	5.40E-05	5.27E-02	20.17%	8
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	9D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5D
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6D
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8D
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1D
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
33	0.00E+00	2.66E-10	0.00E+00	2.66E-10	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	2.66E-10	1.28E-09	0.00E+00	0.00E+00	1.28E-09	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	1.21E-08	0.00E+00	1.21E-08	0.00E+00	0.00E+00	1.21E-08	1.21E-08	0.00%	B_7
SUM	6.95E-02	7.00E-02	0.00E+00	7.04E-02	0.00E+00	2.56E-03	0.00E+00	2.61E-01	0.00E+00	4.77E-04	9.48E-03	0.00E+00	4.32E-04	2.61E-01		

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	3.27E-07	1.84E-02	4.82E-01
2	2.52E-07	1.55E-02	4.84E-01
3	2.24E-07	1.43E-02	4.69E-01
4	2.12E-07	1.38E-02	4.74E-01
5	2.04E-07	1.34E-02	4.71E-01
6	1.96E-07	1.30E-02	4.52E-01
7	1.90E-07	1.26E-02	4.43E-01
8	1.83E-07	1.21E-02	4.19E-01
9	1.76E-07	1.17E-02	4.09E-01
10	3.18E-07	1.89E-02	5.24E-01
11	2.67E-07	1.68E-02	5.23E-01
12	2.47E-07	1.60E-02	5.16E-01
13	2.34E-07	1.53E-02	5.10E-01
14	2.23E-07	1.47E-02	4.86E-01
15	2.14E-07	1.41E-02	4.68E-01
16	2.04E-07	1.35E-02	4.53E-01
17	1.94E-07	1.29E-02	4.36E-01
18	3.90E-07	2.28E-02	5.72E-01
19	3.17E-07	1.99E-02	5.78E-01
20	2.89E-07	1.86E-02	5.70E-01
21	2.71E-07	1.77E-02	5.50E-01
22	2.56E-07	1.68E-02	5.27E-01
23	2.41E-07	1.59E-02	5.08E-01
24	2.29E-07	1.51E-02	4.85E-01
25	2.17E-07	1.43E-02	4.62E-01
26	4.67E-07	2.74E-02	6.34E-01
27	3.75E-07	2.36E-02	6.29E-01
28	3.40E-07	2.19E-02	6.22E-01
29	3.16E-07	2.06E-02	5.98E-01
30	2.95E-07	1.94E-02	5.74E-01
31	2.76E-07	1.82E-02	5.48E-01
32	2.59E-07	1.71E-02	5.18E-01
33	2.44E-07	1.61E-02	4.90E-01
34	5.61E-07	3.33E-02	7.17E-01
35	4.52E-07	2.87E-02	7.05E-01
36	4.04E-07	2.63E-02	6.82E-01
37	3.73E-07	2.45E-02	6.54E-01
38	3.46E-07	2.28E-02	6.30E-01
39	3.20E-07	2.12E-02	5.91E-01
40	2.97E-07	1.96E-02	5.49E-01
41	2.78E-07	1.83E-02	5.18E-01
42	6.79E-07	4.14E-02	8.12E-01
43	5.58E-07	3.59E-02	7.91E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	4.94E-07	3.25E-02	7.63E-01
45	4.49E-07	2.97E-02	7.26E-01
46	4.12E-07	2.73E-02	6.84E-01
47	3.77E-07	2.50E-02	6.34E-01
48	3.47E-07	2.30E-02	5.89E-01
49	3.21E-07	2.12E-02	5.43E-01
50	8.70E-07	5.48E-02	9.27E-01
51	7.17E-07	4.71E-02	9.00E-01
52	6.28E-07	4.18E-02	8.56E-01
53	5.57E-07	3.72E-02	8.03E-01
54	5.00E-07	3.34E-02	7.39E-01
55	4.53E-07	3.01E-02	6.80E-01
56	4.11E-07	2.73E-02	6.23E-01
57	3.75E-07	2.49E-02	5.74E-01
58	1.21E-06	7.93E-02	1.09E+00
59	9.79E-07	6.59E-02	1.05E+00
60	8.28E-07	5.59E-02	9.74E-01
61	7.09E-07	4.78E-02	8.76E-01
62	6.20E-07	4.17E-02	7.96E-01
63	5.50E-07	3.69E-02	7.18E-01
64	4.90E-07	3.28E-02	6.46E-01
65	4.41E-07	2.95E-02	5.88E-01
66	1.97E-06	1.35E-01	1.32E+00
67	1.44E-06	1.00E-01	1.23E+00
68	1.13E-06	7.78E-02	1.09E+00
69	9.26E-07	6.32E-02	9.65E-01
70	7.79E-07	5.28E-02	8.50E-01
71	6.71E-07	4.52E-02	7.50E-01
72	5.85E-07	3.93E-02	6.65E-01
73	5.18E-07	3.47E-02	6.01E-01
74	3.62E-06	2.76E-01	1.67E+00
75	2.14E-06	1.54E-01	1.43E+00
76	1.54E-06	1.08E-01	1.20E+00
77	1.20E-06	8.23E-02	1.01E+00
78	9.70E-07	6.60E-02	8.67E-01
79	8.10E-07	5.48E-02	7.56E-01
80	6.93E-07	4.66E-02	6.74E-01
81	6.02E-07	4.03E-02	6.09E-01
82	5.14E-06	4.03E-01	2.17E+00
83	2.91E-06	2.11E-01	1.58E+00
84	2.00E-06	1.41E-01	1.22E+00
85	1.50E-06	1.03E-01	1.01E+00
86	1.18E-06	8.05E-02	8.61E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
87	9.63E-07	6.51E-02	7.52E-01
88	8.07E-07	5.43E-02	6.67E-01
89	6.91E-07	4.62E-02	6.00E-01
90	6.23E-06	4.59E-01	1.99E+00
91	3.55E-06	2.51E-01	1.39E+00
92	2.42E-06	1.68E-01	1.14E+00
93	1.79E-06	1.22E-01	9.75E-01
94	1.39E-06	9.39E-02	8.45E-01
95	1.11E-06	7.50E-02	7.40E-01
96	9.20E-07	6.17E-02	6.62E-01
97	7.76E-07	5.19E-02	5.97E-01
98	6.61E-06	4.58E-01	1.63E+00
99	3.96E-06	2.70E-01	1.29E+00
100	2.71E-06	1.84E-01	1.07E+00
101	2.00E-06	1.35E-01	9.17E-01
102	1.55E-06	1.04E-01	8.04E-01
103	1.24E-06	8.30E-02	7.12E-01
104	1.02E-06	6.79E-02	6.40E-01
105	8.51E-07	5.68E-02	5.81E-01
106	6.58E-06	4.33E-01	1.51E+00
107	4.11E-06	2.72E-01	1.24E+00
108	2.87E-06	1.90E-01	1.04E+00
109	2.13E-06	1.42E-01	8.88E-01
110	1.66E-06	1.10E-01	7.74E-01
111	1.32E-06	8.81E-02	6.82E-01
112	1.08E-06	7.22E-02	6.11E-01
113	9.08E-07	6.04E-02	5.54E-01
114	6.57E-06	4.20E-01	1.44E+00
115	4.12E-06	2.66E-01	1.19E+00
116	2.90E-06	1.89E-01	9.97E-01
117	2.17E-06	1.42E-01	8.62E-01
118	1.69E-06	1.12E-01	7.62E-01
119	1.36E-06	9.01E-02	6.73E-01
120	1.12E-06	7.43E-02	6.05E-01
121	9.41E-07	6.24E-02	5.52E-01
122	6.25E-06	3.93E-01	1.37E+00
123	3.94E-06	2.51E-01	1.12E+00
124	2.80E-06	1.81E-01	9.54E-01
125	2.12E-06	1.38E-01	8.27E-01
126	1.67E-06	1.09E-01	7.31E-01
127	1.36E-06	8.92E-02	6.52E-01
128	1.13E-06	7.42E-02	5.95E-01
129	9.49E-07	6.27E-02	5.39E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
130	5.40E-06	3.36E-01	1.20E+00
131	3.51E-06	2.22E-01	1.02E+00
132	2.57E-06	1.65E-01	8.82E-01
133	1.98E-06	1.28E-01	7.74E-01
134	1.59E-06	1.04E-01	6.83E-01
135	1.31E-06	8.56E-02	6.16E-01
136	1.10E-06	7.20E-02	5.59E-01
137	9.34E-07	6.15E-02	5.14E-01
138	6.32E-07	3.99E-02	6.53E-01
139	7.10E-07	4.51E-02	7.30E-01
140	8.05E-07	5.19E-02	8.19E-01
141	9.25E-07	6.07E-02	9.34E-01
142	4.97E-07	3.29E-02	6.40E-01
143	5.63E-07	3.73E-02	7.08E-01
144	6.42E-07	4.28E-02	7.92E-01
145	7.40E-07	4.99E-02	8.88E-01
146	8.72E-07	5.97E-02	1.00E+00
147	1.06E-06	7.41E-02	1.15E+00
148	1.35E-06	9.62E-02	1.31E+00
149	1.76E-06	1.27E-01	1.47E+00
150	4.32E-07	2.89E-02	6.17E-01
151	4.85E-07	3.26E-02	6.78E-01
152	5.51E-07	3.72E-02	7.53E-01
153	6.34E-07	4.31E-02	8.44E-01
154	7.39E-07	5.08E-02	9.21E-01
155	8.75E-07	6.08E-02	1.03E+00
156	1.05E-06	7.35E-02	1.13E+00
157	1.27E-06	8.89E-02	1.21E+00
158	3.88E-07	2.61E-02	5.95E-01
159	4.33E-07	2.93E-02	6.47E-01
160	4.88E-07	3.31E-02	7.14E-01
161	5.54E-07	3.78E-02	7.71E-01
162	6.35E-07	4.36E-02	8.45E-01
163	7.33E-07	5.05E-02	9.07E-01
164	8.48E-07	5.84E-02	9.77E-01
165	9.78E-07	6.74E-02	1.01E+00
166	3.22E-07	2.17E-02	5.25E-01
167	3.54E-07	2.39E-02	5.71E-01
168	3.93E-07	2.66E-02	6.14E-01
169	4.38E-07	2.98E-02	6.64E-01
170	4.91E-07	3.35E-02	7.07E-01
171	5.54E-07	3.79E-02	7.60E-01
172	6.23E-07	4.26E-02	8.11E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
173	7.02E-07	4.80E-02	8.54E-01
174	7.85E-07	5.36E-02	8.66E-01
175	2.98E-07	2.01E-02	5.01E-01
176	3.25E-07	2.20E-02	5.38E-01
177	3.58E-07	2.43E-02	5.80E-01
178	3.96E-07	2.69E-02	6.13E-01
179	4.38E-07	2.99E-02	6.51E-01
180	4.86E-07	3.31E-02	6.87E-01
181	5.37E-07	3.66E-02	7.22E-01
182	5.92E-07	4.02E-02	7.48E-01
183	6.48E-07	4.39E-02	7.52E-01
184	2.77E-07	1.87E-02	4.79E-01
185	3.01E-07	2.04E-02	5.07E-01
186	3.29E-07	2.23E-02	5.38E-01
187	3.60E-07	2.44E-02	5.61E-01
188	3.94E-07	2.68E-02	5.98E-01
189	4.30E-07	2.91E-02	6.28E-01
190	4.67E-07	3.16E-02	6.52E-01
191	5.05E-07	3.42E-02	6.61E-01
192	5.45E-07	3.68E-02	6.60E-01
193	2.58E-07	1.74E-02	4.49E-01
194	2.79E-07	1.89E-02	4.76E-01
195	3.02E-07	2.05E-02	4.96E-01
196	3.28E-07	2.23E-02	5.27E-01
197	3.55E-07	2.41E-02	5.47E-01
198	3.83E-07	2.59E-02	5.72E-01
199	4.11E-07	2.78E-02	5.88E-01
200	4.39E-07	2.96E-02	5.94E-01
201	4.66E-07	3.13E-02	5.96E-01
202	2.41E-07	1.63E-02	4.26E-01
203	2.59E-07	1.76E-02	4.44E-01
204	2.79E-07	1.89E-02	4.62E-01
205	3.00E-07	2.03E-02	4.89E-01
206	3.21E-07	2.17E-02	5.06E-01
207	3.43E-07	2.31E-02	5.17E-01
208	3.64E-07	2.45E-02	5.34E-01
209	3.85E-07	2.59E-02	5.31E-01
210	4.04E-07	2.70E-02	5.36E-01
211	4.53E-07	3.01E-02	5.17E-01
212	4.69E-07	3.11E-02	5.04E-01
213	4.83E-07	3.21E-02	4.88E-01
214	4.96E-07	3.29E-02	4.81E-01
215	5.07E-07	3.35E-02	4.63E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Residential) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
216	5.14E-07	3.39E-02	4.49E-01
217	3.51E-06	2.43E-01	1.54E+00
218	5.06E-06	3.94E-01	1.75E+00
219	6.25E-06	5.81E-01	2.01E+00
220	6.99E-06	5.83E-01	2.37E+00
221	7.78E-06	5.87E-01	2.88E+00
222	8.51E-06	6.71E-01	2.75E+00
223	8.84E-06	6.65E-01	1.98E+00
224	8.70E-06	6.10E-01	1.86E+00
225	8.48E-06	5.72E-01	1.73E+00
226	8.27E-06	5.45E-01	1.66E+00
227	8.23E-06	5.34E-01	1.59E+00
228	8.35E-06	5.36E-01	1.58E+00
229	8.42E-06	5.34E-01	1.60E+00
230	8.15E-06	5.11E-01	1.52E+00
231	7.65E-06	4.77E-01	1.41E+00
232	6.92E-06	4.29E-01	1.33E+00
233	3.42E-06	2.16E-01	9.98E-01
234	3.10E-06	1.96E-01	9.25E-01

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	95.36%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	6.61E-11	8.78E-10	1.32E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.19E-09	0.02%	B[a]P
6	3.75E-10	1.62E-09	2.43E-10	0.00E+00	0.00E+00	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-09	4.29E-09	0.05%	D[a,h]anthracen
7	3.34E-13	4.44E-12	6.65E-13	0.00E+00	0.00E+00	0.00E+00	5.63E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-11	1.11E-11	0.00%	B[a]anthracene
8	1.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-10	0.00%	Chlordane
9	5.58E-12	9.15E-14	3.02E-13	0.00E+00	0.00E+00	0.00E+00	2.11E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-11	2.71E-11	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-07	1.58%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-08	0.20%	Benzene
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	1.37E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-13	0.00%	DiClDiPhEthylen
19	8.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-10	0.01%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-09	0.01%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	1.27E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-11	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-09	0.01%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	4.78E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-13	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-08	0.20%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	7.68E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-12	0.00%	3,3'DiClBenzidn
37	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-09	0.08%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-09	0.01%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-08	0.21%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
48	6.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-10	0.01%	p-DiClBenzene
49	1.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-10	0.00%	EDB
50	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-07	1.46%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
55	7.11E-12	4.01E-14	1.32E-13	0.00E+00	0.00E+00	0.00E+00	2.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-11	3.46E-11	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	5.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-11	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	2.66E-13	3.54E-12	5.31E-13	0.00E+00	0.00E+00	0.00E+00	4.49E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-12	8.83E-12	0.00%	In[1,2,3-cd]pyr
63	4.07E-13	5.41E-12	8.11E-13	0.00E+00	0.00E+00	0.00E+00	6.87E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-11	1.35E-11	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	2.94E-12	3.91E-11	5.85E-12	0.00E+00	0.00E+00	0.00E+00	4.96E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-11	9.74E-11	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	3.25E-13	4.33E-12	6.48E-13	0.00E+00	0.00E+00	0.00E+00	5.49E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-11	1.08E-11	0.00%	Chrysene
68	5.30E-12	8.69E-14	2.86E-13	0.00E+00	0.00E+00	0.00E+00	2.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-11	2.57E-11	0.00%	alphaHexClCycHx
69	5.12E-12	8.39E-14	2.76E-13	0.00E+00	0.00E+00	0.00E+00	1.93E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-11	2.48E-11	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	3.00E-10	1.91E-11	6.30E-10	0.00E+00	0.00E+00	0.00E+00	4.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-09	1.40E-09	0.02%	Lead
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
75	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-09	0.02%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	8.15E-09	1.50E-08	7.29E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-08	3.18E-08	0.36%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	3.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-10	0.00%	Beryllium
82	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-09	0.01%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-08	0.33%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	8.81E-06	1.76E-08	8.31E-09	0.00E+00	0.00E+00	0.00E+00	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-08	8.84E-06		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	2.04E-08	5.75E-12	2.72E-12	0.00E+00	0.00E+00	0.00E+00	1.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-11	2.05E-08	0.23%	STKP_L_S
2	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-08	0.57%	TRUCK_S
3	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	1.27%	TRUCK_N
4	6.25E-08	1.18E-11	5.58E-12	0.00E+00	0.00E+00	0.00E+00	3.44E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-11	6.25E-08	0.71%	STKP_L_N
5	5.59E-09	2.37E-09	1.12E-09	0.00E+00	0.00E+00	0.00E+00	6.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-09	9.77E-09	0.11%	HAUL_S
6	3.26E-08	5.59E-09	2.64E-09	0.00E+00	0.00E+00	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-09	4.25E-08	0.48%	HAUL_N
7	1.07E-09	4.56E-10	2.16E-10	0.00E+00	0.00E+00	0.00E+00	1.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-10	1.88E-09	0.02%	2_1
8	8.24E-08	1.28E-12	6.55E-13	0.00E+00	0.00E+00	0.00E+00	4.48E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-12	8.24E-08	0.93%	2_2
9	7.64E-10	3.25E-10	1.54E-10	0.00E+00	0.00E+00	0.00E+00	9.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-10	1.34E-09	0.02%	3
10	3.57E-09	1.27E-10	5.99E-11	0.00E+00	0.00E+00	0.00E+00	3.69E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-10	3.80E-09	0.04%	4A
11	1.60E-07	5.35E-09	2.53E-09	0.00E+00	0.00E+00	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-09	1.69E-07	1.91%	4B
12	2.65E-08	9.07E-10	4.29E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-09	2.81E-08	0.32%	4C
13	5.57E-08	1.87E-09	8.87E-10	0.00E+00	0.00E+00	0.00E+00	5.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-09	5.90E-08	0.67%	4D
14	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-07	3.69%	5
15	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-09	0.02%	6_1
16	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-08	0.25%	6_2
17	1.11E-09	1.84E-11	8.70E-12	0.00E+00	0.00E+00	0.00E+00	5.36E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-11	1.14E-09	0.01%	7
18	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-09	0.04%	8
19	1.04E-06	5.25E-10	2.48E-10	0.00E+00	0.00E+00	0.00E+00	1.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-10	1.04E-06	11.76%	1
20	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.16%	OFF_S
21	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-08	0.12%	STKP_LSD
22	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-08	0.27%	STKP_LND
23	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-08	0.41%	HAUL_SD
24	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-08	0.84%	HAUL_ND
25	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-07	8.07%	2_1D
26	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07	3.13%	3D
27	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07	1.15%	4AD
28	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	39.59%	4BD
29	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-07	7.55%	4CD
30	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	15.38%	4DD
31	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-08	0.23%	7D
32	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-09	0.01%	OFF_N
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	3.10E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-15	0.00%	AW_8
35	5.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-12	0.00%	B_7
36	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-09	0.08%	BENZ_1
SUM	8.81E-06	1.76E-08	8.31E-09	0.00E+00	0.00E+00	0.00E+00	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-08	8.84E-06		

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	0.00E+00	0.00E+00	5.10E-03	0.76%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	0.00E+00	0.00E+00	2.76E-01	41.13%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	4.25E-03	0.00E+00	0.00E+00	4.25E-03	0.00E+00	4.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-03	0.00%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	5.22E-04	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	5.22E-04	0.00%	Benzene
15	0.00E+00	8.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	9.95E-05	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	2.86E-03	0.43%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	3.80E-05	0.01%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	1.86E-04	1.86E-04	0.00E+00	1.86E-04	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00%	Ethyl Benzene
44	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	1.54E-05	0.00%	p-Xylene
48	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06	0.00E+00	3.39E-06	0.00E+00	3.39E-06	0.00E+00	0.00E+00	3.39E-06	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00%	EDC
51	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	9.77E-04	0.15%	m-Xylene
52	0.00E+00	1.24E-04	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	1.24E-04	0.02%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	1.60E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00%	Chlorobenzn
54	8.39E-09	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-09	0.00E+00	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-09	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	8.03E-05	0.01%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	3.36E-03	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-02	0.00E+00	2.94E-02	2.94E-02	4.38%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	3.54E-01	3.54E-01	0.00E+00	3.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-01	3.54E-01	0.00E+00	3.54E-01	52.76%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	1.00E-03	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	1.00E-03	0.15%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	6.79E-04	0.00E+00	0.00E+00	1.01E-03	0.10%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	2.17E-06	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-06	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	2.63E-06	5.56E-05	0.01%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	3.54E-01	3.61E-01	0.00E+00	3.63E-01	1.86E-04	0.00E+00	5.41E-03	1.00E-03	8.98E-03	2.47E-04	6.71E-01	3.54E-01	2.99E-02	6.71E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.05E-04	2.68E-04	0.00E+00	4.04E-04	1.11E-05	0.00E+00	3.22E-04	2.78E-07	2.77E-04	1.48E-05	3.53E-04	9.89E-05	3.94E-05	4.04E-04	0.05%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	2.07E-03	0.31%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	2.34E-03	0.35%	TRUCK_N
4	1.81E-04	5.90E-04	0.00E+00	9.28E-04	2.79E-05	0.00E+00	8.06E-04	4.67E-07	6.92E-04	3.69E-05	7.95E-04	1.66E-04	9.19E-05	9.28E-04	0.12%	STKP_L_N
5	6.32E-02	6.38E-02	0.00E+00	6.39E-02	0.00E+00	0.00E+00	3.35E-06	1.78E-04	7.80E-04	0.00E+00	6.87E-02	6.32E-02	5.24E-03	6.87E-02	10.24%	HAUL_S
6	1.11E-01	1.13E-01	0.00E+00	1.13E-01	1.22E-05	0.00E+00	3.61E-04	3.15E-04	1.68E-03	1.63E-05	1.21E-01	1.11E-01	9.26E-03	1.21E-01	18.03%	HAUL_N
7	9.79E-03	9.89E-03	0.00E+00	9.90E-03	0.00E+00	0.00E+00	5.20E-07	2.76E-05	1.21E-04	0.00E+00	1.07E-02	9.79E-03	8.12E-04	1.07E-02	1.59%	2_1
8	2.77E-05	2.81E-05	0.00E+00	2.80E-05	9.36E-09	0.00E+00	9.38E-09	0.00E+00	3.36E-07	0.00E+00	2.72E-03	2.77E-05	3.21E-06	2.72E-03	0.41%	2_2
9	5.17E-03	5.22E-03	0.00E+00	5.23E-03	0.00E+00	0.00E+00	2.73E-07	1.45E-05	6.38E-05	0.00E+00	5.80E-03	5.17E-03	4.28E-04	5.80E-03	0.86%	3
10	2.00E-03	2.04E-03	0.00E+00	2.06E-03	1.64E-06	0.00E+00	4.76E-05	5.64E-06	6.53E-05	2.17E-06	2.27E-03	2.00E-03	1.70E-04	2.27E-03	0.34%	4A
11	8.94E-02	9.14E-02	0.00E+00	9.25E-02	7.78E-05	0.00E+00	2.26E-03	2.53E-04	3.03E-03	1.03E-04	1.02E-01	8.94E-02	7.63E-03	1.02E-01	15.20%	4B
12	1.58E-02	1.62E-02	0.00E+00	1.63E-02	1.35E-05	0.00E+00	3.91E-04	4.46E-05	5.29E-04	1.78E-05	1.80E-02	1.58E-02	1.35E-03	1.80E-02	2.68%	4C
13	4.75E-02	4.86E-02	0.00E+00	4.92E-02	4.12E-05	0.00E+00	1.20E-03	1.34E-04	1.61E-03	5.47E-05	5.41E-02	4.75E-02	4.05E-03	5.41E-02	8.06%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	1.05E-02	1.56%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	6.55E-05	0.01%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	1.09E-03	0.16%	6_2
17	3.32E-04	3.44E-04	0.00E+00	3.52E-04	6.10E-07	0.00E+00	1.77E-05	9.37E-07	1.92E-05	8.08E-07	3.89E-04	3.32E-04	2.93E-05	3.89E-04	0.06%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.00E-04	0.01%	8
19	9.64E-03	9.74E-03	0.00E+00	9.75E-03	0.00E+00	0.00E+00	5.12E-07	2.72E-05	1.19E-04	0.00E+00	4.41E-02	9.64E-03	8.01E-04	4.41E-02	6.57%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	6.89E-04	0.10%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	3.32E-04	0.05%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	6.05E-04	0.09%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	1.65E-03	0.25%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	2.32E-03	0.35%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-02	0.00E+00	0.00E+00	2.59E-02	3.86%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03	0.00E+00	0.00E+00	7.79E-03	1.16%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	2.85E-03	0.42%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	1.01E-01	15.05%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-02	0.00E+00	0.00E+00	2.06E-02	3.07%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-02	0.00E+00	0.00E+00	5.95E-02	8.87%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	6.50E-04	0.10%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	4.11E-05	0.01%	OFF_N
33	0.00E+00	4.49E-10	0.00E+00	2.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-10	0.00E+00	0.00E+00	4.49E-10	0.00%	B_4
34	0.00E+00	1.58E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-11	0.00E+00	1.58E-11	0.00E+00	1.58E-11	0.00E+00	0.00E+00	1.58E-11	0.00%	AW_8
35	0.00E+00	6.04E-08	0.00E+00	9.73E-08	3.70E-08	0.00E+00	3.70E-08	0.00E+00	3.70E-08	0.00E+00	3.98E-08	0.00E+00	6.04E-08	9.73E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	3.54E-01	3.61E-01	0.00E+00	3.63E-01	1.86E-04	0.00E+00	5.41E-03	1.00E-03	8.98E-03	2.47E-04	6.71E-01	3.54E-01	2.99E-02	6.71E-01		

ASCON Health Risk Assessment

MEI (Residential) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	2.66E+00	0.00E+00	2.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E+00	0.00E+00	0.00E+00	0.00E+00	2.66E+00	92.36%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	7.53E-03	0.00E+00	0.00E+00	0.00E+00	7.53E-03	0.00E+00	7.53E-03	0.00E+00	0.00E+00	7.53E-03	7.53E-03	0.26%	Benzene
15	0.00E+00	3.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	8.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	9.76E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	1.42E-03	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-03	0.00E+00	0.00E+00	9.71E-03	0.00%	m-Xylene
52	0.00E+00	3.14E-04	0.00E+00	3.14E-04	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	3.14E-04	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	8.87E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	7.00E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	7.99E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	7.74E-03	0.00E+00	7.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-03	0.27%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	2.03E-01	2.03E-01	0.00E+00	2.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-01	7.05%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	0.00E+00	0.00E+00	1.30E-02	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	6.54E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.03E-01	2.88E+00	0.00E+00	2.88E+00	0.00E+00	1.94E-02	0.00E+00	6.38E-01	0.00E+00	2.67E+00	3.24E-02	0.00E+00	7.53E-03	2.88E+00		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	2.04E-04	1.08E-01	0.00E+00	1.08E-01	0.00E+00	5.28E-04	0.00E+00	9.39E-04	0.00E+00	1.08E-01	5.41E-04	0.00E+00	3.05E-04	1.09E-01	3.75%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	3.51E-04	3.90E-01	0.00E+00	3.90E-01	0.00E+00	1.90E-03	0.00E+00	2.19E-03	0.00E+00	3.90E-01	1.92E-03	0.00E+00	1.10E-03	3.90E-01	13.54%	STKP_L_N
5	4.31E-02	4.47E-02	0.00E+00	4.47E-02	0.00E+00	1.39E-03	0.00E+00	1.33E-01	0.00E+00	0.00E+00	4.13E-03	0.00E+00	0.00E+00	1.33E-01	1.55%	HAUL_S
6	8.06E-02	1.59E+00	0.00E+00	1.59E+00	0.00E+00	9.85E-03	0.00E+00	2.54E-01	0.00E+00	1.51E+00	1.50E-02	0.00E+00	4.25E-03	1.59E+00	55.21%	HAUL_N
7	1.21E-02	1.26E-02	0.00E+00	1.26E-02	0.00E+00	3.91E-04	0.00E+00	3.77E-02	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	3.77E-02	0.44%	2_1
8	1.16E-05	1.20E-05	0.00E+00	1.20E-05	0.00E+00	6.34E-06	0.00E+00	5.02E-05	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	5.02E-05	0.00%	2_2
9	4.55E-03	4.73E-03	0.00E+00	4.73E-03	0.00E+00	1.46E-04	0.00E+00	1.41E-02	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	1.41E-02	0.16%	3
10	5.98E-03	6.41E-02	0.00E+00	6.41E-02	0.00E+00	4.72E-04	0.00E+00	1.87E-02	0.00E+00	5.79E-02	8.53E-04	0.00E+00	1.64E-04	6.41E-02	2.23%	4A
11	2.54E-02	2.72E-01	0.00E+00	2.72E-01	0.00E+00	2.00E-03	0.00E+00	7.93E-02	0.00E+00	2.45E-01	3.63E-03	0.00E+00	6.94E-04	2.72E-01	9.44%	4B
12	1.14E-02	1.22E-01	0.00E+00	1.22E-01	0.00E+00	8.98E-04	0.00E+00	3.56E-02	0.00E+00	1.10E-01	1.62E-03	0.00E+00	3.11E-04	1.22E-01	4.24%	4C
13	1.11E-02	1.19E-01	0.00E+00	1.20E-01	0.00E+00	8.79E-04	0.00E+00	3.49E-02	0.00E+00	1.08E-01	1.59E-03	0.00E+00	3.05E-04	1.20E-01	4.17%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2
17	8.22E-03	1.50E-01	0.00E+00	1.50E-01	0.00E+00	9.49E-04	0.00E+00	2.59E-02	0.00E+00	1.42E-01	1.47E-03	0.00E+00	3.99E-04	1.50E-01	5.21%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8
19	3.03E-04	3.15E-04	0.00E+00	3.15E-04	0.00E+00	9.81E-06	0.00E+00	9.45E-04	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	9.45E-04	0.01%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
33	0.00E+00	2.17E-10	0.00E+00	2.17E-10	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	2.17E-10	1.04E-09	0.00E+00	0.00E+00	1.04E-09	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	8.31E-08	0.00E+00	0.00E+00	8.31E-08	8.31E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	2.03E-01	2.88E+00	0.00E+00	2.88E+00	0.00E+00	1.94E-02	0.00E+00	6.38E-01	0.00E+00	2.67E+00	3.24E-02	0.00E+00	7.53E-03	2.88E+00		

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (School Student) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	2.66E-06	1.64E-01	8.52E-01
2	2.21E-06	1.38E-01	7.95E-01
3	1.92E-06	1.20E-01	7.46E-01
4	1.82E-06	1.14E-01	7.12E-01
5	1.70E-06	1.07E-01	6.95E-01
6	1.52E-06	9.62E-02	6.59E-01
7	1.49E-06	9.36E-02	6.54E-01
8	1.44E-06	9.10E-02	6.59E-01
9	1.33E-06	8.39E-02	6.29E-01
10	1.29E-06	8.20E-02	6.06E-01
11	1.29E-06	8.17E-02	5.94E-01
12	1.21E-06	7.64E-02	5.89E-01
13	1.12E-06	7.14E-02	5.60E-01
14	1.12E-06	7.12E-02	6.03E-01
15	1.11E-06	7.09E-02	5.59E-01
16	1.09E-06	6.90E-02	5.56E-01
17	1.06E-06	6.74E-02	5.66E-01
18	9.92E-07	6.32E-02	5.21E-01
19	9.90E-07	6.28E-02	5.41E-01
20	9.73E-07	6.19E-02	5.11E-01
21	9.65E-07	6.16E-02	5.13E-01
22	9.12E-07	5.80E-02	5.11E-01
23	8.97E-07	5.72E-02	5.52E-01
24	8.76E-07	5.59E-02	4.86E-01
25	8.71E-07	5.55E-02	4.86E-01
26	8.66E-07	5.51E-02	5.28E-01
27	8.44E-07	5.40E-02	4.77E-01
28	8.35E-07	5.32E-02	4.82E-01
29	8.22E-07	5.24E-02	4.95E-01
30	7.84E-07	5.01E-02	4.56E-01
31	7.79E-07	4.98E-02	4.53E-01
32	7.72E-07	4.92E-02	4.71E-01
33	7.62E-07	4.86E-02	4.50E-01
34	7.33E-07	4.69E-02	5.05E-01
35	7.17E-07	4.58E-02	4.51E-01
36	7.17E-07	4.58E-02	4.87E-01
37	7.08E-07	4.53E-02	4.30E-01
38	6.96E-07	4.45E-02	4.27E-01
39	6.92E-07	4.42E-02	4.64E-01
40	6.65E-07	4.25E-02	4.23E-01
41	6.59E-07	4.21E-02	4.36E-01
42	6.37E-07	4.07E-02	4.04E-01
43	6.21E-07	3.97E-02	4.18E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (School Student) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	6.16E-07	3.94E-02	3.99E-01
45	6.10E-07	3.91E-02	4.68E-01
46	6.03E-07	3.86E-02	4.50E-01
47	5.89E-07	3.77E-02	4.34E-01
48	5.83E-07	3.73E-02	4.02E-01
49	5.70E-07	3.65E-02	3.81E-01
50	5.68E-07	3.63E-02	4.17E-01
51	5.45E-07	3.49E-02	3.75E-01
52	5.42E-07	3.47E-02	3.88E-01
53	5.16E-07	3.32E-02	4.35E-01
54	5.14E-07	3.30E-02	4.21E-01
55	5.13E-07	3.28E-02	3.73E-01
56	5.10E-07	3.27E-02	3.58E-01
57	5.07E-07	3.25E-02	4.05E-01
58	4.94E-07	3.16E-02	3.88E-01
59	4.84E-07	3.10E-02	3.60E-01
60	4.76E-07	3.05E-02	3.76E-01
61	4.57E-07	2.93E-02	3.39E-01
62	4.54E-07	2.91E-02	3.49E-01
63	4.32E-07	2.77E-02	3.38E-01
64	4.11E-07	2.64E-02	3.28E-01

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-06	95.11%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	1.43E-11	1.90E-10	2.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-10	2.32E-10	0.01%	B[a]P
6	1.17E-10	3.50E-10	5.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-10	5.20E-10	0.02%	D[a,h]anthracen
7	7.22E-14	9.60E-13	1.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-12	1.18E-12	0.00%	B[a]anthracene
8	2.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-11	0.00%	Chlordane
9	1.21E-12	3.34E-13	6.51E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-13	1.61E-12	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-08	1.42%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-09	0.18%	Benzene
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	2.95E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-14	0.00%	DiClDiPhEthylen
19	2.17E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-10	0.01%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	3.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-10	0.01%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	2.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-12	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	2.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-10	0.01%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	1.03E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-13	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-09	0.18%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	1.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-12	0.00%	3,3'DiClBenzidn
37	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-08	0.89%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	3.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-10	0.01%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	5.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-09	0.19%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
48	1.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-10	0.01%	p-DiClBenzene
49	2.69E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-11	0.00%	EDB
50	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-08	1.31%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
55	1.55E-12	1.48E-13	2.88E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-13	1.73E-12	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	1.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-11	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	5.76E-14	7.66E-13	1.15E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-13	9.38E-13	0.00%	In[1,2,3-cd]pyr
63	8.80E-14	1.17E-12	1.75E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-12	1.43E-12	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	6.35E-13	8.45E-12	1.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-12	1.03E-11	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	7.03E-14	9.35E-13	1.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-12	1.15E-12	0.00%	Chrysene
68	1.15E-12	3.18E-13	6.19E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-13	1.53E-12	0.00%	alphaHexClCycHx
69	1.11E-12	3.07E-13	5.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-13	1.47E-12	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	9.40E-11	4.14E-12	1.36E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-10	2.34E-10	0.01%	Lead
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
75	4.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-10	0.02%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	1.76E-09	3.24E-09	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-09	6.58E-09	0.25%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	6.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-11	0.00%	Beryllium
82	2.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-10	0.01%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-09	0.24%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.65E-06	3.80E-09	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	2.66E-06		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	1.43E-08	4.02E-12	1.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-12	1.43E-08	0.54%	STKP_L_S
2	5.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-09	0.20%	TRUCK_S
3	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-09	0.24%	TRUCK_N
4	1.92E-08	3.63E-12	1.72E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-12	1.92E-08	0.72%	STKP_L_N
5	1.29E-09	5.43E-10	2.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-10	2.09E-09	0.08%	HAUL_S
6	3.07E-09	5.25E-10	2.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-10	3.85E-09	0.14%	HAUL_N
7	1.89E-11	7.96E-12	3.76E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-11	3.06E-11	0.00%	2_1
8	3.17E-08	4.96E-13	2.52E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-13	3.17E-08	1.19%	2_2
9	1.33E-09	5.63E-10	2.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-10	2.16E-09	0.08%	3
10	2.00E-08	7.06E-10	3.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-09	2.10E-08	0.79%	4A
11	1.47E-08	4.93E-10	2.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-10	1.55E-08	0.58%	4B
12	9.93E-09	3.40E-10	1.61E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-10	1.04E-08	0.39%	4C
13	1.26E-08	4.25E-10	2.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-10	1.33E-08	0.50%	4D
14	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	4.25%	5
15	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-09	0.23%	6_1
16	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-09	0.06%	6_2
17	6.59E-10	1.09E-11	5.16E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-11	6.75E-10	0.03%	7
18	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-09	0.04%	8
19	3.43E-07	1.73E-10	8.20E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-10	3.43E-07	12.89%	1
20	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-09	0.08%	OFF_S
21	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-09	0.28%	STKP_LSD
22	7.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-09	0.28%	STKP_LND
23	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-09	0.32%	HAUL_SD
24	8.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-09	0.31%	HAUL_ND
25	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-08	0.56%	2_1D
26	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-07	17.63%	3D
27	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-07	20.41%	4AD
28	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-07	14.17%	4BD
29	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-07	9.55%	4CD
30	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-07	11.88%	4DD
31	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-08	0.45%	7D
32	2.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-09	0.11%	OFF_N
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	9.36E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-15	0.00%	AW_8
35	1.72E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-13	0.00%	B_7
36	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-08	0.89%	BENZ_1
SUM	2.65E-06	3.80E-09	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	2.66E-06		

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	1.55E-03	0.95%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-02	0.00E+00	0.00E+00	8.60E-02	52.44%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	1.24E-03	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	1.52E-04	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	1.52E-04	0.00%	Benzene
15	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	2.89E-05	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	8.34E-04	0.51%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	1.10E-05	0.01%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	5.41E-05	5.41E-05	0.00E+00	5.41E-05	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00%	Ethyl Benzene
44	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	4.48E-06	0.00%	p-Xylene
48	0.00E+00	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-07	0.00E+00	9.86E-07	0.00E+00	9.86E-07	0.00E+00	0.00E+00	9.86E-07	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00%	EDC
51	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.17%	m-Xylene
52	0.00E+00	3.60E-05	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	3.60E-05	0.02%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	4.66E-05	4.66E-05	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00%	Chlorobenzn
54	1.73E-09	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-09	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-09	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	2.34E-05	0.01%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	4.42E-04	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03	0.00E+00	6.07E-03	6.07E-03	3.70%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	6.92E-02	6.92E-02	0.00E+00	6.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-02	6.92E-02	0.00E+00	6.92E-02	42.20%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-06	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.13%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	1.57E-04	0.09%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	4.49E-07	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-07	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	4.90E-07	1.15E-05	0.01%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	6.92E-02	7.05E-02	0.00E+00	7.12E-02	5.41E-05	0.00E+00	1.57E-03	2.07E-04	1.94E-03	7.17E-05	1.64E-01	6.92E-02	6.23E-03	1.64E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	7.79E-05	2.06E-04	0.00E+00	3.12E-04	8.71E-06	0.00E+00	2.53E-04	2.18E-07	2.17E-04	1.16E-05	2.72E-04	7.32E-05	3.09E-05	3.12E-04	0.17%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	1.84E-04	0.11%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.13%	TRUCK_N
4	7.24E-05	2.44E-04	0.00E+00	3.87E-04	1.18E-05	0.00E+00	3.40E-04	1.97E-07	2.91E-04	1.56E-05	3.31E-04	6.61E-05	3.87E-05	3.87E-04	0.20%	STKP_L_N
5	9.91E-03	9.97E-03	0.00E+00	9.98E-03	0.00E+00	0.00E+00	5.06E-07	2.96E-05	8.58E-05	0.00E+00	1.08E-02	9.91E-03	8.71E-04	1.08E-02	6.59%	HAUL_S
6	9.57E-03	9.64E-03	0.00E+00	9.67E-03	1.11E-06	0.00E+00	3.28E-05	2.87E-05	1.11E-04	1.48E-06	1.05E-02	9.57E-03	8.42E-04	1.05E-02	6.40%	HAUL_N
7	1.45E-04	1.46E-04	0.00E+00	1.46E-04	0.00E+00	0.00E+00	7.40E-09	4.33E-07	1.25E-06	0.00E+00	1.59E-04	1.45E-04	1.27E-05	1.59E-04	0.10%	2_1
8	1.05E-05	1.06E-05	0.00E+00	1.06E-05	3.77E-09	0.00E+00	3.77E-09	0.00E+00	9.19E-08	0.00E+00	1.09E-03	1.05E-05	1.29E-06	1.09E-03	0.66%	2_2
9	1.03E-02	1.03E-02	0.00E+00	1.03E-02	0.00E+00	0.00E+00	5.22E-07	3.05E-05	8.89E-05	0.00E+00	1.16E-02	1.03E-02	9.00E-04	1.16E-02	7.07%	3
10	1.29E-02	1.31E-02	0.00E+00	1.33E-02	1.12E-05	0.00E+00	3.24E-04	3.84E-05	3.88E-04	1.48E-05	1.47E-02	1.29E-02	1.16E-03	1.47E-02	8.96%	4A
11	8.98E-03	9.16E-03	0.00E+00	9.27E-03	8.28E-06	0.00E+00	2.41E-04	2.69E-05	2.83E-04	1.10E-05	1.03E-02	8.98E-03	8.11E-04	1.03E-02	6.28%	4B
12	6.20E-03	6.32E-03	0.00E+00	6.40E-03	5.60E-06	0.00E+00	1.62E-04	1.85E-05	1.92E-04	7.40E-06	7.10E-03	6.20E-03	5.61E-04	7.10E-03	4.33%	4C
13	7.75E-03	7.91E-03	0.00E+00	8.00E-03	7.10E-06	0.00E+00	2.06E-04	2.31E-05	2.43E-04	9.43E-06	8.88E-03	7.75E-03	6.99E-04	8.88E-03	5.41%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	3.84E-03	2.34%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04	0.13%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	5.72E-05	0.03%	6_2
17	1.99E-04	2.06E-04	0.00E+00	2.11E-04	3.87E-07	0.00E+00	1.12E-05	5.95E-07	1.13E-05	5.13E-07	2.35E-04	1.99E-04	1.86E-05	2.35E-04	0.14%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	3.78E-05	0.02%	8
19	3.16E-03	3.18E-03	0.00E+00	3.18E-03	0.00E+00	0.00E+00	1.61E-07	9.43E-06	2.73E-05	0.00E+00	1.51E-02	3.16E-03	2.78E-04	1.51E-02	9.21%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	7.13E-05	0.04%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.16%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.15%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.17%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.17%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	5.04E-04	0.31%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.59E-02	9.70%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	1.84E-02	11.22%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	1.28E-02	7.80%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03	0.00E+00	0.00E+00	8.64E-03	5.27%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02	6.52%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04	0.25%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	9.55E-05	0.06%	OFF_N
33	0.00E+00	2.37E-10	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	2.37E-10	0.00%	B_4
34	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	AW_8
35	0.00E+00	1.85E-09	0.00E+00	2.99E-09	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.22E-09	0.00E+00	1.85E-09	2.99E-09	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	6.92E-02	7.05E-02	0.00E+00	7.12E-02	5.41E-05	0.00E+00	1.57E-03	2.07E-04	1.94E-03	7.17E-05	1.64E-01	6.92E-02	6.23E-03	1.64E-01		

ASCON Health Risk Assessment

MEI (School Student) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	7.85E-01	0.00E+00	7.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-01	0.00E+00	0.00E+00	0.00E+00	7.85E-01	92.14%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	2.22E-03	0.00E+00	0.00E+00	2.22E-03	2.22E-03	0.26%	Benzene
15	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	2.88E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	1.12E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	4.18E-04	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	4.53E-05	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	2.87E-03	0.00%	m-Xylene
52	0.00E+00	9.28E-05	0.00E+00	9.28E-05	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	9.28E-05	9.28E-05	0.00E+00	0.00E+00	9.28E-05	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	2.73E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	2.07E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	2.38E-03	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.28%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	6.26E-02	6.26E-02	0.00E+00	6.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-02	7.35%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	3.99E-03	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	2.01E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	6.26E-02	8.52E-01	0.00E+00	8.52E-01	0.00E+00	5.82E-03	0.00E+00	1.96E-01	0.00E+00	7.87E-01	9.80E-03	0.00E+00	2.22E-03	8.52E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.36E-04	7.20E-02	0.00E+00	7.21E-02	0.00E+00	3.51E-04	0.00E+00	6.24E-04	0.00E+00	7.19E-02	3.59E-04	0.00E+00	2.03E-04	7.21E-02	8.46%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	1.55E-04	1.73E-01	0.00E+00	1.73E-01	0.00E+00	8.41E-04	0.00E+00	9.71E-04	0.00E+00	1.73E-01	8.51E-04	0.00E+00	4.87E-04	1.73E-01	20.31%	STKP_L_N
5	7.01E-03	7.28E-03	0.00E+00	7.28E-03	0.00E+00	2.26E-04	0.00E+00	2.17E-02	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	2.17E-02	0.85%	HAUL_S
6	7.90E-03	1.56E-01	0.00E+00	1.56E-01	0.00E+00	9.65E-04	0.00E+00	2.49E-02	0.00E+00	1.48E-01	1.47E-03	0.00E+00	4.17E-04	1.56E-01	18.31%	HAUL_N
7	1.81E-03	1.88E-03	0.00E+00	1.88E-03	0.00E+00	5.83E-05	0.00E+00	5.62E-03	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	5.62E-03	0.22%	2_1
8	3.93E-07	4.06E-07	0.00E+00	4.06E-07	0.00E+00	2.15E-07	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.23E-07	0.00E+00	0.00E+00	1.70E-06	0.00%	2_2
9	8.93E-03	9.27E-03	0.00E+00	9.27E-03	0.00E+00	2.87E-04	0.00E+00	2.77E-02	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	2.77E-02	1.09%	3
10	1.03E-02	1.11E-01	0.00E+00	1.11E-01	0.00E+00	8.17E-04	0.00E+00	3.23E-02	0.00E+00	1.00E-01	1.47E-03	0.00E+00	2.83E-04	1.11E-01	13.03%	4A
11	1.09E-02	1.16E-01	0.00E+00	1.16E-01	0.00E+00	8.57E-04	0.00E+00	3.39E-02	0.00E+00	1.05E-01	1.55E-03	0.00E+00	2.97E-04	1.16E-01	13.62%	4B
12	7.01E-03	7.51E-02	0.00E+00	7.52E-02	0.00E+00	5.54E-04	0.00E+00	2.19E-02	0.00E+00	6.79E-02	1.00E-03	0.00E+00	1.92E-04	7.52E-02	8.83%	4C
13	2.52E-03	2.71E-02	0.00E+00	2.71E-02	0.00E+00	1.99E-04	0.00E+00	7.90E-03	0.00E+00	2.45E-02	3.60E-04	0.00E+00	6.92E-05	2.71E-02	3.18%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2
17	5.66E-03	1.03E-01	0.00E+00	1.04E-01	0.00E+00	6.54E-04	0.00E+00	1.78E-02	0.00E+00	9.77E-02	1.01E-03	0.00E+00	2.75E-04	1.04E-01	12.21%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8
19	2.27E-04	2.36E-04	0.00E+00	2.36E-04	0.00E+00	7.35E-06	0.00E+00	7.08E-04	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	7.08E-04	0.03%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
33	0.00E+00	1.32E-10	0.00E+00	1.32E-10	0.00E+00	6.35E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-10	6.35E-10	0.00E+00	0.00E+00	6.35E-10	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	1.42E-08	1.42E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	6.26E-02	8.52E-01	0.00E+00	8.52E-01	0.00E+00	5.82E-03	0.00E+00	1.96E-01	0.00E+00	7.87E-01	9.80E-03	0.00E+00	2.22E-03	8.52E-01		

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	6.25E-08	1.48E-02	3.34E-01
2	6.36E-08	1.51E-02	3.53E-01
3	6.45E-08	1.53E-02	3.71E-01
4	6.47E-08	1.53E-02	3.89E-01
5	6.41E-08	1.52E-02	4.07E-01
6	6.38E-08	1.51E-02	4.25E-01
7	6.31E-08	1.49E-02	4.45E-01
8	6.17E-08	1.45E-02	4.71E-01
9	6.19E-08	1.46E-02	4.85E-01
10	6.40E-08	1.51E-02	4.92E-01
11	6.49E-08	1.52E-02	4.99E-01
12	6.55E-08	1.52E-02	4.92E-01
13	6.63E-08	1.52E-02	4.93E-01
14	6.84E-08	1.54E-02	5.05E-01
15	7.64E-08	1.64E-02	4.98E-01
16	1.30E-07	2.31E-02	5.07E-01
17	6.97E-08	1.66E-02	3.56E-01
18	7.17E-08	1.71E-02	3.71E-01
19	7.26E-08	1.73E-02	3.93E-01
20	7.35E-08	1.75E-02	4.14E-01
21	7.43E-08	1.77E-02	4.35E-01
22	7.41E-08	1.76E-02	4.59E-01
23	7.28E-08	1.72E-02	4.83E-01
24	7.06E-08	1.67E-02	5.04E-01
25	7.27E-08	1.72E-02	5.28E-01
26	7.48E-08	1.77E-02	5.38E-01
27	7.57E-08	1.78E-02	5.50E-01
28	7.59E-08	1.77E-02	5.44E-01
29	7.63E-08	1.76E-02	5.37E-01
30	7.76E-08	1.77E-02	5.59E-01
31	8.18E-08	1.82E-02	5.47E-01
32	9.60E-08	1.98E-02	5.47E-01
33	7.72E-08	1.84E-02	3.75E-01
34	7.99E-08	1.91E-02	4.03E-01
35	8.18E-08	1.95E-02	4.20E-01
36	8.32E-08	1.99E-02	4.43E-01
37	8.65E-08	2.06E-02	4.67E-01
38	8.67E-08	2.07E-02	4.96E-01
39	8.49E-08	2.03E-02	5.32E-01
40	8.58E-08	2.04E-02	5.49E-01
41	8.77E-08	2.08E-02	5.74E-01
42	8.88E-08	2.11E-02	5.93E-01
43	8.98E-08	2.13E-02	6.05E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	8.97E-08	2.11E-02	6.11E-01
45	8.95E-08	2.08E-02	5.92E-01
46	9.00E-08	2.07E-02	6.11E-01
47	9.27E-08	2.10E-02	6.09E-01
48	9.89E-08	2.17E-02	6.04E-01
49	1.44E-07	2.70E-02	5.93E-01
50	8.49E-08	2.03E-02	3.98E-01
51	8.68E-08	2.08E-02	4.20E-01
52	9.24E-08	2.21E-02	4.51E-01
53	9.70E-08	2.32E-02	4.70E-01
54	1.01E-07	2.42E-02	5.02E-01
55	1.03E-07	2.46E-02	5.36E-01
56	1.03E-07	2.46E-02	5.79E-01
57	1.05E-07	2.51E-02	6.08E-01
58	1.06E-07	2.55E-02	6.36E-01
59	1.08E-07	2.59E-02	6.63E-01
60	1.09E-07	2.61E-02	6.72E-01
61	1.09E-07	2.57E-02	6.84E-01
62	1.08E-07	2.54E-02	6.82E-01
63	1.08E-07	2.52E-02	6.76E-01
64	1.10E-07	2.52E-02	6.77E-01
65	1.13E-07	2.55E-02	6.58E-01
66	1.34E-07	2.77E-02	6.61E-01
67	9.19E-08	2.20E-02	4.26E-01
68	9.74E-08	2.34E-02	4.47E-01
69	1.06E-07	2.54E-02	4.80E-01
70	1.13E-07	2.71E-02	5.01E-01
71	1.19E-07	2.85E-02	5.41E-01
72	1.23E-07	2.96E-02	5.82E-01
73	1.26E-07	3.04E-02	6.29E-01
74	1.29E-07	3.11E-02	6.74E-01
75	1.32E-07	3.19E-02	7.15E-01
76	1.36E-07	3.28E-02	7.51E-01
77	1.37E-07	3.32E-02	7.52E-01
78	1.36E-07	3.26E-02	7.61E-01
79	1.35E-07	3.22E-02	7.76E-01
80	1.35E-07	3.19E-02	7.64E-01
81	1.35E-07	3.16E-02	7.58E-01
82	1.37E-07	3.15E-02	7.23E-01
83	1.56E-07	3.32E-02	7.28E-01
84	1.03E-07	2.46E-02	4.40E-01
85	1.11E-07	2.66E-02	4.76E-01
86	1.20E-07	2.88E-02	5.08E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
87	1.30E-07	3.11E-02	5.47E-01
88	1.39E-07	3.35E-02	5.84E-01
89	1.48E-07	3.57E-02	6.34E-01
90	1.55E-07	3.75E-02	6.90E-01
91	1.62E-07	3.92E-02	7.56E-01
92	1.69E-07	4.10E-02	8.18E-01
93	1.76E-07	4.30E-02	8.67E-01
94	1.81E-07	4.41E-02	8.70E-01
95	1.81E-07	4.38E-02	8.66E-01
96	1.80E-07	4.34E-02	8.91E-01
97	1.78E-07	4.27E-02	8.74E-01
98	1.76E-07	4.17E-02	8.64E-01
99	1.75E-07	4.09E-02	8.32E-01
100	1.88E-07	4.14E-02	8.12E-01
101	1.13E-07	2.70E-02	4.65E-01
102	1.23E-07	2.95E-02	5.01E-01
103	1.35E-07	3.24E-02	5.40E-01
104	1.48E-07	3.55E-02	5.89E-01
105	1.62E-07	3.89E-02	6.45E-01
106	1.77E-07	4.29E-02	6.97E-01
107	1.93E-07	4.69E-02	7.66E-01
108	2.08E-07	5.07E-02	8.53E-01
109	2.23E-07	5.48E-02	9.46E-01
110	2.39E-07	5.91E-02	1.03E+00
111	2.51E-07	6.21E-02	1.06E+00
112	2.56E-07	6.33E-02	1.05E+00
113	2.57E-07	6.34E-02	1.02E+00
114	2.53E-07	6.19E-02	9.97E-01
115	2.47E-07	5.97E-02	9.82E-01
116	2.40E-07	5.72E-02	9.69E-01
117	2.46E-07	5.58E-02	9.43E-01
118	1.23E-07	2.96E-02	4.87E-01
119	1.37E-07	3.28E-02	5.28E-01
120	1.52E-07	3.65E-02	5.76E-01
121	1.68E-07	4.05E-02	6.29E-01
122	1.89E-07	4.56E-02	6.97E-01
123	2.14E-07	5.18E-02	7.89E-01
124	2.42E-07	5.89E-02	8.70E-01
125	2.74E-07	6.73E-02	9.78E-01
126	3.10E-07	7.71E-02	1.12E+00
127	3.49E-07	8.82E-02	1.24E+00
128	3.82E-07	9.77E-02	1.29E+00
129	4.04E-07	1.03E-01	1.26E+00

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
130	4.12E-07	1.06E-01	1.21E+00
131	4.08E-07	1.04E-01	1.15E+00
132	3.99E-07	9.91E-02	1.14E+00
133	3.77E-07	9.22E-02	1.13E+00
134	3.60E-07	8.45E-02	1.10E+00
135	1.36E-07	3.28E-02	5.09E-01
136	1.52E-07	3.68E-02	5.55E-01
137	1.71E-07	4.15E-02	6.10E-01
138	1.93E-07	4.69E-02	6.75E-01
139	2.23E-07	5.41E-02	7.55E-01
140	2.59E-07	6.31E-02	8.52E-01
141	3.06E-07	7.48E-02	9.96E-01
142	3.69E-07	9.13E-02	1.16E+00
143	4.68E-07	1.18E-01	1.38E+00
144	6.04E-07	1.58E-01	1.59E+00
145	7.38E-07	2.03E-01	1.63E+00
146	8.26E-07	2.33E-01	1.57E+00
147	8.48E-07	2.39E-01	1.46E+00
148	8.52E-07	2.34E-01	1.37E+00
149	8.37E-07	2.21E-01	1.36E+00
150	7.84E-07	1.99E-01	1.33E+00
151	6.84E-07	1.67E-01	1.35E+00
152	1.49E-07	3.62E-02	5.32E-01
153	1.68E-07	4.09E-02	5.84E-01
154	1.92E-07	4.68E-02	6.40E-01
155	2.22E-07	5.41E-02	7.15E-01
156	2.60E-07	6.35E-02	8.09E-01
157	3.10E-07	7.61E-02	9.27E-01
158	3.82E-07	9.42E-02	1.09E+00
159	4.95E-07	1.23E-01	1.34E+00
160	7.25E-07	1.85E-01	1.78E+00
161	1.60E-07	3.88E-02	5.52E-01
162	1.82E-07	4.41E-02	6.08E-01
163	2.09E-07	5.09E-02	6.73E-01
164	2.44E-07	5.94E-02	7.53E-01
165	2.90E-07	7.07E-02	8.60E-01
166	3.54E-07	8.62E-02	9.92E-01
167	4.47E-07	1.09E-01	1.18E+00
168	5.99E-07	1.47E-01	1.47E+00
169	9.42E-07	2.34E-01	2.11E+00
170	1.69E-07	4.05E-02	5.67E-01
171	1.92E-07	4.61E-02	6.26E-01
172	2.21E-07	5.32E-02	6.97E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
173	2.59E-07	6.25E-02	7.85E-01
174	3.11E-07	7.50E-02	8.96E-01
175	3.83E-07	9.26E-02	1.05E+00
176	4.93E-07	1.19E-01	1.25E+00
177	6.82E-07	1.65E-01	1.58E+00
178	1.10E-06	2.68E-01	2.30E+00
179	1.80E-07	4.20E-02	5.81E-01
180	2.02E-07	4.76E-02	6.43E-01
181	2.28E-07	5.44E-02	7.16E-01
182	2.68E-07	6.41E-02	8.10E-01
183	3.23E-07	7.76E-02	9.31E-01
184	4.01E-07	9.68E-02	1.09E+00
185	5.25E-07	1.27E-01	1.32E+00
186	7.45E-07	1.80E-01	1.71E+00
187	1.28E-06	3.09E-01	2.71E+00
188	1.85E-07	4.26E-02	5.90E-01
189	2.07E-07	4.82E-02	6.55E-01
190	2.29E-07	5.46E-02	7.32E-01
191	2.67E-07	6.43E-02	8.29E-01
192	3.22E-07	7.80E-02	9.55E-01
193	4.03E-07	9.82E-02	1.13E+00
194	5.33E-07	1.31E-01	1.38E+00
195	7.63E-07	1.89E-01	1.82E+00
196	1.36E-06	3.43E-01	2.89E+00
197	1.81E-07	4.18E-02	5.99E-01
198	2.01E-07	4.71E-02	6.64E-01
199	2.22E-07	5.32E-02	7.45E-01
200	2.58E-07	6.26E-02	8.42E-01
201	3.11E-07	7.61E-02	9.69E-01
202	3.91E-07	9.68E-02	1.15E+00
203	5.20E-07	1.31E-01	1.40E+00
204	7.52E-07	1.94E-01	1.78E+00
205	1.38E-06	3.70E-01	2.34E+00
206	1.73E-07	3.99E-02	6.01E-01
207	1.92E-07	4.47E-02	6.64E-01
208	2.11E-07	5.05E-02	7.45E-01
209	2.44E-07	5.92E-02	8.51E-01
210	2.93E-07	7.18E-02	9.78E-01
211	3.65E-07	9.10E-02	1.14E+00
212	4.85E-07	1.24E-01	1.38E+00
213	7.12E-07	1.90E-01	1.70E+00
214	1.35E-06	4.17E-01	2.16E+00
215	1.61E-07	3.67E-02	5.97E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
216	1.82E-07	4.15E-02	6.66E-01
217	2.00E-07	4.65E-02	7.41E-01
218	2.30E-07	5.42E-02	8.40E-01
219	2.71E-07	6.48E-02	9.60E-01
220	3.31E-07	8.06E-02	1.12E+00
221	4.34E-07	1.08E-01	1.33E+00
222	6.27E-07	1.66E-01	1.63E+00
223	1.21E-06	3.99E-01	2.07E+00

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-06	92.75%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	1.59E-11	3.65E-10	4.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	4.28E-10	0.03%	B[a]P
6	9.02E-11	6.73E-10	8.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-10	8.50E-10	0.06%	D[a,h]anthracen
7	8.06E-14	1.85E-12	2.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-12	2.17E-12	0.00%	B[a]anthracene
8	2.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-11	0.00%	Chlordane
9	9.27E-13	6.44E-13	1.09E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-13	1.68E-12	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-08	1.96%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-09	0.25%	Benzene
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	2.27E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-14	0.00%	DiClDiPhEthylen
19	1.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-10	0.01%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	2.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-10	0.02%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	2.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-12	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	2.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-10	0.02%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	7.94E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-14	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	3.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-09	0.25%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	1.28E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-12	0.00%	3,3'DiClBenzidn
37	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.20%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	2.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.02%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-09	0.26%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
48	1.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-10	0.01%	p-DiClBenzene
49	1.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-11	0.00%	EDB
50	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-08	1.81%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
55	1.17E-12	2.80E-13	4.73E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-13	1.50E-12	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	1.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-11	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	6.42E-14	1.47E-12	1.91E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-12	1.73E-12	0.00%	In[1,2,3-cd]pyr
63	9.82E-14	2.25E-12	2.93E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-12	2.65E-12	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	7.09E-13	1.63E-11	2.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-11	1.91E-11	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	7.84E-14	1.80E-12	2.34E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-12	2.11E-12	0.00%	Chrysene
68	8.80E-13	6.11E-13	1.03E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-13	1.59E-12	0.00%	alphaHexClCycHx
69	8.50E-13	5.90E-13	9.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-13	1.54E-12	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	7.22E-11	1.35E-10	2.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-10	4.34E-10	0.03%	Lead
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
75	3.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-10	0.02%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	1.35E-09	6.24E-09	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-09	1.02E-08	0.74%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	5.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-11	0.00%	Beryllium
82	1.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-10	0.01%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	4.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-09	0.35%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.37E-06	7.43E-09	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.38E-06		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	2.18E-08	1.56E-11	6.29E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-11	2.18E-08	1.58%	STKP_L_S
2	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-09	0.11%	TRUCK_S
3	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.07%	TRUCK_N
4	4.26E-09	2.05E-12	8.26E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-12	4.26E-09	0.31%	STKP_L_N
5	2.83E-09	3.04E-09	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-09	7.10E-09	0.51%	HAUL_S
6	1.12E-09	4.85E-10	1.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-10	1.80E-09	0.13%	HAUL_N
7	3.36E-12	3.60E-12	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-12	8.41E-12	0.00%	2_1
8	4.21E-09	1.67E-13	7.27E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-13	4.21E-09	0.31%	2_2
9	2.38E-10	2.56E-10	1.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-10	5.98E-10	0.04%	3
10	2.65E-09	2.39E-10	9.65E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-10	2.99E-09	0.22%	4A
11	2.17E-09	1.84E-10	7.44E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-10	2.42E-09	0.18%	4B
12	4.35E-09	3.79E-10	1.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-10	4.88E-09	0.35%	4C
13	2.93E-08	2.51E-09	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-09	3.29E-08	2.38%	4D
14	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-08	3.97%	5
15	5.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-09	0.36%	6_1
16	4.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-10	0.03%	6_2
17	1.62E-09	6.84E-11	2.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-11	1.72E-09	0.12%	7
18	5.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-10	0.04%	8
19	1.93E-07	2.48E-10	1.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-10	1.93E-07	13.99%	1
20	5.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-10	0.04%	OFF_S
21	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-08	0.82%	STKP_LSD
22	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-09	0.12%	STKP_LND
23	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.23%	HAUL_SD
24	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-09	0.21%	HAUL_ND
25	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-09	0.19%	2_1D
26	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-08	6.07%	3D
27	7.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-08	5.28%	4AD
28	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-08	3.92%	4BD
29	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-07	7.90%	4CD
30	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-07	45.94%	4DD
31	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-08	2.12%	7D
32	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-09	0.15%	OFF_N
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	1.09E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-14	0.00%	AW_8
35	3.23E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-14	0.00%	B_7
36	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.20%	BENZ_1
SUM	1.37E-06	7.43E-09	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.38E-06		

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	3.13E-03	0.75%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	1.57E-01	37.65%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.76E-03	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	3.39E-04	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	3.39E-04	0.00%	Benzene
15	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	6.46E-05	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	1.85E-03	0.44%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.47E-05	0.01%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	1.21E-04	1.21E-04	0.00E+00	1.21E-04	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00%	Ethyl Benzene
44	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	0.00%	p-Xylene
48	0.00E+00	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-06	0.00E+00	2.20E-06	0.00E+00	2.20E-06	0.00E+00	0.00E+00	2.20E-06	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00%	EDC
51	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	6.34E-04	0.15%	m-Xylene
52	0.00E+00	8.05E-05	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	8.05E-05	0.02%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	1.04E-04	1.04E-04	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00%	Chlorobenzn
54	6.36E-09	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-09	0.00E+00	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-09	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	5.21E-05	0.01%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	1.54E-03	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-02	0.00E+00	2.23E-02	2.23E-02	5.35%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	2.31E-01	2.31E-01	0.00E+00	2.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-01	2.31E-01	0.00E+00	2.31E-01	55.40%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	7.58E-04	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	7.58E-04	0.18%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04	0.00E+00	5.15E-04	0.00E+00	0.00E+00	5.65E-04	0.12%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	1.65E-06	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-06	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	1.56E-06	4.22E-05	0.01%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	2.31E-01	2.35E-01	0.00E+00	2.36E-01	1.21E-04	0.00E+00	3.51E-03	7.58E-04	5.09E-03	1.60E-04	4.17E-01	2.31E-01	2.26E-02	4.17E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	2.61E-04	7.28E-04	0.00E+00	1.12E-03	3.18E-05	0.00E+00	9.24E-04	7.98E-07	7.92E-04	4.23E-05	9.72E-04	2.44E-04	1.13E-04	1.12E-03	0.23%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	1.68E-04	0.04%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.08E-04	0.03%	TRUCK_N
4	4.35E-05	1.56E-04	0.00E+00	2.49E-04	7.69E-06	0.00E+00	2.22E-04	1.29E-07	1.91E-04	1.02E-05	2.13E-04	3.94E-05	2.53E-05	2.49E-04	0.05%	STKP_L_N
5	1.29E-01	1.29E-01	0.00E+00	1.29E-01	0.00E+00	0.00E+00	6.36E-06	4.21E-04	1.17E-03	0.00E+00	1.42E-01	1.29E-01	1.24E-02	1.42E-01	34.05%	HAUL_S
6	1.19E-02	1.20E-02	0.00E+00	1.20E-02	1.52E-06	0.00E+00	4.45E-05	3.90E-05	1.45E-04	2.02E-06	1.31E-02	1.19E-02	1.15E-03	1.31E-02	3.14%	HAUL_N
7	7.65E-05	7.70E-05	0.00E+00	7.71E-05	0.00E+00	0.00E+00	3.79E-09	2.51E-07	6.94E-07	0.00E+00	8.43E-05	7.65E-05	7.38E-06	8.43E-05	0.02%	2_1
8	4.63E-06	4.68E-06	0.00E+00	4.67E-06	1.82E-09	0.00E+00	1.82E-09	0.00E+00	4.26E-08	0.00E+00	5.27E-04	4.63E-06	6.24E-07	5.27E-04	0.13%	2_2
9	5.94E-03	5.98E-03	0.00E+00	5.98E-03	0.00E+00	0.00E+00	2.93E-07	1.94E-05	5.39E-05	0.00E+00	6.77E-03	5.94E-03	5.72E-04	6.77E-03	1.62%	3
10	9.70E-03	9.90E-03	0.00E+00	1.00E-02	9.25E-06	0.00E+00	2.68E-04	3.18E-05	3.17E-04	1.22E-05	1.12E-02	9.70E-03	9.62E-04	1.12E-02	2.69%	4A
11	3.71E-03	3.79E-03	0.00E+00	3.83E-03	3.75E-06	0.00E+00	1.09E-04	1.22E-05	1.27E-04	4.97E-06	4.30E-03	3.70E-03	3.68E-04	4.30E-03	1.03%	4B
12	7.34E-03	7.50E-03	0.00E+00	7.59E-03	7.28E-06	0.00E+00	2.11E-04	2.41E-05	2.47E-04	9.62E-06	8.52E-03	7.34E-03	7.29E-04	8.52E-03	2.04%	4C
13	5.73E-02	5.85E-02	0.00E+00	5.93E-02	5.76E-05	0.00E+00	1.68E-03	1.88E-04	1.95E-03	7.66E-05	6.65E-02	5.73E-02	5.67E-03	6.65E-02	15.95%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	6.75E-03	1.62%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	1.97E-03	0.47%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	4.50E-05	0.01%	6_2
17	8.33E-04	8.65E-04	0.00E+00	8.88E-04	1.78E-06	0.00E+00	5.16E-05	2.74E-06	5.17E-05	2.36E-06	9.99E-04	8.33E-04	8.54E-05	9.99E-04	0.24%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	6.89E-05	0.02%	8
19	5.72E-03	5.76E-03	0.00E+00	5.76E-03	0.00E+00	0.00E+00	2.83E-07	1.88E-05	5.19E-05	0.00E+00	2.95E-02	5.72E-03	5.52E-04	2.95E-02	7.07%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	6.51E-05	0.02%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04	0.00E+00	0.00E+00	9.31E-04	0.22%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	1.69E-04	0.04%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03	0.00E+00	0.00E+00	3.35E-03	0.80%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04	0.09%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04	0.07%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.00E-02	2.40%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	1.48E-02	3.55%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	5.79E-03	1.39%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	1.12E-02	2.69%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-02	0.00E+00	0.00E+00	7.46E-02	17.89%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	1.91E-03	0.46%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	4.86E-04	0.12%	OFF_N
33	0.00E+00	7.19E-10	0.00E+00	3.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-10	0.00E+00	0.00E+00	7.19E-10	0.00%	B_4
34	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-09	0.00E+00	1.18E-09	0.00E+00	1.18E-09	0.00E+00	0.00E+00	1.18E-09	0.00%	AW_8
35	0.00E+00	1.15E-09	0.00E+00	1.86E-09	7.05E-10	0.00E+00	7.05E-10	0.00E+00	7.05E-10	0.00E+00	7.60E-10	0.00E+00	1.15E-09	1.86E-09	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	2.31E-01	2.35E-01	0.00E+00	2.36E-01	1.21E-04	0.00E+00	3.51E-03	7.58E-04	5.09E-03	1.60E-04	4.17E-01	2.31E-01	2.26E-02	4.17E-01		

ASCON Health Risk Assessment

MEI (Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	2.70E+00	0.00E+00	2.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00	93.43%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	7.64E-03	0.00E+00	0.00E+00	0.00E+00	7.64E-03	0.00E+00	7.64E-03	0.00E+00	0.00E+00	7.64E-03	7.64E-03	0.26%	Benzene
15	0.00E+00	4.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	9.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	9.91E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	3.84E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	1.44E-03	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	1.56E-04	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-03	0.00E+00	0.00E+00	9.86E-03	0.00%	m-Xylene
52	0.00E+00	3.19E-04	0.00E+00	3.19E-04	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	3.19E-04	3.19E-04	0.00E+00	0.00E+00	3.19E-04	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-08	0.00E+00	0.00E+00	7.44E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	7.09E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	8.11E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	6.50E-03	0.00E+00	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03	0.22%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	1.71E-01	1.71E-01	0.00E+00	1.71E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01	5.92%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	1.09E-02	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03	0.00E+00	0.00E+00	5.49E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.71E-01	2.88E+00	0.00E+00	2.89E+00	0.00E+00	1.86E-02	0.00E+00	5.37E-01	0.00E+00	2.71E+00	2.94E-02	0.00E+00	7.64E-03	2.89E+00		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	9.35E-04	4.97E-01	0.00E+00	4.97E-01	0.00E+00	2.42E-03	0.00E+00	4.30E-03	0.00E+00	4.96E-01	2.48E-03	0.00E+00	1.40E-03	4.97E-01	17.20%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	2.00E-04	2.22E-01	0.00E+00	2.23E-01	0.00E+00	1.08E-03	0.00E+00	1.25E-03	0.00E+00	2.22E-01	1.10E-03	0.00E+00	6.27E-04	2.23E-01	7.72%	STKP_L_N
5	2.81E-02	2.92E-02	0.00E+00	2.92E-02	0.00E+00	9.05E-04	0.00E+00	8.71E-02	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	8.71E-02	1.01%	HAUL_S
6	1.60E-02	3.16E-01	0.00E+00	3.16E-01	0.00E+00	1.96E-03	0.00E+00	5.06E-02	0.00E+00	3.00E-01	2.98E-03	0.00E+00	8.47E-04	3.16E-01	10.93%	HAUL_N
7	1.75E-03	1.81E-03	0.00E+00	1.81E-03	0.00E+00	5.63E-05	0.00E+00	5.43E-03	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	5.43E-03	0.06%	2_1
8	3.26E-07	3.37E-07	0.00E+00	3.37E-07	0.00E+00	1.78E-07	0.00E+00	1.41E-06	0.00E+00	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.41E-06	0.00%	2_2
9	7.47E-03	7.75E-03	0.00E+00	7.75E-03	0.00E+00	2.40E-04	0.00E+00	2.31E-02	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	2.31E-02	0.27%	3
10	9.58E-03	1.03E-01	0.00E+00	1.03E-01	0.00E+00	7.57E-04	0.00E+00	3.00E-02	0.00E+00	9.29E-02	1.37E-03	0.00E+00	2.63E-04	1.03E-01	3.56%	4A
11	8.24E-03	8.81E-02	0.00E+00	8.81E-02	0.00E+00	6.49E-04	0.00E+00	2.57E-02	0.00E+00	7.96E-02	1.18E-03	0.00E+00	2.25E-04	8.81E-02	3.05%	4B
12	9.61E-03	1.03E-01	0.00E+00	1.03E-01	0.00E+00	7.59E-04	0.00E+00	3.01E-02	0.00E+00	9.31E-02	1.37E-03	0.00E+00	2.63E-04	1.03E-01	3.56%	4C
13	1.34E-02	1.44E-01	0.00E+00	1.44E-01	0.00E+00	1.06E-03	0.00E+00	4.20E-02	0.00E+00	1.30E-01	1.91E-03	0.00E+00	3.68E-04	1.44E-01	4.98%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2
17	7.51E-02	1.37E+00	0.00E+00	1.37E+00	0.00E+00	8.67E-03	0.00E+00	2.36E-01	0.00E+00	1.30E+00	1.35E-02	0.00E+00	3.64E-03	1.37E+00	47.40%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8
19	3.10E-04	3.22E-04	0.00E+00	3.22E-04	0.00E+00	1.00E-05	0.00E+00	9.65E-04	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	9.65E-04	0.01%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
33	0.00E+00	7.36E-10	0.00E+00	7.36E-10	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	7.36E-10	3.55E-09	0.00E+00	0.00E+00	3.55E-09	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	1.49E-08	0.00E+00	1.49E-08	0.00E+00	0.00E+00	1.49E-08	1.49E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	1.71E-01	2.88E+00	0.00E+00	2.89E+00	0.00E+00	1.86E-02	0.00E+00	5.37E-01	0.00E+00	2.71E+00	2.94E-02	0.00E+00	7.64E-03	2.89E+00		

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (School Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	7.12E-07	1.58E-01	8.52E-01
2	5.92E-07	1.32E-01	7.95E-01
3	4.87E-07	1.10E-01	7.12E-01
4	4.08E-07	9.24E-02	6.59E-01
5	3.46E-07	7.88E-02	6.06E-01
6	2.99E-07	6.82E-02	5.59E-01
7	2.59E-07	5.92E-02	5.13E-01
8	2.26E-07	5.19E-02	4.77E-01
9	5.15E-07	1.16E-01	7.46E-01
10	4.55E-07	1.02E-01	6.95E-01
11	3.98E-07	9.00E-02	6.54E-01
12	3.46E-07	7.85E-02	5.94E-01
13	3.01E-07	6.86E-02	5.60E-01
14	2.66E-07	6.07E-02	5.21E-01
15	2.35E-07	5.37E-02	4.86E-01
16	2.09E-07	4.78E-02	4.53E-01
17	3.87E-07	8.75E-02	6.59E-01
18	3.56E-07	8.06E-02	6.29E-01
19	3.24E-07	7.34E-02	5.89E-01
20	2.91E-07	6.63E-02	5.56E-01
21	2.61E-07	5.95E-02	5.11E-01
22	2.33E-07	5.33E-02	4.86E-01
23	2.10E-07	4.81E-02	4.56E-01
24	1.90E-07	4.35E-02	4.30E-01
25	3.01E-07	6.84E-02	6.03E-01
26	2.85E-07	6.48E-02	5.66E-01
27	2.65E-07	6.04E-02	5.41E-01
28	2.44E-07	5.57E-02	5.11E-01
29	2.24E-07	5.11E-02	4.82E-01
30	2.04E-07	4.67E-02	4.50E-01
31	1.86E-07	4.27E-02	4.27E-01
32	1.71E-07	3.91E-02	4.04E-01
33	2.40E-07	5.49E-02	5.52E-01
34	2.32E-07	5.30E-02	5.28E-01
35	2.20E-07	5.03E-02	4.95E-01
36	2.07E-07	4.72E-02	4.71E-01
37	1.92E-07	4.40E-02	4.51E-01
38	1.78E-07	4.08E-02	4.23E-01
39	1.65E-07	3.78E-02	3.99E-01
40	1.53E-07	3.51E-02	3.81E-01
41	1.96E-07	4.50E-02	5.05E-01
42	1.92E-07	4.40E-02	4.87E-01
43	1.85E-07	4.24E-02	4.64E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (School Worker) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	1.76E-07	4.04E-02	4.36E-01
45	1.66E-07	3.81E-02	4.18E-01
46	1.56E-07	3.58E-02	4.02E-01
47	1.46E-07	3.35E-02	3.75E-01
48	1.37E-07	3.14E-02	3.58E-01
49	1.64E-07	3.76E-02	4.68E-01
50	1.62E-07	3.71E-02	4.50E-01
51	1.58E-07	3.62E-02	4.34E-01
52	1.52E-07	3.49E-02	4.17E-01
53	1.45E-07	3.33E-02	3.88E-01
54	1.37E-07	3.16E-02	3.73E-01
55	1.30E-07	2.98E-02	3.60E-01
56	1.22E-07	2.81E-02	3.39E-01
57	1.38E-07	3.19E-02	4.35E-01
58	1.38E-07	3.17E-02	4.21E-01
59	1.36E-07	3.12E-02	4.05E-01
60	1.32E-07	3.04E-02	3.88E-01
61	1.27E-07	2.93E-02	3.76E-01
62	1.22E-07	2.80E-02	3.49E-01
63	1.16E-07	2.66E-02	3.38E-01
64	1.10E-07	2.53E-02	3.28E-01

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-07	94.94%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	5.52E-12	1.27E-10	1.65E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-10	1.49E-10	0.02%	B[a]P
6	3.14E-11	2.34E-10	3.04E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-10	2.96E-10	0.04%	D[a,h]anthracen
7	2.79E-14	6.41E-13	8.34E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-13	7.53E-13	0.00%	B[a]anthracene
8	7.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-12	0.00%	Chlordane
9	3.22E-13	2.24E-13	3.78E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-13	5.83E-13	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.42%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-09	0.18%	Benzene
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	7.87E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-15	0.00%	DiClDiPhEthylen
19	5.79E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-11	0.01%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	9.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-11	0.01%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	7.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-13	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	7.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-11	0.01%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	2.76E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-14	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-09	0.18%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	4.43E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-13	0.00%	3,3'DiClBenzidn
37	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-09	0.89%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	8.82E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-11	0.01%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-09	0.19%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
48	4.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-11	0.01%	p-DiClBenzene
49	7.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-12	0.00%	EDB
50	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-09	1.30%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
55	4.14E-13	9.88E-14	1.67E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-13	5.29E-13	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	3.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-12	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	2.23E-14	5.12E-13	6.65E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-13	6.01E-13	0.00%	In[1,2,3-cd]pyr
63	3.41E-14	7.82E-13	1.02E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-13	9.18E-13	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	2.46E-13	5.65E-12	7.34E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-12	6.63E-12	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	2.72E-14	6.25E-13	8.12E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-13	7.33E-13	0.00%	Chrysene
68	3.06E-13	2.12E-13	3.59E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-13	5.54E-13	0.00%	alphaHexClCycHx
69	2.95E-13	2.05E-13	3.46E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-13	5.35E-13	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	2.51E-11	4.68E-11	7.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-10	1.51E-10	0.02%	Lead
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
75	1.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-10	0.02%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	4.70E-10	2.16E-09	9.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-09	3.55E-09	0.50%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	1.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-11	0.00%	Beryllium
82	6.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-11	0.01%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-09	0.24%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	7.08E-07	2.58E-09	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-09	7.12E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	3.81E-09	2.73E-12	1.10E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-12	3.82E-09	0.54%	STKP_L_S
2	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-09	0.20%	TRUCK_S
3	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-09	0.24%	TRUCK_N
4	5.13E-09	2.47E-12	9.95E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-12	5.13E-09	0.72%	STKP_L_N
5	3.45E-10	3.69E-10	1.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-10	8.63E-10	0.12%	HAUL_S
6	8.21E-10	3.57E-10	1.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-10	1.32E-09	0.19%	HAUL_N
7	5.05E-12	5.41E-12	2.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-12	1.26E-11	0.00%	2_1
8	8.45E-09	3.35E-13	1.46E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-13	8.45E-09	1.19%	2_2
9	3.56E-10	3.83E-10	1.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-10	8.94E-10	0.13%	3
10	5.33E-09	4.80E-10	1.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-10	6.00E-09	0.84%	4A
11	3.93E-09	3.35E-10	1.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-10	4.40E-09	0.62%	4B
12	2.65E-09	2.31E-10	9.33E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-10	2.98E-09	0.42%	4C
13	3.37E-09	2.89E-10	1.17E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-10	3.78E-09	0.53%	4D
14	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-08	4.24%	5
15	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-09	0.23%	6_1
16	4.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-10	0.06%	6_2
17	1.76E-10	7.42E-12	2.99E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-11	1.86E-10	0.03%	7
18	2.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-10	0.04%	8
19	9.16E-08	1.18E-10	4.76E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-10	9.18E-08	12.89%	1
20	5.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-10	0.08%	OFF_S
21	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-09	0.28%	STKP_LSD
22	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-09	0.28%	STKP_LND
23	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-09	0.31%	HAUL_SD
24	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-09	0.31%	HAUL_ND
25	3.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-09	0.56%	2_1D
26	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-07	17.56%	3D
27	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07	20.37%	4AD
28	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	14.19%	4BD
29	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-08	9.54%	4CD
30	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-08	11.83%	4DD
31	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-09	0.46%	7D
32	7.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-10	0.11%	OFF_N
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	2.50E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-15	0.00%	AW_8
35	4.59E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-14	0.00%	B_7
36	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-09	0.89%	BENZ_1
SUM	7.08E-07	2.58E-09	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-09	7.12E-07		

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	1.55E-03	0.98%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-02	0.00E+00	0.00E+00	8.60E-02	54.43%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	1.24E-03	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	1.52E-04	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	1.52E-04	0.00%	Benzene
15	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	2.89E-05	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	8.34E-04	0.53%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	1.10E-05	0.01%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	5.41E-05	5.41E-05	0.00E+00	5.41E-05	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00%	Ethyl Benzene
44	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	4.48E-06	0.00%	p-Xylene
48	0.00E+00	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-07	0.00E+00	9.86E-07	0.00E+00	9.86E-07	0.00E+00	0.00E+00	9.86E-07	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00%	EDC
51	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.18%	m-Xylene
52	0.00E+00	3.60E-05	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	3.60E-05	0.02%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	4.66E-05	4.66E-05	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00%	Chlorobenzn
54	1.73E-09	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-09	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-09	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	2.34E-05	0.01%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	4.18E-04	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03	0.00E+00	6.07E-03	6.07E-03	3.84%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	6.30E-02	6.30E-02	0.00E+00	6.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-02	6.30E-02	0.00E+00	6.30E-02	39.87%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-06	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.13%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	1.54E-04	0.09%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	4.49E-07	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-07	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	4.24E-07	1.15E-05	0.01%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	6.30E-02	6.42E-02	0.00E+00	6.50E-02	5.41E-05	0.00E+00	1.57E-03	2.07E-04	1.91E-03	7.17E-05	1.58E-01	6.30E-02	6.23E-03	1.58E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	7.13E-05	1.99E-04	0.00E+00	3.05E-04	8.71E-06	0.00E+00	2.53E-04	2.18E-07	2.17E-04	1.16E-05	2.66E-04	6.67E-05	3.09E-05	3.05E-04	0.17%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	1.84E-04	0.12%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.14%	TRUCK_N
4	6.65E-05	2.39E-04	0.00E+00	3.81E-04	1.18E-05	0.00E+00	3.40E-04	1.97E-07	2.91E-04	1.56E-05	3.25E-04	6.02E-05	3.87E-05	3.81E-04	0.21%	STKP_L_N
5	9.02E-03	9.08E-03	0.00E+00	9.09E-03	0.00E+00	0.00E+00	4.46E-07	2.96E-05	8.19E-05	0.00E+00	9.94E-03	9.02E-03	8.70E-04	9.94E-03	6.29%	HAUL_S
6	8.71E-03	8.78E-03	0.00E+00	8.80E-03	1.11E-06	0.00E+00	3.27E-05	2.87E-05	1.07E-04	1.48E-06	9.62E-03	8.71E-03	8.42E-04	9.62E-03	6.09%	HAUL_N
7	1.32E-04	1.33E-04	0.00E+00	1.33E-04	0.00E+00	0.00E+00	6.54E-09	4.33E-07	1.20E-06	0.00E+00	1.46E-04	1.32E-04	1.27E-05	1.46E-04	0.09%	2_1
8	9.59E-06	9.69E-06	0.00E+00	9.66E-06	3.77E-09	0.00E+00	3.77E-09	0.00E+00	8.81E-08	0.00E+00	1.09E-03	9.59E-06	1.29E-06	1.09E-03	0.69%	2_2
9	9.35E-03	9.41E-03	0.00E+00	9.42E-03	0.00E+00	0.00E+00	4.61E-07	3.05E-05	8.49E-05	0.00E+00	1.07E-02	9.35E-03	9.00E-04	1.07E-02	6.77%	3
10	1.17E-02	1.20E-02	0.00E+00	1.21E-02	1.12E-05	0.00E+00	3.24E-04	3.84E-05	3.83E-04	1.48E-05	1.36E-02	1.17E-02	1.16E-03	1.36E-02	8.61%	4A
11	8.18E-03	8.35E-03	0.00E+00	8.46E-03	8.28E-06	0.00E+00	2.41E-04	2.69E-05	2.79E-04	1.10E-05	9.49E-03	8.17E-03	8.11E-04	9.49E-03	6.01%	4B
12	5.65E-03	5.77E-03	0.00E+00	5.84E-03	5.60E-06	0.00E+00	1.62E-04	1.85E-05	1.90E-04	7.40E-06	6.55E-03	5.64E-03	5.61E-04	6.55E-03	4.15%	4C
13	7.06E-03	7.21E-03	0.00E+00	7.30E-03	7.10E-06	0.00E+00	2.06E-04	2.31E-05	2.40E-04	9.43E-06	8.19E-03	7.05E-03	6.99E-04	8.19E-03	5.18%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	3.84E-03	2.43%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04	0.13%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	5.72E-05	0.04%	6_2
17	1.81E-04	1.88E-04	0.00E+00	1.93E-04	3.87E-07	0.00E+00	1.12E-05	5.95E-07	1.12E-05	5.13E-07	2.17E-04	1.81E-04	1.86E-05	2.17E-04	0.14%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	3.78E-05	0.02%	8
19	2.88E-03	2.89E-03	0.00E+00	2.90E-03	0.00E+00	0.00E+00	1.42E-07	9.43E-06	2.61E-05	0.00E+00	1.48E-02	2.88E-03	2.78E-04	1.48E-02	9.37%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	7.13E-05	0.05%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.16%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.16%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.18%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.18%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	5.04E-04	0.32%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.59E-02	10.06%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	1.84E-02	11.65%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	1.28E-02	8.10%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03	0.00E+00	0.00E+00	8.64E-03	5.47%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	1.07E-02	6.77%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04	0.26%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	9.55E-05	0.06%	OFF_N
33	0.00E+00	2.37E-10	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	2.37E-10	0.00%	B_4
34	0.00E+00	5.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	5.46E-11	0.00E+00	0.00E+00	5.46E-11	0.00%	AW_8
35	0.00E+00	1.85E-09	0.00E+00	2.99E-09	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.13E-09	0.00E+00	1.22E-09	0.00E+00	1.85E-09	2.99E-09	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	6.30E-02	6.42E-02	0.00E+00	6.50E-02	5.41E-05	0.00E+00	1.57E-03	2.07E-04	1.91E-03	7.17E-05	1.58E-01	6.30E-02	6.23E-03	1.58E-01		

ASCON Health Risk Assessment

MEI (School Worker) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	7.85E-01	0.00E+00	7.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-01	0.00E+00	0.00E+00	0.00E+00	7.85E-01	92.14%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	2.22E-03	0.00E+00	0.00E+00	2.22E-03	2.22E-03	0.26%	Benzene
15	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	2.88E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	1.12E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	4.18E-04	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	4.53E-05	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	2.87E-03	0.00%	m-Xylene
52	0.00E+00	9.28E-05	0.00E+00	9.28E-05	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	9.28E-05	9.28E-05	0.00E+00	0.00E+00	9.28E-05	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	2.73E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	2.07E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	2.38E-03	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.28%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	6.26E-02	6.26E-02	0.00E+00	6.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-02	7.35%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	3.99E-03	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	2.01E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	6.26E-02	8.52E-01	0.00E+00	8.52E-01	0.00E+00	5.82E-03	0.00E+00	1.96E-01	0.00E+00	7.87E-01	9.80E-03	0.00E+00	2.22E-03	8.52E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	1.36E-04	7.20E-02	0.00E+00	7.21E-02	0.00E+00	3.51E-04	0.00E+00	6.24E-04	0.00E+00	7.19E-02	3.59E-04	0.00E+00	2.03E-04	7.21E-02	8.46%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	1.55E-04	1.73E-01	0.00E+00	1.73E-01	0.00E+00	8.41E-04	0.00E+00	9.71E-04	0.00E+00	1.73E-01	8.51E-04	0.00E+00	4.87E-04	1.73E-01	20.31%	STKP_L_N
5	7.01E-03	7.28E-03	0.00E+00	7.28E-03	0.00E+00	2.26E-04	0.00E+00	2.17E-02	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	2.17E-02	0.85%	HAUL_S
6	7.90E-03	1.56E-01	0.00E+00	1.56E-01	0.00E+00	9.65E-04	0.00E+00	2.49E-02	0.00E+00	1.48E-01	1.47E-03	0.00E+00	4.17E-04	1.56E-01	18.31%	HAUL_N
7	1.81E-03	1.88E-03	0.00E+00	1.88E-03	0.00E+00	5.83E-05	0.00E+00	5.62E-03	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	5.62E-03	0.22%	2_1
8	3.93E-07	4.06E-07	0.00E+00	4.06E-07	0.00E+00	2.15E-07	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.23E-07	0.00E+00	0.00E+00	1.70E-06	0.00%	2_2
9	8.93E-03	9.27E-03	0.00E+00	9.27E-03	0.00E+00	2.87E-04	0.00E+00	2.77E-02	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	2.77E-02	1.09%	3
10	1.03E-02	1.11E-01	0.00E+00	1.11E-01	0.00E+00	8.17E-04	0.00E+00	3.23E-02	0.00E+00	1.00E-01	1.47E-03	0.00E+00	2.83E-04	1.11E-01	13.03%	4A
11	1.09E-02	1.16E-01	0.00E+00	1.16E-01	0.00E+00	8.57E-04	0.00E+00	3.39E-02	0.00E+00	1.05E-01	1.55E-03	0.00E+00	2.97E-04	1.16E-01	13.62%	4B
12	7.01E-03	7.51E-02	0.00E+00	7.52E-02	0.00E+00	5.54E-04	0.00E+00	2.19E-02	0.00E+00	6.79E-02	1.00E-03	0.00E+00	1.92E-04	7.52E-02	8.83%	4C
13	2.52E-03	2.71E-02	0.00E+00	2.71E-02	0.00E+00	1.99E-04	0.00E+00	7.90E-03	0.00E+00	2.45E-02	3.60E-04	0.00E+00	6.92E-05	2.71E-02	3.18%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2
17	5.66E-03	1.03E-01	0.00E+00	1.04E-01	0.00E+00	6.54E-04	0.00E+00	1.78E-02	0.00E+00	9.77E-02	1.01E-03	0.00E+00	2.75E-04	1.04E-01	12.21%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8
19	2.27E-04	2.36E-04	0.00E+00	2.36E-04	0.00E+00	7.35E-06	0.00E+00	7.08E-04	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	7.08E-04	0.03%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
33	0.00E+00	1.32E-10	0.00E+00	1.32E-10	0.00E+00	6.35E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-10	6.35E-10	0.00E+00	0.00E+00	6.35E-10	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	1.42E-08	1.42E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	6.26E-02	8.52E-01	0.00E+00	8.52E-01	0.00E+00	5.82E-03	0.00E+00	1.96E-01	0.00E+00	7.87E-01	9.80E-03	0.00E+00	2.22E-03	8.52E-01		

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Fire Station and Park) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
1	1.10E-06	1.05E-03	1.07E+00
2	1.37E-06	1.34E-03	1.25E+00
3	1.83E-06	1.89E-03	1.48E+00
4	2.85E-06	3.21E-03	1.79E+00
5	4.80E-06	5.26E-03	1.94E+00
6	5.30E-06	5.21E-03	2.07E+00
7	5.98E-06	5.92E-03	2.12E+00
8	6.34E-06	5.94E-03	1.60E+00
9	6.63E-06	6.02E-03	1.47E+00
10	6.57E-06	5.88E-03	1.32E+00
11	6.23E-06	5.53E-03	1.20E+00
12	5.40E-06	4.76E-03	1.12E+00
13	2.28E-06	2.31E-03	1.53E+00
14	2.76E-06	2.73E-03	1.48E+00
15	3.11E-06	3.01E-03	1.46E+00
16	3.28E-06	3.11E-03	1.30E+00
17	3.45E-06	3.19E-03	1.18E+00
18	3.54E-06	3.21E-03	1.09E+00
19	3.42E-06	3.07E-03	9.98E-01
20	3.10E-06	2.78E-03	9.25E-01
21	1.52E-06	1.50E-03	1.20E+00
22	1.77E-06	1.73E-03	1.16E+00
23	1.98E-06	1.90E-03	1.15E+00
24	2.12E-06	2.01E-03	1.08E+00
25	2.21E-06	2.07E-03	9.99E-01
26	2.27E-06	2.09E-03	9.23E-01
27	2.22E-06	2.03E-03	8.57E-01
28	2.10E-06	1.91E-03	7.89E-01
29	1.12E-06	1.09E-03	9.90E-01
30	1.24E-06	1.20E-03	9.74E-01
31	1.38E-06	1.33E-03	9.49E-01
32	1.49E-06	1.41E-03	9.08E-01
33	1.56E-06	1.46E-03	8.54E-01
34	1.59E-06	1.48E-03	8.05E-01
35	1.58E-06	1.46E-03	7.45E-01
36	1.53E-06	1.40E-03	7.03E-01
37	8.68E-07	8.35E-04	8.44E-01
38	9.36E-07	8.98E-04	8.28E-01
39	1.03E-06	9.86E-04	8.05E-01
40	1.10E-06	1.04E-03	7.80E-01
41	1.15E-06	1.08E-03	7.49E-01
42	1.18E-06	1.10E-03	7.21E-01
43	1.18E-06	1.10E-03	6.72E-01

ASCON Health Risk Assessment

Cancer, Chronic and Acute Risk (Fire Station and Park) - Alternative 6

Receptor	Cancer Risk	Chronic Risk	Acute Risk
44	1.16E-06	1.07E-03	6.44E-01
45	7.02E-07	6.72E-04	7.37E-01
46	7.55E-07	7.20E-04	7.18E-01
47	8.06E-07	7.66E-04	6.97E-01
48	8.51E-07	8.06E-04	6.87E-01
49	8.88E-07	8.37E-04	6.60E-01
50	9.10E-07	8.53E-04	6.42E-01
51	9.16E-07	8.55E-04	6.11E-01
52	9.14E-07	8.49E-04	5.85E-01
53	5.81E-07	5.54E-04	6.53E-01
54	6.16E-07	5.85E-04	6.41E-01
55	6.50E-07	6.15E-04	6.19E-01
56	6.81E-07	6.43E-04	6.08E-01
57	7.07E-07	6.67E-04	5.92E-01
58	7.27E-07	6.83E-04	5.75E-01
59	7.33E-07	6.87E-04	5.58E-01
60	7.39E-07	6.90E-04	5.35E-01
61	4.91E-07	4.66E-04	5.82E-01
62	5.14E-07	4.86E-04	5.76E-01
63	5.37E-07	5.07E-04	5.64E-01
64	5.59E-07	5.27E-04	5.51E-01
65	5.79E-07	5.45E-04	5.32E-01
66	5.94E-07	5.59E-04	5.22E-01
67	6.05E-07	5.68E-04	5.09E-01
68	6.11E-07	5.71E-04	4.90E-01
69	4.21E-07	3.99E-04	5.31E-01
70	4.37E-07	4.13E-04	5.21E-01

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Cancer Risk by Chemical

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-07	94.75%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	7.12E-12	1.63E-10	2.12E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-10	1.92E-10	0.02%	B[a]P
6	4.04E-11	3.02E-10	3.92E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-10	3.81E-10	0.04%	D[a,h]anthracen
7	3.60E-14	8.27E-13	1.08E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-13	9.71E-13	0.00%	B[a]anthracene
8	9.68E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-12	0.00%	Chlordane
9	4.15E-13	2.88E-13	4.87E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-13	7.52E-13	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.33%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-09	0.17%	Benzene
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	1.02E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-14	0.00%	DiClDiPhEthylen
19	7.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-11	0.01%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	1.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-10	0.01%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	9.43E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-13	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	9.45E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-11	0.01%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	3.55E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-14	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-09	0.17%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	5.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-13	0.00%	3,3'DiClBenzidn
37	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-08	1.26%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	1.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-10	0.01%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-09	0.18%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-Xylene
48	5.45E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-11	0.01%	p-DiClBenzene
49	8.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-12	0.00%	EDB
50	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-08	1.23%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	m-Xylene
52	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenol
55	5.30E-13	1.27E-13	2.14E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-13	6.78E-13	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	4.72E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-12	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	2.88E-14	6.60E-13	8.58E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-13	7.75E-13	0.00%	In[1,2,3-cd]pyr
63	4.39E-14	1.01E-12	1.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-12	1.18E-12	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	3.17E-13	7.28E-12	9.46E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-12	8.54E-12	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	3.51E-14	8.06E-13	1.05E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-13	9.45E-13	0.00%	Chrysene
68	3.94E-13	2.74E-13	4.63E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-13	7.15E-13	0.00%	alphaHexClCycHx
69	3.81E-13	2.64E-13	4.47E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-13	6.90E-13	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	3.24E-11	6.03E-11	1.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	1.95E-10	0.02%	Lead
74	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Mercury
75	1.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-10	0.02%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	6.06E-10	2.79E-09	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-09	4.58E-09	0.50%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	2.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-11	0.00%	Beryllium
82	7.75E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-11	0.01%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-09	0.24%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	9.10E-07	3.33E-09	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-09	9.14E-07		

Cancer Risk by Source

SRC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL	%	Source
1	4.90E-09	3.51E-12	1.42E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-12	4.91E-09	0.54%	STKP_L_S
2	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-09	0.14%	TRUCK_S
3	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-09	0.16%	TRUCK_N
4	5.29E-09	2.54E-12	1.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-12	5.29E-09	0.58%	STKP_L_N
5	4.46E-10	4.78E-10	1.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-10	1.12E-09	0.12%	HAUL_S
6	1.09E-09	4.74E-10	1.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-10	1.76E-09	0.19%	HAUL_N
7	4.54E-12	4.87E-12	1.96E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-12	1.14E-11	0.00%	2_1
8	7.54E-09	2.99E-13	1.30E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-13	7.54E-09	0.82%	2_2
9	4.87E-10	5.24E-10	2.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-10	1.22E-09	0.13%	3
10	7.89E-09	7.11E-10	2.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-10	8.89E-09	0.97%	4A
11	3.69E-09	3.14E-10	1.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-10	4.13E-09	0.45%	4B
12	3.36E-09	2.93E-10	1.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-10	3.78E-09	0.41%	4C
13	4.18E-09	3.58E-10	1.45E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-10	4.69E-09	0.51%	4D
14	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-08	4.32%	5
15	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-09	0.31%	6_1
16	4.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-10	0.05%	6_2
17	2.18E-10	9.21E-12	3.72E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-11	2.31E-10	0.03%	7
18	3.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-10	0.04%	8
19	1.20E-07	1.55E-10	6.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-10	1.20E-07	13.13%	1
20	5.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-10	0.06%	OFF_S
21	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-09	0.29%	STKP_LSD
22	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-09	0.23%	STKP_LND
23	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-09	0.32%	HAUL_SD
24	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-09	0.33%	HAUL_ND
25	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-09	0.39%	2_1D
26	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07	18.82%	3D
27	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-07	23.41%	4AD
28	9.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-08	10.46%	4BD
29	8.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-08	9.45%	4CD
30	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	11.49%	4DD
31	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-09	0.44%	7D
32	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-09	0.13%	OFF_N
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B_4
34	4.21E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-15	0.00%	AW_8
35	4.03E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-14	0.00%	B_7
36	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-08	1.26%	BENZ_1
SUM	9.10E-07	3.33E-09	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-09	9.14E-07		

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Chronic Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	1.98E-03	0.98%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00	1.10E-01	54.19%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	1.50E-03	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	1.84E-04	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	1.84E-04	0.00%	Benzene
15	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	3.50E-05	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	1.01E-03	0.50%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	1.34E-05	0.01%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	6.55E-05	6.55E-05	0.00E+00	6.55E-05	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00%	Ethyl Benzene
44	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	5.42E-06	0.00%	p-Xylene
48	0.00E+00	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	0.00E+00	1.19E-06	0.00E+00	1.19E-06	0.00E+00	0.00E+00	1.19E-06	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00%	EDC
51	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04	0.17%	m-Xylene
52	0.00E+00	4.36E-05	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.36E-05	0.02%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	5.64E-05	5.64E-05	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00%	Chlorobenzn
54	2.23E-09	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-09	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-09	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06	0.00E+00	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	2.83E-05	0.01%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	5.39E-04	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	7.83E-03	7.83E-03	3.86%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	8.12E-02	8.12E-02	0.00E+00	8.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-02	8.12E-02	0.00E+00	8.12E-02	40.00%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-06	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.13%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	1.81E-04	0.00E+00	0.00E+00	1.99E-04	0.09%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	5.79E-07	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-07	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	5.47E-07	1.48E-05	0.01%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	8.13E-02	8.28E-02	0.00E+00	8.36E-02	6.55E-05	0.00E+00	1.90E-03	2.66E-04	2.36E-03	8.68E-05	2.03E-01	8.12E-02	8.02E-03	2.03E-01		

Chronic Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source	
1	9.17E-05	2.56E-04	0.00E+00	3.92E-04	1.12E-05	0.00E+00	3.25E-04	2.81E-07	2.79E-04	1.49E-05	3.42E-04	8.57E-05	3.97E-05	3.92E-04	0.17%	STKP_L_S	
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	1.68E-04	0.08%	TRUCK_S	
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	1.87E-04	0.09%	TRUCK_N	
4	6.85E-05	2.46E-04	0.00E+00	3.93E-04	1.21E-05	0.00E+00	3.50E-04	2.03E-07	3.00E-04	1.61E-05	3.35E-04	6.21E-05	3.99E-05	3.93E-04	0.17%	STKP_L_N	
5	1.17E-02	1.17E-02	0.00E+00	1.18E-02	0.00E+00	0.00E+00	5.77E-07	3.82E-05	1.06E-04	0.00E+00	1.29E-02	1.17E-02	1.13E-03	1.29E-02	6.35%	HAUL_S	
6	1.16E-02	1.17E-02	0.00E+00	1.17E-02	1.48E-06	0.00E+00	4.34E-05	3.81E-05	1.42E-04	1.97E-06	1.28E-02	1.16E-02	1.12E-03	1.28E-02	6.31%	HAUL_N	
7	1.19E-04	1.20E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00	5.88E-09	3.89E-07	1.08E-06	0.00E+00	1.31E-04	1.19E-04	1.14E-05	1.31E-04	0.06%	2_1	
8	8.56E-06	8.64E-06	0.00E+00	8.62E-06	3.36E-09	0.00E+00	3.36E-09	0.00E+00	7.86E-08	0.00E+00	9.74E-04	8.56E-06	1.15E-06	9.74E-04	0.48%	2_2	
9	1.28E-02	1.29E-02	0.00E+00	1.29E-02	0.00E+00	0.00E+00	6.31E-07	4.18E-05	1.16E-04	0.00E+00	1.46E-02	1.28E-02	1.23E-03	1.46E-02	7.19%		3
10	1.74E-02	1.77E-02	0.00E+00	1.79E-02	1.66E-05	0.00E+00	4.80E-04	5.69E-05	5.68E-04	2.19E-05	2.01E-02	1.74E-02	1.72E-03	2.01E-02	9.90%	4A	
11	7.68E-03	7.84E-03	0.00E+00	7.94E-03	7.77E-06	0.00E+00	2.26E-04	2.52E-05	2.62E-04	1.03E-05	8.91E-03	7.67E-03	7.61E-04	8.91E-03	4.39%	4B	
12	7.16E-03	7.31E-03	0.00E+00	7.41E-03	7.10E-06	0.00E+00	2.06E-04	2.35E-05	2.41E-04	9.38E-06	8.31E-03	7.16E-03	7.11E-04	8.31E-03	4.09%	4C	
13	8.75E-03	8.94E-03	0.00E+00	9.05E-03	8.81E-06	0.00E+00	2.56E-04	2.87E-05	2.98E-04	1.17E-05	1.02E-02	8.75E-03	8.67E-04	1.02E-02	5.02%	4D	
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	5.02E-03	2.47%		5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	3.63E-04	0.18%	6_1	
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	5.30E-05	0.03%	6_2	
17	2.25E-04	2.34E-04	0.00E+00	2.40E-04	4.81E-07	0.00E+00	1.39E-05	7.39E-07	1.40E-05	6.37E-07	2.70E-04	2.25E-04	2.31E-05	2.70E-04	0.13%		7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	4.96E-05	0.02%		8
19	3.77E-03	3.80E-03	0.00E+00	3.80E-03	0.00E+00	0.00E+00	1.87E-07	1.24E-05	3.42E-05	0.00E+00	1.94E-02	3.77E-03	3.64E-04	1.94E-02	9.56%		1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	6.84E-05	0.03%	OFF_S	
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04	0.16%	STKP_LSD	
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.13%	STKP_LND	
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04	0.18%	HAUL_SD	
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04	0.19%	HAUL_ND	
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	4.54E-04	0.22%	2_1D	
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	2.19E-02	10.79%	3D	
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	0.00E+00	0.00E+00	2.73E-02	13.45%	4AD	
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	1.22E-02	6.01%	4BD	
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	1.10E-02	5.42%	4CD	
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	1.33E-02	6.55%	4DD	
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	5.17E-04	0.25%	7D	
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04	0.07%	OFF_N	
33	0.00E+00	2.97E-10	0.00E+00	1.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-10	0.00E+00	0.00E+00	2.97E-10	0.00%	B_4	
34	0.00E+00	9.22E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	9.22E-11	0.00E+00	0.00E+00	9.22E-11	0.00%	AW_8	
35	0.00E+00	1.62E-09	0.00E+00	2.62E-09	9.94E-10	0.00E+00	9.94E-10	0.00E+00	9.94E-10	0.00E+00	1.07E-09	0.00E+00	1.62E-09	2.62E-09	0.00%	B_7	
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1	
SUM	8.13E-02	8.28E-02	0.00E+00	8.36E-02	6.55E-05	0.00E+00	1.90E-03	2.66E-04	2.36E-03	8.68E-05	2.03E-01	8.12E-02	8.02E-03	2.03E-01			

ASCON Health Risk Assessment

MEI (Fire Station) Cancer, Chronic and Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	9.21E-01	0.00E+00	9.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-01	0.00E+00	0.00E+00	0.00E+00	9.21E-01	92.28%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	2.61E-03	0.00E+00	0.00E+00	2.61E-03	2.61E-03	0.26%	Benzene
15	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.38E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	1.31E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	4.91E-04	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	5.31E-05	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	3.36E-03	0.00%	m-Xylene
52	0.00E+00	1.09E-04	0.00E+00	1.09E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	1.09E-04	1.09E-04	0.00E+00	0.00E+00	1.09E-04	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	3.10E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	2.42E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	2.71E-03	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.27%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	7.11E-02	7.11E-02	0.00E+00	7.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-02	7.12%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	4.53E-03	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	2.29E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	7.11E-02	9.97E-01	0.00E+00	9.98E-01	0.00E+00	6.75E-03	0.00E+00	2.23E-01	0.00E+00	9.24E-01	1.13E-02	0.00E+00	2.61E-03	9.98E-01		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source	
1	1.77E-04	9.39E-02	0.00E+00	9.40E-02	0.00E+00	4.58E-04	0.00E+00	8.14E-04	0.00E+00	9.38E-02	4.69E-04	0.00E+00	2.65E-04	9.40E-02	9.42%	STKP_L_S	
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S	
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N	
4	1.86E-04	2.06E-01	0.00E+00	2.07E-01	0.00E+00	1.01E-03	0.00E+00	1.16E-03	0.00E+00	2.06E-01	1.02E-03	0.00E+00	5.83E-04	2.07E-01	20.74%	STKP_L_N	
5	8.51E-03	8.83E-03	0.00E+00	8.83E-03	0.00E+00	2.74E-04	0.00E+00	2.64E-02	0.00E+00	0.00E+00	8.16E-04	0.00E+00	0.00E+00	2.64E-02	0.88%	HAUL_S	
6	9.15E-03	1.80E-01	0.00E+00	1.80E-01	0.00E+00	1.12E-03	0.00E+00	2.89E-02	0.00E+00	1.71E-01	1.70E-03	0.00E+00	4.83E-04	1.81E-01	18.04%	HAUL_N	
7	1.82E-03	1.89E-03	0.00E+00	1.89E-03	0.00E+00	5.88E-05	0.00E+00	5.67E-03	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	5.67E-03	0.19%	2_1	
8	3.98E-07	4.11E-07	0.00E+00	4.11E-07	0.00E+00	2.18E-07	0.00E+00	1.72E-06	0.00E+00	0.00E+00	2.26E-07	0.00E+00	0.00E+00	1.72E-06	0.00%	2_2	
9	9.71E-03	1.01E-02	0.00E+00	1.01E-02	0.00E+00	3.12E-04	0.00E+00	3.01E-02	0.00E+00	0.00E+00	9.30E-04	0.00E+00	0.00E+00	3.01E-02	1.01%		3
10	9.67E-03	1.04E-01	0.00E+00	1.04E-01	0.00E+00	7.64E-04	0.00E+00	3.03E-02	0.00E+00	9.37E-02	1.38E-03	0.00E+00	2.65E-04	1.04E-01	10.42%	4A	
11	1.22E-02	1.30E-01	0.00E+00	1.30E-01	0.00E+00	9.59E-04	0.00E+00	3.80E-02	0.00E+00	1.18E-01	1.74E-03	0.00E+00	3.32E-04	1.30E-01	13.03%	4B	
12	9.39E-03	1.01E-01	0.00E+00	1.01E-01	0.00E+00	7.42E-04	0.00E+00	2.94E-02	0.00E+00	9.09E-02	1.34E-03	0.00E+00	2.57E-04	1.01E-01	10.12%	4C	
13	3.13E-03	3.37E-02	0.00E+00	3.37E-02	0.00E+00	2.48E-04	0.00E+00	9.84E-03	0.00E+00	3.05E-02	4.48E-04	0.00E+00	8.61E-05	3.37E-02	3.38%	4D	
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1	
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2	
17	6.97E-03	1.27E-01	0.00E+00	1.27E-01	0.00E+00	8.05E-04	0.00E+00	2.19E-02	0.00E+00	1.20E-01	1.25E-03	0.00E+00	3.38E-04	1.28E-01	12.73%		7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%		8
19	2.30E-04	2.39E-04	0.00E+00	2.39E-04	0.00E+00	7.44E-06	0.00E+00	7.16E-04	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	7.16E-04	0.02%		1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S	
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD	
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND	
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD	
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND	
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D	
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D	
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD	
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD	
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD	
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD	
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D	
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N	
33	0.00E+00	1.63E-10	0.00E+00	1.63E-10	0.00E+00	7.86E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-10	7.86E-10	0.00E+00	0.00E+00	7.86E-10	0.00%	B_4	
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8	
35	0.00E+00	0.00E+00	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	1.41E-08	1.41E-08	0.00%	B_7	
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1	
SUM	7.11E-02	9.97E-01	0.00E+00	9.98E-01	0.00E+00	6.75E-03	0.00E+00	2.23E-01	0.00E+00	9.24E-01	1.13E-02	0.00E+00	2.61E-03	9.98E-01			

ASCON Health Risk Assessment

MEI (Park) Acute Risk Breakdown by Chemical and Source - Alternative 6

Acute Risk by Chemical

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Chem
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead cmpd(org)
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silica, Crystln
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DieselExhPM
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDT
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]P
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	D[a,h]anthracen
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[a]anthracene
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlordane
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lindane
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dieldrin
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	[D] Acetone
12	0.00E+00	1.97E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+00	92.92%	Chloroform
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	n-Butyl Alcohol
14	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	5.58E-03	0.00E+00	0.00E+00	5.58E-03	5.58E-03	0.26%	Benzene
15	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00%	1,1,1-TCA
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Methoxychlor
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DDD
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiClDiPhEthylen
19	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00%	Methylene Chlor
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bromoform
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,1-DiClEthane
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Vinylid Chlorid
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriClFluorMetha
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	CFC-113
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Heptachlor
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	7.18E-05	0.00%	MEK
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TetraClEthane
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthene
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DiButyl Phthal
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Phenanthrene
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	ButylBenzPhthal
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	N-NitrosDiPhAmi
33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluorene
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Naphthalene
35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2MeNaphthalene
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3,3'DiClBenzidn
37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Benzidine
38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00%	o-Xylene
39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2-DiClBenzene
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriMeBenze
41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	DBCP
42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cumene
43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Ethyl Benzene
44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	1.05E-03	0.00%	Styrene
45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Bis(2EHx)Adipat
46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2,4-DiMePhenol
47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	1.13E-04	0.00%	p-Xylene
48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-DiClBenzene
49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDB
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	EDC
51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	0.00E+00	0.00E+00	7.18E-03	0.00%	m-Xylene
52	0.00E+00	2.33E-04	0.00E+00	2.33E-04	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	2.33E-04	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.01%	Toluene
53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chlorobenzn
54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-08	0.00E+00	0.00E+00	6.21E-08	0.00%	Phenol
55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Di2-EthHxPhthal
56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Anthracene
57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	1,2,4TriClBenz
58	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	5.18E-06	0.00%	Perc
59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Pyrene
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Dibenzofuran
61	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[g,h,i]perylen
62	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	In[1,2,3-cd]pyr
63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[b]fluoranthen
64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Fluoranthene
65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	B[k]fluoranthen
66	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Acenaphthylene
67	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chrysene
68	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	alphaHexClCycHx
69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	betaHexClCycHx
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HeptachloEpoxid
71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	0.00E+00	5.91E-04	0.00%	Xylenes
72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	p-alphaTetClTol
73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Lead
74	0.00E+00	5.42E-03	0.00E+00	5.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-03	0.26%	Mercury
75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-01	0.00%	Nickel
76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Silver
77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Thallium
78	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Antimony
79	1.42E-01	1.42E-01	0.00E+00	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-01	6.70%	Arsenic
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Barium
81	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Beryllium
82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cadmium
83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Chromium
84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cobalt
85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-03	0.00E+00	0.00E+00	9.06E-03	0.00%	Copper
86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	4.58E-03	0.00%	Vanadium
87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Zinc
88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Selenium
89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	Cr(VI)
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TriMeBenzns
SUM	1.42E-01	2.12E+00	0.00E+00	2.12E+00	0.00E+00	1.41E-02	0.00E+00	4.47E-01	0.00E+00	1.97E+00	2.32E-02	0.00E+00	5.58E-03	2.12E+00		

Acute Risk by Source

SRC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX	%	Source
1	3.25E-04	1.73E-01	0.00E+00	1.73E-01	0.00E+00	8.41E-04	0.00E+00	1.50E-03	0.00E+00	1.72E-01	8.62E-04	0.00E+00	4.86E-04	1.73E-01	8.16%	STKP_L_S
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_S
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	TRUCK_N
4	2.12E-04	2.35E-01	0.00E+00	2.36E-01	0.00E+00	1.15E-03	0.00E+00	1.32E-03	0.00E+00	2.35E-01	1.16E-03	0.00E+00	6.65E-04	2.36E-01	11.13%	STKP_L_N
5	1.89E-02	1.97E-02	0.00E+00	1.97E-02	0.00E+00	6.10E-04	0.00E+00	5.87E-02	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	5.87E-02	0.93%	HAUL_S
6	4.63E-02	9.13E-01	0.00E+00	9.14E-01	0.00E+00	5.66E-03	0.00E+00	1.46E-01	0.00E+00	8.66E-01	8.61E-03	0.00E+00	2.45E-03	9.14E-01	43.11%	HAUL_N
7	1.79E-03	1.85E-03	0.00E+00	1.85E-03	0.00E+00	5.76E-05	0.00E+00	5.56E-03	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	5.56E-03	0.09%	2_1
8	3.49E-07	3.61E-07	0.00E+00	3.61E-07	0.00E+00	1.91E-07	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.98E-07	0.00E+00	0.00E+00	1.51E-06	0.00%	2_2
9	1.18E-02	1.22E-02	0.00E+00	1.22E-02	0.00E+00	3.78E-04	0.00E+00	3.65E-02	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	3.65E-02	0.58%	3
10	1.70E-02	1.83E-01	0.00E+00	1.83E-01	0.00E+00	1.35E-03	0.00E+00	5.33E-02	0.00E+00	1.65E-01	2.43E-03	0.00E+00	4.67E-04	1.83E-01	8.63%	4A
11	1.16E-02	1.24E-01	0.00E+00	1.24E-01	0.00E+00	9.14E-04	0.00E+00	3.62E-02	0.00E+00	1.12E-01	1.66E-03	0.00E+00	3.17E-04	1.24E-01	5.85%	4B
12	1.35E-02	1.45E-01	0.00E+00	1.45E-01	0.00E+00	1.07E-03	0.00E+00	4.24E-02	0.00E+00	1.31E-01	1.93E-03	0.00E+00	3.71E-04	1.45E-01	6.84%	4C
13	7.98E-03	8.57E-02	0.00E+00	8.58E-02	0.00E+00	6.31E-04	0.00E+00	2.50E-02	0.00E+00	7.75E-02	1.14E-03	0.00E+00	2.19E-04	8.58E-02	4.05%	4D
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	5
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_1
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	6_2
17	1.24E-02	2.27E-01	0.00E+00	2.28E-01	0.00E+00	1.44E-03	0.00E+00	3.91E-02	0.00E+00	2.15E-01	2.23E-03	0.00E+00	6.04E-04	2.28E-01	10.75%	7
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	8
19	2.95E-04	3.07E-04	0.00E+00	3.07E-04	0.00E+00	9.55E-06	0.00E+00	9.20E-04	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	9.20E-04	0.01%	1
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_S
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LSD
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	STKP_LND
23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_SD
24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	HAUL_ND
25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	2_1D
26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	3D
27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4AD
28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4BD
29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4CD
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	4DD
31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	7D
32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	OFF_N
33	0.00E+00	2.47E-10	0.00E+00	2.47E-10	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	2.47E-10	1.19E-09	0.00E+00	0.00E+00	1.19E-09	0.00%	B_4
34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	AW_8
35	0.00E+00	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	1.48E-08	0.00E+00	1.48E-08	0.00E+00	0.00E+00	1.48E-08	1.48E-08	0.00%	B_7
36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00%	BENZ_1
SUM	1.42E-01	2.12E+00	0.00E+00	2.12E+00	0.00E+00	1.41E-02	0.00E+00	4.47E-01	0.00E+00	1.97E+00	2.32E-02	0.00E+00	5.58E-03	2.12E+00		

ASCON HRA - Emissions Inventory

Emission Control Strategies and Mitigation Measures

General Assumptions

Parameter	Mitigation Reduction (%)	Sources Affected	References
Watering exposed surfaces and active excavation	61	grading, wind erosion, excavation, concrete breaking, unpaved road dust	Apply water 3x daily: http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html
Apply soil stabilizers to exposed surfaces and Rusmar Foam	80	wind erosion, unpaved road dust	Apply soil stabilizers on inactive areas. SCAQMD mitigation measures examples. Table X1-E.
Use of EPA Tier 3 equipment or higher	variable	On-site offroad equipment	
Use of Model Year 2007 or newer trucks for soil export	variable	On-site onroad trucks	
Pit F Sprung Structure - Activated Carbon Filter (VOC Only)	95	excavation (Pit F only)	
Diesel Particulate Filter (DPM Only)	85	On-site offroad equipment	CARB Level 3 certifieid diesel particulate filter (DPF)