

## **Appendix E**

### **Data Validation Report**

**Data Validation – Ascon Groundwater Samples**  
**May 2006 Pit F Groundwater Samples**

Level II data packages were received in the Geosyntec-Knoxville, TN office in June 2006 for Tier I data validation. The following documents were referenced with regard to performing this data validation, USEPA National Functional Guidelines for Organic Data Review, SW846 EPA Methods 8260B and 8270C, and EPA 9060A. The data review process provides information on the analytical limitations of data based on specified quality control (QC) criteria.

Del Mar Analytical of Irvine, California performed the sample analyses.

The data are discussed by report number and analytical test as follows:

**IPE2208**

<b><u>Client ID</u></b>	<b><u>Laboratory ID</u></b>
HP-10-19'-22'	IPE2208-01
HP-11-19' (soil)	IPE2208-02
HP-11-19'-22'	IPE2208-03
HP-8-13'-16'	IPE2208-04
HP-4-13'-16'	IPE2208-05
TB-1	IPE2208-06
EB-1	IPE2208-07
FB-1	IPE2208-08

Matrix: Groundwater and One (1) soil sample

Samples Collected: 5/23/06

All technical holding times were met with the exception of EPA 8260 analysis for sample HP-11-19'-22', which was received unpreserved and the hold time was missed by one day.

**Method 8260B –**

For sample HP-11-19'-22', which was received unpreserved, the hold time was missed by one day. Due to the missed hold time, ethylbenzene is “J” qualified as estimated (2.2 ug/L J) and all of the remaining compounds are “UJ” qualified as estimated below the detection limit. No other qualifications are applied to the remaining samples. Samples collected from HP-4 and HP-8 were not analyzed.

**Method 8270C –** For samples HP-10-19'-22' and HP-11-19'-22', hexachlorobutadiene, hexachlorocyclopentadiene, and hexachloroethane are UJ qualified as estimated below the reporting limit due to low recoveries in the laboratory control

sample (LCS) and relative percent differences (RPD) for the LCS/LCSD outside of the QC criteria. For samples HP-8-13'-16' and HP-4-13'-16', hexachlorobutadiene is "UJ" qualified as estimated below the detection limit due to a RPD for the LCS/LCSD outside of the QC criteria. No other qualifications are applied to the remaining sample data.

**Method 9060A Mod –**

All data are within the QC criteria and no qualifications to the data are necessary.

**IPE2350**

<b><u>Client ID</u></b>	<b><u>Laboratory ID</u></b>
HP-1-12'-15'	IPE2350-01
HP-7-12'-15'	IPE2350-02
HP-4-13'-16'(2)	IPE2350-03
HP-5-14'-17'	IPE2350-04
HP-8-13'-16'(2)	IPE2350-05
HP-2-13' (soil)	IPE2350-06
HP-2-13'-16'	IPE2350-07
HP-9-13'-16'	IPE2350-08
DUP-1	IPE2350-09
EB-1	IPE2350-10
TB-1	IPE2350-11
HP-9-13	IPE2350-12

Matrix: Groundwater and One (1) soil sample

Samples Collected: 5/24/06

All technical holding times were met.

**Method 8260B –**

For sample HP-4-13'-16'(2), the following compounds were "UJ" qualified as estimated below the reporting limit due to RPD values outside of the QC criteria for the matrix spike/matrix spike duplicate (MS/MSD); bromoform, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, dibromomethane, 2,2-dichloropropane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, and 1,2,3-trichloropropane. Naphthalene was "J" qualified as estimated (40 ug/L J) due to the RPD value outside of the QC criteria for the MS/MSD pair. All of the remaining data are within the QC criteria and no qualifications to the data are necessary.

**Method 8270C –** For samples DUP-1, HP-1-12'-15, HP-7-12'-15', HP-5-14'-17', HP-2-13'-16', and HP-9-13'-16'; hexachlorobutadiene, hexachlorocyclopentadiene, and hexachloroethane are UJ qualified as estimated below the reporting limit due to low recoveries in the laboratory control sample (LCS) and relative percent differences (RPD)

for the LCS/LCSD outside of the QC criteria. No other qualifications are applied to the remaining sample data.

**Method 9060A Mod –**

All data are within the QC criteria and no qualifications to the data are necessary.

**IPE2476**

<b><u>Client ID</u></b>	<b><u>Laboratory ID</u></b>
HP-6-22' (soil)	IPE2476-01
HP-6-21'-24'	IPE2476-02
HP-3-23'-26'	IPE2476-03
HP-12-13'-16'	IPE2476-04
EB-3	IPE2476-05
TB-3	IPE2476-06

Matrix: Groundwater and One (1) soil sample

Samples Collected: 5/25/06

All technical holding times were met.

**Method 8260B –**

All data are within the QC criteria and no qualifications to the data are necessary.

**Method 8270C –** For samples HP-6-21'-24', HP-3-23'-26', and HP-12-13'-16'; hexachlorocyclopentadiene is "UJ" qualified as estimated below the reporting limit due to RPD for the LCS/LCSD outside of the QC criteria. No other qualifications are applied to the remaining sample data.

**Method 9060A Mod –**

All data are within the QC criteria and no qualifications to the data are necessary.

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The data packages were reviewed. The data are acceptable for use as qualified.

Reviewer: Julia K. Caprio  
Geosyntec Consultants  
June 30, 2006