



LABORATORY REPORT

Prepared For: Geosyntec Consultants/Project Navigator - Ascon  
2100 Main Street, Suite 150  
Huntington Beach, CA 92648  
Attention: Mike Reardon

Project: Ascon - Soils  
SB0202/31

Sampled: 05/19/04  
Received: 05/19/04  
Issued: 06/21/04 04:56

NELAP #01108CA CA ELAP #1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.  
This entire report was reviewed and approved for release.*

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 7°C, on ice and with chain of custody documentation.  
HOLDING TIMES: Holding times were met.  
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.  
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.  
COMMENTS: No significant observations were made.  
SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.  
ADDITIONAL INFORMATION: This report is comprised of all analytical results.

LABORATORY ID	CLIENT ID	MATRIX
INE1148-01	PNL-TP04-Stockpile	Soil
INE1148-02	PNL-TP02-Stockpile	Soil
INE1148-03	PNL-TP02-WASTE	Soil
INE1148-04	PNL-TP04-WASTE	Soil

Reviewed By:

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager



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Report Number: INE1148

Sampled: 05/19/04  
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**TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4E20040	500	<b>24000</b>	100	5/20/2004	5/20/2004	
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4E20040	1500	<b>41000</b>	50	5/20/2004	5/20/2004	
<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4E20040	300	<b>11000</b>	10	5/20/2004	5/20/2004	
<b>Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4E20040	600	<b>54000</b>	20	5/20/2004	5/20/2004	

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**EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								<b>RL-4</b>
<b>Reporting Units: mg/kg</b>								
GRO (C6 - C12)	EPA 8015B MOD.	4E20097	10000	ND	2000	5/20/2004	5/21/2004	
<b>DRO/ORO (C13 - C40)</b>	EPA 8015B MOD.	4E20097	10000	<b>22000</b>	2000	5/20/2004	5/21/2004	
<b>EFH (C6 - C40)</b>	EPA 8015B MOD.	4E20097	10000	<b>24000</b>	2000	5/20/2004	5/21/2004	
<i>Surrogate: n-Octacosane (50-125%)</i>				519 %				Z3
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								<b>RL-4</b>
<b>Reporting Units: mg/kg</b>								
GRO (C6 - C12)	EPA 8015B MOD.	4E20097	5000	ND	1000	5/20/2004	5/21/2004	
<b>DRO/ORO (C13 - C40)</b>	EPA 8015B MOD.	4E20097	5000	<b>26000</b>	1000	5/20/2004	5/21/2004	
<b>EFH (C6 - C40)</b>	EPA 8015B MOD.	4E20097	5000	<b>28000</b>	1000	5/20/2004	5/21/2004	
<i>Surrogate: n-Octacosane (50-125%)</i>				679 %				Z3

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
<b>Reporting Units: ug/kg</b>								
Benzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Bromobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromochloromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromodichloromethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Bromoform	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromomethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
n-Butylbenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4E25012	250	<b>690</b>	100	5/25/2004	5/26/2004	
tert-Butylbenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Carbon tetrachloride	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Chlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Chloroethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Chloroform	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Chloromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
2-Chlorotoluene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
4-Chlorotoluene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Dibromochloromethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Dibromomethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,3-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,4-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Dichlorodifluoromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1-Dichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1-Dichloroethene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
cis-1,2-Dichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
trans-1,2-Dichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,3-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
2,2-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
cis-1,3-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
trans-1,3-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
<b>Ethylbenzene</b>	EPA 8260B	4E25012	100	<b>1100</b>	100	5/25/2004	5/26/2004	
Hexachlorobutadiene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4E25012	100	<b>750</b>	100	5/25/2004	5/26/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4E25012	100	<b>690</b>	100	5/25/2004	5/26/2004	
Methylene chloride	EPA 8260B	4E25012	1000	ND	100	5/25/2004	5/26/2004	
<b>Naphthalene</b>	EPA 8260B	4E25012	250	<b>3900</b>	100	5/25/2004	5/26/2004	

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**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil) - cont.</b>								
<b>Reporting Units: ug/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4E25012	100	<b>1400</b>	100	5/25/2004	5/26/2004	
Styrene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Tetrachloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
<b>Toluene</b>	EPA 8260B	4E25012	100	<b>640</b>	100	5/25/2004	5/26/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1,1-Trichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1,2-Trichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Trichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Trichlorofluoromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2,3-Trichloropropane	EPA 8260B	4E25012	500	ND	100	5/25/2004	5/26/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4E25012	100	<b>4700</b>	100	5/25/2004	5/26/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4E25012	100	<b>1300</b>	100	5/25/2004	5/26/2004	
Vinyl chloride	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>o-Xylene</b>	EPA 8260B	4E25012	100	<b>1400</b>	100	5/25/2004	5/26/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4E25012	100	<b>2000</b>	100	5/25/2004	5/26/2004	
<i>Surrogate: Dibromofluoromethane (50-160%)</i>				<i>116 %</i>				
<i>Surrogate: Toluene-d8 (60-160%)</i>				<i>118 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (60-150%)</i>				<i>113 %</i>				

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**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
<b>Reporting Units: ug/kg</b>								
<b>Benzene</b>	EPA 8260B	4E25012	100	<b>170</b>	100	5/25/2004	5/26/2004	
Bromobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromochloromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromodichloromethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Bromoform	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Bromomethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
n-Butylbenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4E25012	250	<b>470</b>	100	5/25/2004	5/26/2004	
tert-Butylbenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Carbon tetrachloride	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Chlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Chloroethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Chloroform	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Chloromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
2-Chlorotoluene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
4-Chlorotoluene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
Dibromochloromethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Dibromomethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,3-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,4-Dichlorobenzene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Dichlorodifluoromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1-Dichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1-Dichloroethene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
cis-1,2-Dichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
trans-1,2-Dichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,2-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,3-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
2,2-Dichloropropane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
cis-1,3-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
trans-1,3-Dichloropropene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
<b>Ethylbenzene</b>	EPA 8260B	4E25012	100	<b>1200</b>	100	5/25/2004	5/26/2004	
Hexachlorobutadiene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4E25012	100	<b>650</b>	100	5/25/2004	5/26/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4E25012	100	<b>530</b>	100	5/25/2004	5/26/2004	
Methylene chloride	EPA 8260B	4E25012	1000	ND	100	5/25/2004	5/26/2004	
<b>Naphthalene</b>	EPA 8260B	4E25012	250	<b>2800</b>	100	5/25/2004	5/26/2004	

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil) - cont.</b>								
<b>Reporting Units: ug/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4E25012	100	<b>970</b>	100	5/25/2004	5/26/2004	
Styrene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Tetrachloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
<b>Toluene</b>	EPA 8260B	4E25012	100	<b>1200</b>	100	5/25/2004	5/26/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,1,1-Trichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
1,1,2-Trichloroethane	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Trichloroethene	EPA 8260B	4E25012	100	ND	100	5/25/2004	5/26/2004	
Trichlorofluoromethane	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
1,2,3-Trichloropropane	EPA 8260B	4E25012	500	ND	100	5/25/2004	5/26/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4E25012	100	<b>3200</b>	100	5/25/2004	5/26/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4E25012	100	<b>990</b>	100	5/25/2004	5/26/2004	
Vinyl chloride	EPA 8260B	4E25012	250	ND	100	5/25/2004	5/26/2004	
<b>o-Xylene</b>	EPA 8260B	4E25012	100	<b>1500</b>	100	5/25/2004	5/26/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4E25012	100	<b>2800</b>	100	5/25/2004	5/26/2004	
<i>Surrogate: Dibromofluoromethane (50-160%)</i>				90 %				
<i>Surrogate: Toluene-d8 (60-160%)</i>				88 %				
<i>Surrogate: 4-Bromofluorobenzene (60-150%)</i>				82 %				

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**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

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<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil)</b>								
<b>Reporting Units: ug/kg</b>								
<b>Benzene</b>	EPA 8260B	4E21020	100	<b>730</b>	100	5/21/2004	5/22/2004	
Bromobenzene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
Bromochloromethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
Bromodichloromethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
Bromoform	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
Bromomethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
n-Butylbenzene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4E21020	250	<b>730</b>	100	5/21/2004	5/22/2004	M2
tert-Butylbenzene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
Carbon tetrachloride	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
Chlorobenzene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
Chloroethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
Chloroform	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
Chloromethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
2-Chlorotoluene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
4-Chlorotoluene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
Dibromochloromethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
1,2-Dibromo-3-chloropropane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
Dibromomethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,2-Dichlorobenzene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
1,3-Dichlorobenzene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
1,4-Dichlorobenzene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
Dichlorodifluoromethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
1,1-Dichloroethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,2-Dichloroethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,1-Dichloroethene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
cis-1,2-Dichloroethene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
trans-1,2-Dichloroethene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,2-Dichloropropane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,3-Dichloropropane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
2,2-Dichloropropane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,1-Dichloropropene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
cis-1,3-Dichloropropene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
trans-1,3-Dichloropropene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
<b>Ethylbenzene</b>	EPA 8260B	4E21020	100	<b>2800</b>	100	5/21/2004	5/22/2004	
Hexachlorobutadiene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
<b>Isopropylbenzene</b>	EPA 8260B	4E21020	100	<b>1200</b>	100	5/21/2004	5/22/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4E21020	100	<b>1400</b>	100	5/21/2004	5/22/2004	M2
Methylene chloride	EPA 8260B	4E21020	1000	ND	100	5/21/2004	5/22/2004	
<b>Naphthalene</b>	EPA 8260B	4E21020	250	<b>3500</b>	100	5/21/2004	5/22/2004	

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 Report Number: INE1148

Sampled: 05/19/04  
 Received: 05/19/04

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil) - cont.</b>								
<b>Reporting Units: ug/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4E21020	100	<b>1700</b>	100	5/21/2004	5/22/2004	
Styrene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
1,1,2,2-Tetrachloroethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
Tetrachloroethene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	M2
<b>Toluene</b>	EPA 8260B	4E21020	100	<b>1900</b>	100	5/21/2004	5/22/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
1,2,4-Trichlorobenzene	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	M2
1,1,1-Trichloroethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
1,1,2-Trichloroethane	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
Trichloroethene	EPA 8260B	4E21020	100	ND	100	5/21/2004	5/22/2004	
Trichlorofluoromethane	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
1,2,3-Trichloropropane	EPA 8260B	4E21020	500	ND	100	5/21/2004	5/22/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4E21020	100	<b>6100</b>	100	5/21/2004	5/22/2004	M2
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4E21020	100	<b>1700</b>	100	5/21/2004	5/22/2004	M2
Vinyl chloride	EPA 8260B	4E21020	250	ND	100	5/21/2004	5/22/2004	
<b>o-Xylene</b>	EPA 8260B	4E21020	100	<b>3100</b>	100	5/21/2004	5/22/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4E21020	100	<b>6400</b>	100	5/21/2004	5/22/2004	
<i>Surrogate: Dibromofluoromethane (50-160%)</i>				86 %				
<i>Surrogate: Toluene-d8 (60-160%)</i>				86 %				
<i>Surrogate: 4-Bromofluorobenzene (60-150%)</i>				90 %				

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### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil)</b>								
<b>Reporting Units: ug/kg</b>								
<b>Benzene</b>	EPA 8260B	4E21020	200	<b>610</b>	200	5/21/2004	5/22/2004	
Bromobenzene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Bromochloromethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Bromodichloromethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Bromoform	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Bromomethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
n-Butylbenzene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4E21020	500	<b>990</b>	200	5/21/2004	5/22/2004	
tert-Butylbenzene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Carbon tetrachloride	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Chlorobenzene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Chloroethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Chloroform	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Chloromethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
2-Chlorotoluene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
4-Chlorotoluene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
Dibromochloromethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Dibromomethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,2-Dichlorobenzene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,3-Dichlorobenzene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,4-Dichlorobenzene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Dichlorodifluoromethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,1-Dichloroethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,2-Dichloroethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,1-Dichloroethene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
cis-1,2-Dichloroethene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
trans-1,2-Dichloroethene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,2-Dichloropropane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,3-Dichloropropane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
2,2-Dichloropropane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,1-Dichloropropene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
cis-1,3-Dichloropropene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
trans-1,3-Dichloropropene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
<b>Ethylbenzene</b>	EPA 8260B	4E21020	200	<b>2900</b>	200	5/21/2004	5/22/2004	
Hexachlorobutadiene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4E21020	200	<b>1400</b>	200	5/21/2004	5/22/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4E21020	200	<b>1200</b>	200	5/21/2004	5/22/2004	
Methylene chloride	EPA 8260B	4E21020	2000	ND	200	5/21/2004	5/22/2004	
<b>Naphthalene</b>	EPA 8260B	4E21020	500	<b>11000</b>	200	5/21/2004	5/22/2004	

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### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil) - cont.</b>								
<b>Reporting Units: ug/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4E21020	200	<b>2800</b>	200	5/21/2004	5/22/2004	
Styrene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Tetrachloroethene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
<b>Toluene</b>	EPA 8260B	4E21020	200	<b>3900</b>	200	5/21/2004	5/22/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,1,1-Trichloroethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
1,1,2-Trichloroethane	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Trichloroethene	EPA 8260B	4E21020	200	ND	200	5/21/2004	5/22/2004	
Trichlorofluoromethane	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
1,2,3-Trichloropropane	EPA 8260B	4E21020	1000	ND	200	5/21/2004	5/22/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4E21020	200	<b>15000</b>	200	5/21/2004	5/22/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4E21020	200	<b>4500</b>	200	5/21/2004	5/22/2004	
Vinyl chloride	EPA 8260B	4E21020	500	ND	200	5/21/2004	5/22/2004	
<b>o-Xylene</b>	EPA 8260B	4E21020	200	<b>4600</b>	200	5/21/2004	5/22/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4E21020	200	<b>7800</b>	200	5/21/2004	5/22/2004	
<i>Surrogate: Dibromofluoromethane (50-160%)</i>				78 %				
<i>Surrogate: Toluene-d8 (60-160%)</i>				72 %				
<i>Surrogate: 4-Bromofluorobenzene (60-150%)</i>				80 %				

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Sampled: 05/19/04  
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### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01RE1 (PNL-TP04-Stockpile - Soil)</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Acenaphthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Acenaphthylene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Aniline	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
Anthracene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzidine	EPA 8270C	4E25044	13000	ND	20	5/25/2004	5/26/2004	
Benzoic acid	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
Benzo(a)anthracene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(b)fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(k)fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(g,h,i)perylene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(a)pyrene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzyl alcohol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroethoxy)methane	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroethyl)ether	EPA 8270C	4E25044	3300	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroisopropyl)ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	C
Bis(2-ethylhexyl)phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Bromophenyl phenyl ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Butyl benzyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chloroaniline	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Chloronaphthalene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chloro-3-methylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Chlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chlorophenyl phenyl ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Chrysene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Dibenz(a,h)anthracene	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
Dibenzofuran	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Di-n-butyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,3-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,4-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,2-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
3,3-Dichlorobenzidine	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
2,4-Dichlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Diethyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,4-Dimethylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Dimethyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4,6-Dinitro-2-methylphenol	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
2,4-Dinitrophenol	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
2,4-Dinitrotoluene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,6-Dinitrotoluene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Di-n-octyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	

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Sampled: 05/19/04  
Received: 05/19/04

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01RE1 (PNL-TP04-Stockpile - Soil) - cont.</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Fluorene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Hexachlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Hexachlorobutadiene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Hexachlorocyclopentadiene	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
Hexachloroethane	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Indeno(1,2,3-cd)pyrene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Isophorone	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
<b>2-Methylnaphthalene</b>	EPA 8270C	4E25044	6700	<b>18000</b>	20	5/25/2004	5/26/2004	
2-Methylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Methylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Naphthalene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Nitroaniline	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
3-Nitroaniline	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Nitroaniline	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
Nitrobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Nitrophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Nitrophenol	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
N-Nitrosodiphenylamine	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
N-Nitroso-di-n-propylamine	EPA 8270C	4E25044	5000	ND	20	5/25/2004	5/26/2004	
Pentachlorophenol	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
Phenanthrene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Phenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Pyrene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,2,4-Trichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,4,5-Trichlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,4,6-Trichlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	C, L
Surrogate: 2-Fluorophenol (25-120%)				64 %				Z3
Surrogate: Phenol-d6 (30-120%)				65 %				Z3
Surrogate: 2,4,6-Tribromophenol (35-120%)				103 %				Z3
Surrogate: Nitrobenzene-d5 (30-120%)				99 %				Z3
Surrogate: 2-Fluorobiphenyl (35-120%)				66 %				Z3
Surrogate: Terphenyl-d14 (35-155%)				102 %				Z3

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager

Geosyntec Consultants/Project Navigator - Ascon  
 2100 Main Street, Suite 150  
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Project ID: Ascon - Soils  
 SB0202/31  
 Report Number: INE1148

Sampled: 05/19/04  
 Received: 05/19/04

### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-02RE1 (PNL-TP02-Stockpile - Soil)</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Acenaphthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Acenaphthylene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Aniline	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
Anthracene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzidine	EPA 8270C	4E25044	13000	ND	20	5/25/2004	5/26/2004	
Benzoic acid	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
Benzo(a)anthracene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(b)fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(k)fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(g,h,i)perylene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzo(a)pyrene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Benzyl alcohol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroethoxy)methane	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroethyl)ether	EPA 8270C	4E25044	3300	ND	20	5/25/2004	5/26/2004	
Bis(2-chloroisopropyl)ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	C
Bis(2-ethylhexyl)phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Bromophenyl phenyl ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Butyl benzyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chloroaniline	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Chloronaphthalene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chloro-3-methylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2-Chlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4-Chlorophenyl phenyl ether	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Chrysene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Dibenz(a,h)anthracene	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
Dibenzofuran	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Di-n-butyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,3-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,4-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
1,2-Dichlorobenzene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
3,3-Dichlorobenzidine	EPA 8270C	4E25044	17000	ND	20	5/25/2004	5/26/2004	
2,4-Dichlorophenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Diethyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,4-Dimethylphenol	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Dimethyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
4,6-Dinitro-2-methylphenol	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
2,4-Dinitrophenol	EPA 8270C	4E25044	8300	ND	20	5/25/2004	5/26/2004	
2,4-Dinitrotoluene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
2,6-Dinitrotoluene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Di-n-octyl phthalate	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	
Fluoranthene	EPA 8270C	4E25044	6700	ND	20	5/25/2004	5/26/2004	

**Del Mar Analytical, Irvine**  
 Amanda Cordova  
 Project Manager



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SB0202/31
Report Number: INE1148

Sampled: 05/19/04
Received: 05/19/04

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Table with columns: Analyte, Method, Batch, Reporting Limit, Sample Result, Dilution Factor, Date Extracted, Date Analyzed, Data Qualifiers. Includes sample ID: INE1148-02RE1 (PNL-TP02-Stockpile - Soil) - cont. and various chemical analytes like Fluorene, Hexachlorobenzene, etc.

Del Mar Analytical, Irvine
Amanda Cordova
Project Manager



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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil)</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Acenaphthene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Acenaphthylene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Aniline	EPA 8270C	4E20036	16000	ND	37.5	5/20/2004	5/21/2004	
Anthracene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzidine	EPA 8270C	4E20036	25000	ND	37.5	5/20/2004	5/21/2004	
Benzoic acid	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
Benzo(a)anthracene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzo(b)fluoranthene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzo(k)fluoranthene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzo(g,h,i)perylene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzo(a)pyrene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Benzyl alcohol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Bis(2-chloroethoxy)methane	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Bis(2-chloroethyl)ether	EPA 8270C	4E20036	6300	ND	37.5	5/20/2004	5/21/2004	
Bis(2-chloroisopropyl)ether	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Bis(2-ethylhexyl)phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Bromophenyl phenyl ether	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Butyl benzyl phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Chloroaniline	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2-Chloronaphthalene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Chloro-3-methylphenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2-Chlorophenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Chlorophenyl phenyl ether	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Chrysene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Dibenz(a,h)anthracene	EPA 8270C	4E20036	16000	ND	37.5	5/20/2004	5/21/2004	
Dibenzofuran	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Di-n-butyl phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
1,3-Dichlorobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
1,4-Dichlorobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
1,2-Dichlorobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
3,3-Dichlorobenzidine	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
2,4-Dichlorophenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Diethyl phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2,4-Dimethylphenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Dimethyl phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4,6-Dinitro-2-methylphenol	EPA 8270C	4E20036	16000	ND	37.5	5/20/2004	5/21/2004	
2,4-Dinitrophenol	EPA 8270C	4E20036	16000	ND	37.5	5/20/2004	5/21/2004	
2,4-Dinitrotoluene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2,6-Dinitrotoluene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Di-n-octyl phthalate	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Fluoranthene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager





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Project ID: Ascon - Soils  
SB0202/31  
Report Number: INE1148

Sampled: 05/19/04  
Received: 05/19/04

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil) - cont.</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Fluorene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Hexachlorobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Hexachlorobutadiene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Hexachlorocyclopentadiene	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
Hexachloroethane	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Indeno(1,2,3-cd)pyrene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Isophorone	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
<b>2-Methylnaphthalene</b>	EPA 8270C	4E20036	12000	<b>13000</b>	37.5	5/20/2004	5/21/2004	
2-Methylphenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Methylphenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Naphthalene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2-Nitroaniline	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
3-Nitroaniline	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Nitroaniline	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
Nitrobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2-Nitrophenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
4-Nitrophenol	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
N-Nitrosodiphenylamine	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
N-Nitroso-di-n-propylamine	EPA 8270C	4E20036	9400	ND	37.5	5/20/2004	5/21/2004	
Pentachlorophenol	EPA 8270C	4E20036	31000	ND	37.5	5/20/2004	5/21/2004	
Phenanthrene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Phenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Pyrene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
1,2,4-Trichlorobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2,4,5-Trichlorophenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
2,4,6-Trichlorophenol	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	4E20036	12000	ND	37.5	5/20/2004	5/21/2004	
Surrogate: 2-Fluorophenol (25-120%)				62 %				Z3
Surrogate: Phenol-d6 (30-120%)				63 %				Z3
Surrogate: 2,4,6-Tribromophenol (35-120%)				66 %				Z3
Surrogate: Nitrobenzene-d5 (30-120%)				105 %				Z3
Surrogate: 2-Fluorobiphenyl (35-120%)				63 %				Z3
Surrogate: Terphenyl-d14 (35-155%)				98 %				Z3

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Project ID: Ascon - Soils  
 SB0202/31  
 Report Number: INE1148

Sampled: 05/19/04  
 Received: 05/19/04

### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil)</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Acenaphthene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Acenaphthylene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Aniline	EPA 8270C	4E20036	31000	ND	75	5/20/2004	5/25/2004	
Anthracene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzidine	EPA 8270C	4E20036	50000	ND	75	5/20/2004	5/25/2004	
Benzoic acid	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
Benzo(a)anthracene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzo(b)fluoranthene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzo(k)fluoranthene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzo(g,h,i)perylene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzo(a)pyrene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Benzyl alcohol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Bis(2-chloroethoxy)methane	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Bis(2-chloroethyl)ether	EPA 8270C	4E20036	13000	ND	75	5/20/2004	5/25/2004	
Bis(2-chloroisopropyl)ether	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Bis(2-ethylhexyl)phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Bromophenyl phenyl ether	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Butyl benzyl phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Chloroaniline	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2-Chloronaphthalene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Chloro-3-methylphenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2-Chlorophenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Chlorophenyl phenyl ether	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Chrysene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Dibenz(a,h)anthracene	EPA 8270C	4E20036	31000	ND	75	5/20/2004	5/25/2004	
Dibenzofuran	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Di-n-butyl phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
1,3-Dichlorobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
1,4-Dichlorobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
1,2-Dichlorobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
3,3-Dichlorobenzidine	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
2,4-Dichlorophenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Diethyl phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2,4-Dimethylphenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Dimethyl phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4,6-Dinitro-2-methylphenol	EPA 8270C	4E20036	31000	ND	75	5/20/2004	5/25/2004	
2,4-Dinitrophenol	EPA 8270C	4E20036	31000	ND	75	5/20/2004	5/25/2004	
2,4-Dinitrotoluene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2,6-Dinitrotoluene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Di-n-octyl phthalate	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Fluoranthene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	

**Del Mar Analytical, Irvine**  
 Amanda Cordova  
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Project ID: Ascon - Soils  
SB0202/31  
Report Number: INE1148

Sampled: 05/19/04  
Received: 05/19/04

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil) - cont.</b>								<b>RL-2</b>
<b>Reporting Units: ug/kg</b>								
Fluorene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Hexachlorobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Hexachlorobutadiene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Hexachlorocyclopentadiene	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
Hexachloroethane	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Indeno(1,2,3-cd)pyrene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Isophorone	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
<b>2-Methylnaphthalene</b>	EPA 8270C	4E20036	25000	<b>50000</b>	75	5/20/2004	5/25/2004	
2-Methylphenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Methylphenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Naphthalene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2-Nitroaniline	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
3-Nitroaniline	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Nitroaniline	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
Nitrobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2-Nitrophenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
4-Nitrophenol	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
N-Nitrosodiphenylamine	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
N-Nitroso-di-n-propylamine	EPA 8270C	4E20036	19000	ND	75	5/20/2004	5/25/2004	
Pentachlorophenol	EPA 8270C	4E20036	62000	ND	75	5/20/2004	5/25/2004	
Phenanthrene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Phenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
Pyrene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
1,2,4-Trichlorobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2,4,5-Trichlorophenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
2,4,6-Trichlorophenol	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	4E20036	25000	ND	75	5/20/2004	5/25/2004	C
Surrogate: 2-Fluorophenol (25-120%)				62 %				Z3
Surrogate: Phenol-d6 (30-120%)				58 %				Z3
Surrogate: 2,4,6-Tribromophenol (35-120%)				44 %				Z3
Surrogate: Nitrobenzene-d5 (30-120%)				142 %				Z3
Surrogate: 2-Fluorobiphenyl (35-120%)				68 %				Z3
Surrogate: Terphenyl-d14 (35-155%)				104 %				Z3

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 SB0202/31  
 Report Number: INE1148

Sampled: 05/19/04  
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### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								<b>RL-1</b>
<b>Reporting Units: ug/kg</b>								
Aldrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
alpha-BHC	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
beta-BHC	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
delta-BHC	EPA 3545/8081A	4F10096	62	ND	6.25	5/24/2004	6/12/2004	
gamma-BHC (Lindane)	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Chlordane	EPA 3545/8081A	4F10096	310	ND	6.25	5/24/2004	6/12/2004	
4,4'-DDD	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-1
4,4'-DDE	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
4,4'-DDT	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Dieldrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan I	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan II	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan sulfate	EPA 3545/8081A	4F10096	62	ND	6.25	5/24/2004	6/12/2004	C-2
Endrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Endrin aldehyde	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endrin ketone	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Heptachlor	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Heptachlor epoxide	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Methoxychlor	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Toxaphene	EPA 3545/8081A	4F10096	1200	ND	6.25	5/24/2004	6/12/2004	
Surrogate: Tetrachloro- <i>m</i> -xylene (35-115%)				311 %				ZX
Surrogate: Decachlorobiphenyl (45-125%)				40 %				Z3

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### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								<b>RL-1</b>
<b>Reporting Units: ug/kg</b>								
Aldrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
alpha-BHC	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
beta-BHC	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
delta-BHC	EPA 3545/8081A	4F10096	62	ND	6.25	5/24/2004	6/12/2004	
gamma-BHC (Lindane)	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Chlordane	EPA 3545/8081A	4F10096	310	ND	6.25	5/24/2004	6/12/2004	
4,4'-DDD	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-1
4,4'-DDE	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
4,4'-DDT	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Dieldrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan I	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan II	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endosulfan sulfate	EPA 3545/8081A	4F10096	62	ND	6.25	5/24/2004	6/12/2004	C-2
Endrin	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Endrin aldehyde	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Endrin ketone	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Heptachlor	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Heptachlor epoxide	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	
Methoxychlor	EPA 3545/8081A	4F10096	31	ND	6.25	5/24/2004	6/12/2004	C-2
Toxaphene	EPA 3545/8081A	4F10096	1200	ND	6.25	5/24/2004	6/12/2004	
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>				898 %				ZX
<i>Surrogate: Decachlorobiphenyl (45-125%)</i>				24 %				Z3

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## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
<b>Reporting Units: mg/kg</b>								
Antimony	EPA 6010B	4E20090	10	ND	1	5/20/2004	5/21/2004	
Arsenic	EPA 6010B	4E20090	2.0	<b>140</b>	1	5/20/2004	5/21/2004	
Barium	EPA 6010B	4E20090	10	<b>2300</b>	10	5/20/2004	5/26/2004	
Beryllium	EPA 6010B	4E20090	0.50	ND	1	5/20/2004	5/21/2004	
Cadmium	EPA 6010B	4E20090	0.50	<b>1.3</b>	1	5/20/2004	5/21/2004	
Chromium	EPA 6010B	4E20090	1.0	<b>56</b>	1	5/20/2004	5/21/2004	
Cobalt	EPA 6010B	4E20090	1.0	<b>3.9</b>	1	5/20/2004	5/21/2004	
Copper	EPA 6010B	4E20090	2.0	<b>50</b>	1	5/20/2004	5/21/2004	
Lead	EPA 6010B	4E20090	2.0	<b>320</b>	1	5/20/2004	5/21/2004	
Mercury	EPA 7471A	4E20115	0.020	<b>0.32</b>	1	5/20/2004	5/20/2004	
Molybdenum	EPA 6010B	4E20090	2.0	<b>2.3</b>	1	5/20/2004	5/21/2004	
Nickel	EPA 6010B	4E20090	2.0	<b>26</b>	1	5/20/2004	5/21/2004	
Selenium	EPA 6010B	4E20090	2.0	ND	1	5/20/2004	5/21/2004	
Silver	EPA 6010B	4E20090	1.0	ND	1	5/20/2004	5/21/2004	
Thallium	EPA 6010B	4E20090	10	ND	1	5/20/2004	5/21/2004	
Vanadium	EPA 6010B	4E20090	1.0	<b>27</b>	1	5/20/2004	5/21/2004	
Zinc	EPA 6010B	4E20090	5.0	<b>190</b>	1	5/20/2004	5/21/2004	

### Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)

Reporting Units: mg/kg

Antimony	EPA 6010B	4E20090	10	ND	1	5/20/2004	5/21/2004	
Arsenic	EPA 6010B	4E20090	2.0	<b>78</b>	1	5/20/2004	5/21/2004	
Barium	EPA 6010B	4E20090	10	<b>2900</b>	10	5/20/2004	5/26/2004	
Beryllium	EPA 6010B	4E20090	0.50	ND	1	5/20/2004	5/21/2004	
Cadmium	EPA 6010B	4E20090	0.50	ND	1	5/20/2004	5/21/2004	
Chromium	EPA 6010B	4E20090	1.0	<b>180</b>	1	5/20/2004	5/21/2004	
Cobalt	EPA 6010B	4E20090	1.0	<b>3.0</b>	1	5/20/2004	5/21/2004	
Copper	EPA 6010B	4E20090	2.0	<b>23</b>	1	5/20/2004	5/21/2004	
Lead	EPA 6010B	4E20090	2.0	<b>35</b>	1	5/20/2004	5/21/2004	
Mercury	EPA 7471A	4E20115	0.020	<b>0.030</b>	1	5/20/2004	5/20/2004	
Molybdenum	EPA 6010B	4E20090	2.0	<b>2.0</b>	1	5/20/2004	5/21/2004	
Nickel	EPA 6010B	4E20090	2.0	<b>25</b>	1	5/20/2004	5/21/2004	
Selenium	EPA 6010B	4E20090	2.0	ND	1	5/20/2004	5/21/2004	
Silver	EPA 6010B	4E20090	1.0	ND	1	5/20/2004	5/21/2004	
Thallium	EPA 6010B	4E20090	10	ND	1	5/20/2004	5/21/2004	
Vanadium	EPA 6010B	4E20090	1.0	<b>24</b>	1	5/20/2004	5/21/2004	
Zinc	EPA 6010B	4E20090	5.0	<b>50</b>	1	5/20/2004	5/21/2004	

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## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-03 (PNL-TP02-WASTE - Soil)</b>								
<b>Reporting Units: mg/kg</b>								
Antimony	EPA 6010B	4E20076	10	ND	1	5/20/2004	5/21/2004	
<b>Arsenic</b>	EPA 6010B	4E20076	2.0	<b>5.2</b>	1	5/20/2004	5/21/2004	
<b>Barium</b>	EPA 6010B	4E20076	1.0	<b>380</b>	1	5/20/2004	5/21/2004	
Beryllium	EPA 6010B	4E20076	0.50	ND	1	5/20/2004	5/21/2004	
Cadmium	EPA 6010B	4E20076	0.50	ND	1	5/20/2004	5/21/2004	
<b>Chromium</b>	EPA 6010B	4E20076	1.0	<b>14</b>	1	5/20/2004	5/21/2004	
<b>Cobalt</b>	EPA 6010B	4E20076	1.0	<b>3.1</b>	1	5/20/2004	5/21/2004	
<b>Copper</b>	EPA 6010B	4E20076	2.0	<b>14</b>	1	5/20/2004	5/21/2004	
<b>Lead</b>	EPA 6010B	4E20076	2.0	<b>19</b>	1	5/20/2004	5/21/2004	
<b>Mercury</b>	EPA 7471A	4E20115	0.020	<b>0.036</b>	1	5/20/2004	5/20/2004	
<b>Molybdenum</b>	EPA 6010B	4E20076	2.0	<b>2.7</b>	1	5/20/2004	5/21/2004	
<b>Nickel</b>	EPA 6010B	4E20076	2.0	<b>13</b>	1	5/20/2004	5/21/2004	
Selenium	EPA 6010B	4E20076	2.0	ND	1	5/20/2004	5/21/2004	
Silver	EPA 6010B	4E20076	1.0	ND	1	5/20/2004	5/21/2004	
Thallium	EPA 6010B	4E20076	10	ND	1	5/20/2004	5/21/2004	
<b>Vanadium</b>	EPA 6010B	4E20076	1.0	<b>20</b>	1	5/20/2004	5/21/2004	
<b>Zinc</b>	EPA 6010B	4E20076	5.0	<b>80</b>	1	5/20/2004	5/21/2004	

### Sample ID: INE1148-04 (PNL-TP04-WASTE - Soil)

Reporting Units: mg/kg

Antimony	EPA 6010B	4E20076	10	ND	1	5/20/2004	5/21/2004	
<b>Arsenic</b>	EPA 6010B	4E20076	2.0	<b>52</b>	1	5/20/2004	5/21/2004	
<b>Barium</b>	EPA 6010B	4E20076	1.0	<b>1500</b>	1	5/20/2004	5/21/2004	
Beryllium	EPA 6010B	4E20076	0.50	ND	1	5/20/2004	5/21/2004	
<b>Cadmium</b>	EPA 6010B	4E20076	0.50	<b>1.3</b>	1	5/20/2004	5/21/2004	
<b>Chromium</b>	EPA 6010B	4E20076	1.0	<b>57</b>	1	5/20/2004	5/21/2004	
<b>Cobalt</b>	EPA 6010B	4E20076	1.0	<b>1.8</b>	1	5/20/2004	5/21/2004	
<b>Copper</b>	EPA 6010B	4E20076	2.0	<b>18</b>	1	5/20/2004	5/21/2004	
<b>Lead</b>	EPA 6010B	4E20076	2.0	<b>140</b>	1	5/20/2004	5/21/2004	
<b>Mercury</b>	EPA 7471A	4E20115	0.020	<b>0.29</b>	1	5/20/2004	5/20/2004	
Molybdenum	EPA 6010B	4E20076	2.0	ND	1	5/20/2004	5/21/2004	
<b>Nickel</b>	EPA 6010B	4E20076	2.0	<b>13</b>	1	5/20/2004	5/21/2004	
Selenium	EPA 6010B	4E20076	2.0	ND	1	5/20/2004	5/21/2004	
Silver	EPA 6010B	4E20076	1.0	ND	1	5/20/2004	5/21/2004	
Thallium	EPA 6010B	4E20076	10	ND	1	5/20/2004	5/21/2004	
<b>Vanadium</b>	EPA 6010B	4E20076	1.0	<b>13</b>	1	5/20/2004	5/21/2004	
<b>Zinc</b>	EPA 6010B	4E20076	5.0	<b>48</b>	1	5/20/2004	5/21/2004	

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**ORGANIC LEAD BY GFAA (HML 939-M)**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
Reporting Units: ug/kg								
Organic Lead	HML 939-M	4F01072	1200	4700	50	6/1/2004	6/3/2004	
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
Reporting Units: ug/kg								
Organic Lead	HML 939-M	4F01072	120	170	5	6/1/2004	6/2/2004	

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
Reporting Units: mg/kg								
Chromium VI	EPA 7199	4E24056	0.20	ND	1	5/24/2004	5/24/2004	
Oil & Grease	EPA 413.2 MOD.	4E24068	500	<b>27000</b>	100	5/24/2004	5/24/2004	
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
Reporting Units: N/A								
Ignitability	SW846 7.1.2	4E21107	NA	Not Ignitable	1	5/21/2004	5/21/2004	
Reactivity with water	SW846 7.3.2.1	4E21110	1.0	ND	1	5/21/2004	5/21/2004	
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								
Reporting Units: pH Units								
pH	EPA 9045C	4E20057	NA	<b>8.60</b>	1	5/20/2004	5/20/2004	
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
Reporting Units: mg/kg								
Chromium VI	EPA 7199	4E24056	0.20	ND	1	5/24/2004	5/24/2004	
Oil & Grease	EPA 413.2 MOD.	4E24068	750	<b>32000</b>	150	5/24/2004	5/24/2004	
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
Reporting Units: N/A								
Ignitability	SW846 7.1.2	4E21107	NA	Not Ignitable	1	5/21/2004	5/21/2004	
Reactivity with water	SW846 7.3.2.1	4E21110	1.0	ND	1	5/21/2004	5/21/2004	
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								
Reporting Units: pH Units								
pH	EPA 9045C	4E20057	NA	<b>9.30</b>	1	5/20/2004	5/20/2004	

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Sampled: 05/19/04  
Received: 05/19/04

**Polychlorinated Biphenyls (as Aroclors) by EPA Method 8082**

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INE1148-01 (PNL-TP04-Stockpile - Soil)</b>								<b>C-06, R-05</b>
<b>Reporting Units: ug/kg</b>								
PCB-1016	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1221	EPA 8082	4E24018	8000	ND	100	5/24/2004	5/26/2004	
PCB-1232	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1242	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1248	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1254	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1260	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1268	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
<i>Surrogate: Tetrachloro-m-xylene (23-151%)</i>				202 %				S08
<i>Surrogate: Decachlorobiphenyl (26-142%)</i>				1090 %				S08
<b>Sample ID: INE1148-02 (PNL-TP02-Stockpile - Soil)</b>								<b>C-06, R-05</b>
<b>Reporting Units: ug/kg</b>								
PCB-1016	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1221	EPA 8082	4E24018	8000	ND	100	5/24/2004	5/26/2004	
PCB-1232	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1242	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1248	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1254	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1260	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
PCB-1268	EPA 8082	4E24018	2000	ND	100	5/24/2004	5/26/2004	
<i>Surrogate: Tetrachloro-m-xylene (23-151%)</i>				194 %				S08
<i>Surrogate: Decachlorobiphenyl (26-142%)</i>				964 %				S08

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**SHORT HOLD TIME DETAIL REPORT**

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: PNL-TP04-Stockpile (INE1148-01) - Soil</b>					
EPA 9045C	1	05/19/2004 10:35	05/19/2004 16:20	05/20/2004 07:00	05/20/2004 09:00
<b>Sample ID: PNL-TP02-Stockpile (INE1148-02) - Soil</b>					
EPA 9045C	1	05/19/2004 12:20	05/19/2004 16:20	05/20/2004 07:00	05/20/2004 09:00

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METHOD BLANK/QC DATA

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20040 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/20/04 (4E20040-BLK1)</b>										
Total Recoverable Hydrocarbons	ND	5.0	mg/kg							
<b>LCS Analyzed: 05/20/04 (4E20040-BS1)</b>										
Total Recoverable Hydrocarbons	16.1	5.0	mg/kg	20.0		80	55-130			
<b>Matrix Spike Analyzed: 05/20/04 (4E20040-MS1)</b>										
Total Recoverable Hydrocarbons	57.1	5.0	mg/kg	20.0	29	140	35-130			MI
<b>Matrix Spike Dup Analyzed: 05/20/04 (4E20040-MSD1)</b>										
Total Recoverable Hydrocarbons	42.8	5.0	mg/kg	20.0	29	69	35-130	29	25	R-3

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## METHOD BLANK/QC DATA

### EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20097 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/20/04 (4E20097-BLK1)</b>										
GRO (C6 - C12)	ND	5.0	mg/kg							
DRO/ORO (C13 - C40)	ND	5.0	mg/kg							
EFH (C6 - C40)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	5.09		mg/kg	6.67		76	50-125			
<b>LCS Analyzed: 05/20/04 (4E20097-BS1)</b>										
EFH (C6 - C40)	25.0	5.0	mg/kg	33.3		75	45-115			
Surrogate: n-Octacosane	5.16		mg/kg	6.67		77	50-125			
<b>Matrix Spike Analyzed: 05/20/04 (4E20097-MS1)</b>					<b>Source: INE1154-04</b>					
EFH (C6 - C40)	26.8	5.0	mg/kg	33.3	ND	80	35-115			
Surrogate: n-Octacosane	5.44		mg/kg	6.67		82	50-125			
<b>Matrix Spike Dup Analyzed: 05/20/04 (4E20097-MSD1)</b>					<b>Source: INE1154-04</b>					
EFH (C6 - C40)	28.7	5.0	mg/kg	33.3	ND	86	35-115	7	30	
Surrogate: n-Octacosane	5.49		mg/kg	6.67		82	50-125			

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### METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Blank Analyzed: 05/22/04 (4E21020-BLK1)</b>										
Benzene	ND	100	ug/kg							
Bromobenzene	ND	250	ug/kg							
Bromochloromethane	ND	250	ug/kg							
Bromodichloromethane	ND	100	ug/kg							
Bromoform	ND	250	ug/kg							
Bromomethane	ND	250	ug/kg							
n-Butylbenzene	ND	250	ug/kg							
sec-Butylbenzene	ND	250	ug/kg							
tert-Butylbenzene	ND	250	ug/kg							
Carbon tetrachloride	ND	250	ug/kg							
Chlorobenzene	ND	100	ug/kg							
Chloroethane	ND	250	ug/kg							
Chloroform	ND	100	ug/kg							
Chloromethane	ND	250	ug/kg							
2-Chlorotoluene	ND	250	ug/kg							
4-Chlorotoluene	ND	250	ug/kg							
Dibromochloromethane	ND	100	ug/kg							
1,2-Dibromo-3-chloropropane	ND	250	ug/kg							
1,2-Dibromoethane (EDB)	ND	100	ug/kg							
Dibromomethane	ND	100	ug/kg							
1,2-Dichlorobenzene	ND	100	ug/kg							
1,3-Dichlorobenzene	ND	100	ug/kg							
1,4-Dichlorobenzene	ND	100	ug/kg							
Dichlorodifluoromethane	ND	250	ug/kg							
1,1-Dichloroethane	ND	100	ug/kg							
1,2-Dichloroethane	ND	100	ug/kg							
1,1-Dichloroethene	ND	250	ug/kg							
cis-1,2-Dichloroethene	ND	100	ug/kg							
trans-1,2-Dichloroethene	ND	100	ug/kg							
1,2-Dichloropropane	ND	100	ug/kg							
1,3-Dichloropropane	ND	100	ug/kg							
2,2-Dichloropropane	ND	100	ug/kg							
1,1-Dichloropropene	ND	100	ug/kg							
cis-1,3-Dichloropropene	ND	100	ug/kg							
trans-1,3-Dichloropropene	ND	100	ug/kg							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Blank Analyzed: 05/22/04 (4E21020-BLK1)</b>										
Ethylbenzene	ND	100	ug/kg							
Hexachlorobutadiene	ND	250	ug/kg							
Isopropylbenzene	ND	100	ug/kg							
p-Isopropyltoluene	ND	100	ug/kg							
Methylene chloride	ND	1000	ug/kg							
Naphthalene	ND	250	ug/kg							
n-Propylbenzene	ND	100	ug/kg							
Styrene	ND	100	ug/kg							
1,1,1,2-Tetrachloroethane	ND	250	ug/kg							
1,1,2,2-Tetrachloroethane	ND	100	ug/kg							
Tetrachloroethene	ND	100	ug/kg							
Toluene	ND	100	ug/kg							
1,2,3-Trichlorobenzene	ND	250	ug/kg							
1,2,4-Trichlorobenzene	ND	250	ug/kg							
1,1,1-Trichloroethane	ND	100	ug/kg							
1,1,2-Trichloroethane	ND	100	ug/kg							
Trichloroethene	ND	100	ug/kg							
Trichlorofluoromethane	ND	250	ug/kg							
1,2,3-Trichloropropane	ND	500	ug/kg							
1,2,4-Trimethylbenzene	ND	100	ug/kg							
1,3,5-Trimethylbenzene	ND	100	ug/kg							
Vinyl chloride	ND	250	ug/kg							
o-Xylene	ND	100	ug/kg							
m,p-Xylenes	ND	100	ug/kg							
Surrogate: Dibromofluoromethane	2730		ug/kg	2500		109	50-160			
Surrogate: Toluene-d8	2740		ug/kg	2500		110	60-160			
Surrogate: 4-Bromofluorobenzene	2720		ug/kg	2500		109	60-150			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>LCS Analyzed: 05/22/04 (4E21020-BS1)</b>										
Benzene	2700	100	ug/kg	2500		108	75-125			
Bromobenzene	2640	250	ug/kg	2500		106	80-120			
Bromochloromethane	2780	250	ug/kg	2500		111	65-140			
Bromodichloromethane	2690	100	ug/kg	2500		108	70-140			
Bromoform	2570	250	ug/kg	2500		103	60-130			
Bromomethane	2130	250	ug/kg	2500		85	35-140			
n-Butylbenzene	2640	250	ug/kg	2500		106	80-130			
sec-Butylbenzene	2570	250	ug/kg	2500		103	75-125			
tert-Butylbenzene	2730	250	ug/kg	2500		109	80-125			
Carbon tetrachloride	2580	250	ug/kg	2500		103	70-140			
Chlorobenzene	2600	100	ug/kg	2500		104	80-125			
Chloroethane	2200	250	ug/kg	2500		88	40-145			
Chloroform	2650	100	ug/kg	2500		106	75-130			
Chloromethane	2140	250	ug/kg	2500		86	30-145			
2-Chlorotoluene	2680	250	ug/kg	2500		107	75-125			
4-Chlorotoluene	2720	250	ug/kg	2500		109	80-125			
Dibromochloromethane	2500	100	ug/kg	2500		100	65-145			
1,2-Dibromo-3-chloropropane	2640	250	ug/kg	2500		106	45-135			
1,2-Dibromoethane (EDB)	2620	100	ug/kg	2500		105	75-130			
Dibromomethane	2620	100	ug/kg	2500		105	75-135			
1,2-Dichlorobenzene	2650	100	ug/kg	2500		106	80-120			
1,3-Dichlorobenzene	2570	100	ug/kg	2500		103	80-120			
1,4-Dichlorobenzene	2650	100	ug/kg	2500		106	80-120			
Dichlorodifluoromethane	1880	250	ug/kg	2500		75	10-160			
1,1-Dichloroethane	2640	100	ug/kg	2500		106	70-135			
1,2-Dichloroethane	2560	100	ug/kg	2500		102	60-150			
1,1-Dichloroethene	2720	250	ug/kg	2500		109	80-145			
cis-1,2-Dichloroethene	2700	100	ug/kg	2500		108	70-135			
trans-1,2-Dichloroethene	2740	100	ug/kg	2500		110	70-135			
1,2-Dichloropropane	2660	100	ug/kg	2500		106	75-125			
1,3-Dichloropropane	2520	100	ug/kg	2500		101	75-130			
2,2-Dichloropropane	2970	100	ug/kg	2500		119	70-150			
1,1-Dichloropropene	2660	100	ug/kg	2500		106	75-130			
cis-1,3-Dichloropropene	2720	100	ug/kg	2500		109	75-130			
trans-1,3-Dichloropropene	2820	100	ug/kg	2500		113	75-135			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>LCS Analyzed: 05/22/04 (4E21020-BS1)</b>										
Ethylbenzene	2720	100	ug/kg	2500		109	80-120			
Hexachlorobutadiene	2570	250	ug/kg	2500		103	75-140			
Isopropylbenzene	2810	100	ug/kg	2500		112	75-125			
p-Isopropyltoluene	2580	100	ug/kg	2500		103	80-125			
Methylene chloride	2700	1000	ug/kg	2500		108	60-145			
Naphthalene	2700	250	ug/kg	2500		108	50-145			
n-Propylbenzene	2800	100	ug/kg	2500		112	75-130			
Styrene	2760	100	ug/kg	2500		110	80-135			
1,1,1,2-Tetrachloroethane	2570	250	ug/kg	2500		103	70-145			
1,1,2,2-Tetrachloroethane	2530	100	ug/kg	2500		101	60-135			
Tetrachloroethene	2580	100	ug/kg	2500		103	80-125			
Toluene	2710	100	ug/kg	2500		108	80-125			
1,2,3-Trichlorobenzene	2630	250	ug/kg	2500		105	65-135			
1,2,4-Trichlorobenzene	2700	250	ug/kg	2500		108	70-140			
1,1,1-Trichloroethane	2660	100	ug/kg	2500		106	75-140			
1,1,2-Trichloroethane	2690	100	ug/kg	2500		108	70-130			
Trichloroethene	2770	100	ug/kg	2500		111	80-130			
Trichlorofluoromethane	2450	250	ug/kg	2500		98	55-145			
1,2,3-Trichloropropane	2600	500	ug/kg	2500		104	60-130			
1,2,4-Trimethylbenzene	2720	100	ug/kg	2500		109	80-125			
1,3,5-Trimethylbenzene	2820	100	ug/kg	2500		113	80-125			
Vinyl chloride	808	250	ug/kg	2500		32	10-120			
o-Xylene	2610	100	ug/kg	2500		104	80-125			
m,p-Xylenes	5260	100	ug/kg	5000		105	80-120			
Surrogate: Dibromofluoromethane	2610		ug/kg	2500		104	50-160			
Surrogate: Toluene-d8	2770		ug/kg	2500		111	60-160			
Surrogate: 4-Bromofluorobenzene	2670		ug/kg	2500		107	60-150			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>LCS Dup Analyzed: 05/22/04 (4E21020-BSD1)</b>										
Benzene	2770	100	ug/kg	2500		111	75-125	3	20	
Bromobenzene	2700	250	ug/kg	2500		108	80-120	2	20	
Bromochloromethane	2870	250	ug/kg	2500		115	65-140	3	20	
Bromodichloromethane	2730	100	ug/kg	2500		109	70-140	1	20	
Bromoform	2650	250	ug/kg	2500		106	60-130	3	25	
Bromomethane	2080	250	ug/kg	2500		83	35-140	2	30	
n-Butylbenzene	2690	250	ug/kg	2500		108	80-130	2	20	
sec-Butylbenzene	2670	250	ug/kg	2500		107	75-125	4	20	
tert-Butylbenzene	2790	250	ug/kg	2500		112	80-125	2	20	
Carbon tetrachloride	2600	250	ug/kg	2500		104	70-140	1	20	
Chlorobenzene	2670	100	ug/kg	2500		107	80-125	3	20	
Chloroethane	2170	250	ug/kg	2500		87	40-145	1	25	
Chloroform	2720	100	ug/kg	2500		109	75-130	3	20	
Chloromethane	2140	250	ug/kg	2500		86	30-145	0	25	
2-Chlorotoluene	2750	250	ug/kg	2500		110	75-125	3	20	
4-Chlorotoluene	2780	250	ug/kg	2500		111	80-125	2	20	
Dibromochloromethane	2600	100	ug/kg	2500		104	65-145	4	20	
1,2-Dibromo-3-chloropropane	2680	250	ug/kg	2500		107	45-135	2	25	
1,2-Dibromoethane (EDB)	2710	100	ug/kg	2500		108	75-130	3	20	
Dibromomethane	2700	100	ug/kg	2500		108	75-135	3	20	
1,2-Dichlorobenzene	2750	100	ug/kg	2500		110	80-120	4	20	
1,3-Dichlorobenzene	2660	100	ug/kg	2500		106	80-120	3	20	
1,4-Dichlorobenzene	2730	100	ug/kg	2500		109	80-120	3	20	
Dichlorodifluoromethane	1830	250	ug/kg	2500		73	10-160	3	30	
1,1-Dichloroethane	2700	100	ug/kg	2500		108	70-135	2	20	
1,2-Dichloroethane	2650	100	ug/kg	2500		106	60-150	3	25	
1,1-Dichloroethene	2770	250	ug/kg	2500		111	80-145	2	20	
cis-1,2-Dichloroethene	2800	100	ug/kg	2500		112	70-135	4	20	
trans-1,2-Dichloroethene	2820	100	ug/kg	2500		113	70-135	3	20	
1,2-Dichloropropane	2760	100	ug/kg	2500		110	75-125	4	20	
1,3-Dichloropropane	2590	100	ug/kg	2500		104	75-130	3	20	
2,2-Dichloropropane	2990	100	ug/kg	2500		120	70-150	1	20	
1,1-Dichloropropene	2700	100	ug/kg	2500		108	75-130	1	20	
cis-1,3-Dichloropropene	2800	100	ug/kg	2500		112	75-130	3	20	
trans-1,3-Dichloropropene	2930	100	ug/kg	2500		117	75-135	4	20	

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Project Manager



Geosyntec Consultants/Project Navigator - Ascon  
2100 Main Street, Suite 150  
Huntington Beach, CA 92648  
Attention: Mike Reardon

Project ID: Ascon - Soils  
SB0202/31  
Report Number: INE1148

Sampled: 05/19/04  
Received: 05/19/04

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>LCS Dup Analyzed: 05/22/04 (4E21020-BSD1)</b>										
Ethylbenzene	2790	100	ug/kg	2500		112	80-120	3	20	
Hexachlorobutadiene	2640	250	ug/kg	2500		106	75-140	3	20	
Isopropylbenzene	2860	100	ug/kg	2500		114	75-125	2	20	
p-Isopropyltoluene	2660	100	ug/kg	2500		106	80-125	3	20	
Methylene chloride	2740	1000	ug/kg	2500		110	60-145	1	20	
Naphthalene	2830	250	ug/kg	2500		113	50-145	5	25	
n-Propylbenzene	2860	100	ug/kg	2500		114	75-130	2	20	
Styrene	2960	100	ug/kg	2500		118	80-135	7	20	
1,1,1,2-Tetrachloroethane	2690	250	ug/kg	2500		108	70-145	5	20	
1,1,2,2-Tetrachloroethane	2570	100	ug/kg	2500		103	60-135	2	25	
Tetrachloroethene	2630	100	ug/kg	2500		105	80-125	2	20	
Toluene	2790	100	ug/kg	2500		112	80-125	3	20	
1,2,3-Trichlorobenzene	2740	250	ug/kg	2500		110	65-135	4	20	
1,2,4-Trichlorobenzene	2800	250	ug/kg	2500		112	70-140	4	20	
1,1,1-Trichloroethane	2710	100	ug/kg	2500		108	75-140	2	20	
1,1,2-Trichloroethane	2800	100	ug/kg	2500		112	70-130	4	20	
Trichloroethene	2830	100	ug/kg	2500		113	80-130	2	20	
Trichlorofluoromethane	2440	250	ug/kg	2500		98	55-145	0	25	
1,2,3-Trichloropropane	2660	500	ug/kg	2500		106	60-130	2	20	
1,2,4-Trimethylbenzene	2780	100	ug/kg	2500		111	80-125	2	20	
1,3,5-Trimethylbenzene	2870	100	ug/kg	2500		115	80-125	2	20	
Vinyl chloride	794	250	ug/kg	2500		32	10-120	2	30	
o-Xylene	2690	100	ug/kg	2500		108	80-125	3	20	
m,p-Xylenes	5440	100	ug/kg	5000		109	80-120	3	20	
Surrogate: Dibromofluoromethane	2650		ug/kg	2500		106	50-160			
Surrogate: Toluene-d8	2830		ug/kg	2500		113	60-160			
Surrogate: 4-Bromofluorobenzene	2710		ug/kg	2500		108	60-150			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Matrix Spike Analyzed: 05/22/04 (4E21020-MS1)</b>					<b>Source: INE1148-03</b>					
Benzene	3140	100	ug/kg	2500	730	96	60-140			
Bromobenzene	1440	250	ug/kg	2500	ND	58	65-130			M2
Bromochloromethane	2120	250	ug/kg	2500	ND	85	60-145			
Bromodichloromethane	1540	100	ug/kg	2500	ND	62	65-150			M2
Bromoform	1310	250	ug/kg	2500	ND	52	55-150			M2
Bromomethane	562	250	ug/kg	2500	ND	22	30-160			M2
n-Butylbenzene	2280	250	ug/kg	2500	ND	91	60-150			
sec-Butylbenzene	1840	250	ug/kg	2500	730	44	65-145			M2
tert-Butylbenzene	1090	250	ug/kg	2500	ND	44	60-150			M2
Carbon tetrachloride	1010	250	ug/kg	2500	ND	40	70-140			M2
Chlorobenzene	1740	100	ug/kg	2500	ND	70	70-140			
Chloroethane	1520	250	ug/kg	2500	ND	61	30-170			
Chloroform	1960	100	ug/kg	2500	ND	78	60-140			
Chloromethane	1450	250	ug/kg	2500	ND	58	30-160			
2-Chlorotoluene	1860	250	ug/kg	2500	ND	74	60-140			
4-Chlorotoluene	1610	250	ug/kg	2500	ND	64	70-135			M2
Dibromochloromethane	1360	100	ug/kg	2500	ND	54	60-150			M2
1,2-Dibromo-3-chloropropane	2230	250	ug/kg	2500	ND	89	40-150			
1,2-Dibromoethane (EDB)	1800	100	ug/kg	2500	ND	72	65-140			
Dibromomethane	2130	100	ug/kg	2500	ND	85	65-140			
1,2-Dichlorobenzene	1330	100	ug/kg	2500	ND	53	70-130			M2
1,3-Dichlorobenzene	1180	100	ug/kg	2500	ND	47	60-155			M2
1,4-Dichlorobenzene	1240	100	ug/kg	2500	ND	50	55-150			M2
Dichlorodifluoromethane	758	250	ug/kg	2500	ND	30	10-160			
1,1-Dichloroethane	1970	100	ug/kg	2500	ND	79	60-155			
1,2-Dichloroethane	2110	100	ug/kg	2500	ND	84	55-150			
1,1-Dichloroethene	1930	250	ug/kg	2500	ND	77	60-165			
cis-1,2-Dichloroethene	1960	100	ug/kg	2500	ND	78	60-135			
trans-1,2-Dichloroethene	1800	100	ug/kg	2500	ND	72	50-155			
1,2-Dichloropropane	1890	100	ug/kg	2500	ND	76	65-135			
1,3-Dichloropropane	1860	100	ug/kg	2500	ND	74	65-135			
2,2-Dichloropropane	1600	100	ug/kg	2500	ND	64	60-150			
1,1-Dichloropropene	1560	100	ug/kg	2500	ND	62	60-140			
cis-1,3-Dichloropropene	1330	100	ug/kg	2500	ND	53	60-135			M2
trans-1,3-Dichloropropene	1540	100	ug/kg	2500	ND	62	55-155			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Matrix Spike Analyzed: 05/22/04 (4E21020-MS1)</b>					<b>Source: INE1148-03</b>					
Ethylbenzene	5580	100	ug/kg	2500	2800	111	60-140			
Hexachlorobutadiene	721	250	ug/kg	2500	ND	29	65-145			M2
Isopropylbenzene	2700	100	ug/kg	2500	1200	60	60-140			
p-Isopropyltoluene	2580	100	ug/kg	2500	1400	47	60-145			M2
Methylene chloride	1910	1000	ug/kg	2500	ND	76	50-155			
Naphthalene	5860	250	ug/kg	2500	3500	94	30-165			
n-Propylbenzene	3280	100	ug/kg	2500	1700	63	60-145			
Styrene	1550	100	ug/kg	2500	ND	62	60-145			
1,1,1,2-Tetrachloroethane	1360	250	ug/kg	2500	ND	54	65-145			M2
1,1,2,2-Tetrachloroethane	261	100	ug/kg	2500	ND	10	60-150			M2
Tetrachloroethene	1150	100	ug/kg	2500	ND	46	65-145			M2
Toluene	4730	100	ug/kg	2500	1900	113	60-145			
1,2,3-Trichlorobenzene	1080	250	ug/kg	2500	ND	43	45-145			M2
1,2,4-Trichlorobenzene	948	250	ug/kg	2500	ND	38	60-140			M2
1,1,1-Trichloroethane	1680	100	ug/kg	2500	ND	67	65-140			
1,1,2-Trichloroethane	2420	100	ug/kg	2500	ND	97	60-140			
Trichloroethene	2830	100	ug/kg	2500	ND	113	70-150			
Trichlorofluoromethane	1410	250	ug/kg	2500	ND	56	35-165			
1,2,3-Trichloropropane	1910	500	ug/kg	2500	ND	76	50-150			
1,2,4-Trimethylbenzene	8520	100	ug/kg	2500	6100	97	70-135			
1,3,5-Trimethylbenzene	3370	100	ug/kg	2500	1700	67	70-135			M2
Vinyl chloride	1030	250	ug/kg	2500	ND	41	10-120			
o-Xylene	6420	100	ug/kg	2500	3100	133	60-145			
m,p-Xylenes	12500	100	ug/kg	5000	6400	122	60-140			
Surrogate: Dibromofluoromethane	1770		ug/kg	2500		71	50-160			
Surrogate: Toluene-d8	1730		ug/kg	2500		69	60-160			
Surrogate: 4-Bromofluorobenzene	1690		ug/kg	2500		68	60-150			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Matrix Spike Dup Analyzed: 05/22/04 (4E21020-MSD1)</b>					<b>Source: INE1148-03</b>					
Benzene	2860	100	ug/kg	2500	730	85	60-140	9	25	
Bromobenzene	1890	250	ug/kg	2500	ND	76	65-130	27	25	R-3
Bromochloromethane	2240	250	ug/kg	2500	ND	90	60-145	6	25	
Bromodichloromethane	1970	100	ug/kg	2500	ND	79	65-150	25	25	
Bromoform	2070	250	ug/kg	2500	ND	83	55-150	45	30	R-3
Bromomethane	1110	250	ug/kg	2500	ND	44	30-160	66	30	R-3
n-Butylbenzene	2630	250	ug/kg	2500	ND	105	60-150	14	25	
sec-Butylbenzene	2340	250	ug/kg	2500	730	64	65-145	24	25	M2
tert-Butylbenzene	1700	250	ug/kg	2500	ND	68	60-150	44	20	R-3
Carbon tetrachloride	1740	250	ug/kg	2500	ND	70	70-140	53	20	R-3
Chlorobenzene	2110	100	ug/kg	2500	ND	84	70-140	19	25	
Chloroethane	1620	250	ug/kg	2500	ND	65	30-170	6	35	
Chloroform	2050	100	ug/kg	2500	ND	82	60-140	4	25	
Chloromethane	1490	250	ug/kg	2500	ND	60	30-160	3	30	
2-Chlorotoluene	2180	250	ug/kg	2500	ND	87	60-140	16	25	
4-Chlorotoluene	2000	250	ug/kg	2500	ND	80	70-135	22	20	R-3
Dibromochloromethane	2940	100	ug/kg	2500	ND	118	60-150	73	25	R-3
1,2-Dibromo-3-chloropropane	2950	250	ug/kg	2500	ND	118	40-150	28	30	
1,2-Dibromoethane (EDB)	2230	100	ug/kg	2500	ND	89	65-140	21	25	
Dibromomethane	2270	100	ug/kg	2500	ND	91	65-140	6	20	
1,2-Dichlorobenzene	1770	100	ug/kg	2500	ND	71	70-130	28	20	R-3
1,3-Dichlorobenzene	1720	100	ug/kg	2500	ND	69	60-155	37	25	R-3
1,4-Dichlorobenzene	1760	100	ug/kg	2500	ND	70	55-150	35	25	R-3
Dichlorodifluoromethane	852	250	ug/kg	2500	ND	34	10-160	12	35	
1,1-Dichloroethane	2120	100	ug/kg	2500	ND	85	60-155	7	25	
1,2-Dichloroethane	2140	100	ug/kg	2500	ND	86	55-150	1	30	
1,1-Dichloroethene	2070	250	ug/kg	2500	ND	83	60-165	7	25	
cis-1,2-Dichloroethene	2090	100	ug/kg	2500	ND	84	60-135	6	25	
trans-1,2-Dichloroethene	1970	100	ug/kg	2500	ND	79	50-155	9	25	
1,2-Dichloropropane	2230	100	ug/kg	2500	ND	89	65-135	17	20	
1,3-Dichloropropane	2040	100	ug/kg	2500	ND	82	65-135	9	20	
2,2-Dichloropropane	1760	100	ug/kg	2500	ND	70	60-150	10	20	
1,1-Dichloropropene	1790	100	ug/kg	2500	ND	72	60-140	14	20	
cis-1,3-Dichloropropene	1800	100	ug/kg	2500	ND	72	60-135	30	25	R-3
trans-1,3-Dichloropropene	2020	100	ug/kg	2500	ND	81	55-155	27	25	R

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E21020 Extracted: 05/21/04</b>										
<b>Matrix Spike Dup Analyzed: 05/22/04 (4E21020-MSD1)</b>					<b>Source: INE1148-03</b>					
Ethylbenzene	4940	100	ug/kg	2500	2800	86	60-140	12	25	
Hexachlorobutadiene	1360	250	ug/kg	2500	ND	54	65-145	61	25	M2, R-3
Isopropylbenzene	2950	100	ug/kg	2500	1200	70	60-140	9	25	
p-Isopropyltoluene	2890	100	ug/kg	2500	1400	60	60-145	11	25	
Methylene chloride	1950	1000	ug/kg	2500	ND	78	50-155	2	25	
Naphthalene	5200	250	ug/kg	2500	3500	68	30-165	12	30	
n-Propylbenzene	3520	100	ug/kg	2500	1700	73	60-145	7	25	
Styrene	1980	100	ug/kg	2500	ND	79	60-145	24	20	R
1,1,1,2-Tetrachloroethane	2110	250	ug/kg	2500	ND	84	65-145	43	20	R-3
1,1,2,2-Tetrachloroethane	579	100	ug/kg	2500	ND	23	60-150	76	20	M2, R-3
Tetrachloroethene	1590	100	ug/kg	2500	ND	64	65-145	32	25	M2, R-3
Toluene	4180	100	ug/kg	2500	1900	91	60-145	12	25	
1,2,3-Trichlorobenzene	1760	250	ug/kg	2500	ND	70	45-145	48	30	R-3
1,2,4-Trichlorobenzene	1600	250	ug/kg	2500	ND	64	60-140	51	25	R-3
1,1,1-Trichloroethane	1970	100	ug/kg	2500	ND	79	65-140	16	25	
1,1,2-Trichloroethane	2700	100	ug/kg	2500	ND	108	60-140	11	20	
Trichloroethene	3180	100	ug/kg	2500	ND	127	70-150	12	25	
Trichlorofluoromethane	1670	250	ug/kg	2500	ND	67	35-165	17	30	
1,2,3-Trichloropropane	2470	500	ug/kg	2500	ND	99	50-150	26	20	R
1,2,4-Trimethylbenzene	7470	100	ug/kg	2500	6100	55	70-135	13	20	M2
1,3,5-Trimethylbenzene	3350	100	ug/kg	2500	1700	66	70-135	1	25	M2
Vinyl chloride	1270	250	ug/kg	2500	ND	51	10-120	21	35	
o-Xylene	5450	100	ug/kg	2500	3100	94	60-145	16	25	
m,p-Xylenes	10700	100	ug/kg	5000	6400	86	60-140	16	25	
Surrogate: Dibromofluoromethane	1890		ug/kg	2500		76	50-160			
Surrogate: Toluene-d8	1920		ug/kg	2500		77	60-160			
Surrogate: 4-Bromofluorobenzene	2060		ug/kg	2500		82	60-150			

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**METHOD BLANK/QC DATA**

**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Blank Analyzed: 05/25/04 (4E25012-BLK1)</b>										
Benzene	ND	100	ug/kg							
Bromobenzene	ND	250	ug/kg							
Bromochloromethane	ND	250	ug/kg							
Bromodichloromethane	ND	100	ug/kg							
Bromoform	ND	250	ug/kg							
Bromomethane	ND	250	ug/kg							
n-Butylbenzene	ND	250	ug/kg							
sec-Butylbenzene	ND	250	ug/kg							
tert-Butylbenzene	ND	250	ug/kg							
Carbon tetrachloride	ND	250	ug/kg							
Chlorobenzene	ND	100	ug/kg							
Chloroethane	ND	250	ug/kg							
Chloroform	ND	100	ug/kg							
Chloromethane	ND	250	ug/kg							
2-Chlorotoluene	ND	250	ug/kg							
4-Chlorotoluene	ND	250	ug/kg							
Dibromochloromethane	ND	100	ug/kg							
1,2-Dibromo-3-chloropropane	ND	250	ug/kg							
1,2-Dibromoethane (EDB)	ND	100	ug/kg							
Dibromomethane	ND	100	ug/kg							
1,2-Dichlorobenzene	ND	100	ug/kg							
1,3-Dichlorobenzene	ND	100	ug/kg							
1,4-Dichlorobenzene	ND	100	ug/kg							
Dichlorodifluoromethane	ND	250	ug/kg							
1,1-Dichloroethane	ND	100	ug/kg							
1,2-Dichloroethane	ND	100	ug/kg							
1,1-Dichloroethene	ND	250	ug/kg							
cis-1,2-Dichloroethene	ND	100	ug/kg							
trans-1,2-Dichloroethene	ND	100	ug/kg							
1,2-Dichloropropane	ND	100	ug/kg							
1,3-Dichloropropane	ND	100	ug/kg							
2,2-Dichloropropane	ND	100	ug/kg							
1,1-Dichloropropene	ND	100	ug/kg							
cis-1,3-Dichloropropene	ND	100	ug/kg							
trans-1,3-Dichloropropene	ND	100	ug/kg							

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### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Blank Analyzed: 05/25/04 (4E25012-BLK1)</b>										
Ethylbenzene	ND	100	ug/kg							
Hexachlorobutadiene	ND	250	ug/kg							
Isopropylbenzene	ND	100	ug/kg							
p-Isopropyltoluene	ND	100	ug/kg							
Methylene chloride	ND	1000	ug/kg							
Naphthalene	ND	250	ug/kg							
n-Propylbenzene	ND	100	ug/kg							
Styrene	ND	100	ug/kg							
1,1,1,2-Tetrachloroethane	ND	250	ug/kg							
1,1,2,2-Tetrachloroethane	ND	100	ug/kg							
Tetrachloroethene	ND	100	ug/kg							
Toluene	ND	100	ug/kg							
1,2,3-Trichlorobenzene	ND	250	ug/kg							
1,2,4-Trichlorobenzene	ND	250	ug/kg							
1,1,1-Trichloroethane	ND	100	ug/kg							
1,1,2-Trichloroethane	ND	100	ug/kg							
Trichloroethene	ND	100	ug/kg							
Trichlorofluoromethane	ND	250	ug/kg							
1,2,3-Trichloropropane	ND	500	ug/kg							
1,2,4-Trimethylbenzene	ND	100	ug/kg							
1,3,5-Trimethylbenzene	ND	100	ug/kg							
Vinyl chloride	ND	250	ug/kg							
o-Xylene	ND	100	ug/kg							
m,p-Xylenes	ND	100	ug/kg							
Surrogate: Dibromofluoromethane	3020		ug/kg	2500		121	50-160			
Surrogate: Toluene-d8	3150		ug/kg	2500		126	60-160			
Surrogate: 4-Bromofluorobenzene	3150		ug/kg	2500		126	60-150			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>LCS Analyzed: 05/25/04 (4E25012-BS1)</b>										
Benzene	2640	100	ug/kg	2500		106	75-125			
Bromobenzene	2630	250	ug/kg	2500		105	80-120			
Bromochloromethane	2880	250	ug/kg	2500		115	65-140			
Bromodichloromethane	2760	100	ug/kg	2500		110	70-140			
Bromoform	2870	250	ug/kg	2500		115	60-130			
Bromomethane	1640	250	ug/kg	2500		66	35-140			
n-Butylbenzene	2730	250	ug/kg	2500		109	80-130			
sec-Butylbenzene	2620	250	ug/kg	2500		105	75-125			
tert-Butylbenzene	2630	250	ug/kg	2500		105	80-125			
Carbon tetrachloride	2670	250	ug/kg	2500		107	70-140			
Chlorobenzene	2650	100	ug/kg	2500		106	80-125			
Chloroethane	1740	250	ug/kg	2500		70	40-145			
Chloroform	2790	100	ug/kg	2500		112	75-130			
Chloromethane	1670	250	ug/kg	2500		67	30-145			
2-Chlorotoluene	2540	250	ug/kg	2500		102	75-125			
4-Chlorotoluene	2630	250	ug/kg	2500		105	80-125			
Dibromochloromethane	2740	100	ug/kg	2500		110	65-145			
1,2-Dibromo-3-chloropropane	2640	250	ug/kg	2500		106	45-135			
1,2-Dibromoethane (EDB)	2970	100	ug/kg	2500		119	75-130			
Dibromomethane	2890	100	ug/kg	2500		116	75-135			
1,2-Dichlorobenzene	2660	100	ug/kg	2500		106	80-120			
1,3-Dichlorobenzene	2590	100	ug/kg	2500		104	80-120			
1,4-Dichlorobenzene	2570	100	ug/kg	2500		103	80-120			
Dichlorodifluoromethane	1220	250	ug/kg	2500		49	10-160			
1,1-Dichloroethane	2720	100	ug/kg	2500		109	70-135			
1,2-Dichloroethane	2930	100	ug/kg	2500		117	60-150			
1,1-Dichloroethene	2710	250	ug/kg	2500		108	80-145			
cis-1,2-Dichloroethene	2760	100	ug/kg	2500		110	70-135			
trans-1,2-Dichloroethene	2860	100	ug/kg	2500		114	70-135			
1,2-Dichloropropane	2660	100	ug/kg	2500		106	75-125			
1,3-Dichloropropane	2810	100	ug/kg	2500		112	75-130			
2,2-Dichloropropane	2800	100	ug/kg	2500		112	70-150			
1,1-Dichloropropene	2640	100	ug/kg	2500		106	75-130			
cis-1,3-Dichloropropene	2660	100	ug/kg	2500		106	75-130			
trans-1,3-Dichloropropene	2700	100	ug/kg	2500		108	75-135			

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager

Geosyntec Consultants/Project Navigator - Ascon  
 2100 Main Street, Suite 150  
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 Attention: Mike Reardon

 Project ID: Ascon - Soils  
 SB0202/31  
 Report Number: INE1148

 Sampled: 05/19/04  
 Received: 05/19/04

**METHOD BLANK/QC DATA**
**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>LCS Analyzed: 05/25/04 (4E25012-BS1)</b>										
Ethylbenzene	2720	100	ug/kg	2500		109	80-120			
Hexachlorobutadiene	2620	250	ug/kg	2500		105	75-140			
Isopropylbenzene	2610	100	ug/kg	2500		104	75-125			
p-Isopropyltoluene	2600	100	ug/kg	2500		104	80-125			
Methylene chloride	2910	1000	ug/kg	2500		116	60-145			
Naphthalene	2810	250	ug/kg	2500		112	50-145			
n-Propylbenzene	2580	100	ug/kg	2500		103	75-130			
Styrene	2810	100	ug/kg	2500		112	80-135			
1,1,1,2-Tetrachloroethane	2670	250	ug/kg	2500		107	70-145			
1,1,2,2-Tetrachloroethane	3400	100	ug/kg	2500		136	60-135			L
Tetrachloroethene	2600	100	ug/kg	2500		104	80-125			
Toluene	2670	100	ug/kg	2500		107	80-125			
1,2,3-Trichlorobenzene	2680	250	ug/kg	2500		107	65-135			
1,2,4-Trichlorobenzene	2630	250	ug/kg	2500		105	70-140			
1,1,1-Trichloroethane	2710	100	ug/kg	2500		108	75-140			
1,1,2-Trichloroethane	2760	100	ug/kg	2500		110	70-130			
Trichloroethene	2600	100	ug/kg	2500		104	80-130			
Trichlorofluoromethane	2680	250	ug/kg	2500		107	55-145			
1,2,3-Trichloropropane	2930	500	ug/kg	2500		117	60-130			
1,2,4-Trimethylbenzene	2710	100	ug/kg	2500		108	80-125			
1,3,5-Trimethylbenzene	2680	100	ug/kg	2500		107	80-125			
Vinyl chloride	463	250	ug/kg	2500		19	10-120			
o-Xylene	2590	100	ug/kg	2500		104	80-125			
m,p-Xylenes	5340	100	ug/kg	5000		107	80-120			
Surrogate: Dibromofluoromethane	3010		ug/kg	2500		120	50-160			
Surrogate: Toluene-d8	2920		ug/kg	2500		117	60-160			
Surrogate: 4-Bromofluorobenzene	3000		ug/kg	2500		120	60-150			

**Del Mar Analytical, Irvine**  
 Amanda Cordova  
 Project Manager



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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>LCS Dup Analyzed: 05/25/04 (4E25012-BSD1)</b>										
Benzene	2590	100	ug/kg	2500		104	75-125	2	20	
Bromobenzene	2720	250	ug/kg	2500		109	80-120	3	20	
Bromochloromethane	2850	250	ug/kg	2500		114	65-140	1	20	
Bromodichloromethane	2670	100	ug/kg	2500		107	70-140	3	20	
Bromoform	2690	250	ug/kg	2500		108	60-130	6	25	
Bromomethane	1640	250	ug/kg	2500		66	35-140	0	30	
n-Butylbenzene	2820	250	ug/kg	2500		113	80-130	3	20	
sec-Butylbenzene	2770	250	ug/kg	2500		111	75-125	6	20	
tert-Butylbenzene	2770	250	ug/kg	2500		111	80-125	5	20	
Carbon tetrachloride	2620	250	ug/kg	2500		105	70-140	2	20	
Chlorobenzene	2630	100	ug/kg	2500		105	80-125	1	20	
Chloroethane	1740	250	ug/kg	2500		70	40-145	0	25	
Chloroform	2770	100	ug/kg	2500		111	75-130	1	20	
Chloromethane	1700	250	ug/kg	2500		68	30-145	2	25	
2-Chlorotoluene	2710	250	ug/kg	2500		108	75-125	6	20	
4-Chlorotoluene	2760	250	ug/kg	2500		110	80-125	5	20	
Dibromochloromethane	2650	100	ug/kg	2500		106	65-145	3	20	
1,2-Dibromo-3-chloropropane	2580	250	ug/kg	2500		103	45-135	2	25	
1,2-Dibromoethane (EDB)	2830	100	ug/kg	2500		113	75-130	5	20	
Dibromomethane	2750	100	ug/kg	2500		110	75-135	5	20	
1,2-Dichlorobenzene	2720	100	ug/kg	2500		109	80-120	2	20	
1,3-Dichlorobenzene	2620	100	ug/kg	2500		105	80-120	1	20	
1,4-Dichlorobenzene	2620	100	ug/kg	2500		105	80-120	2	20	
Dichlorodifluoromethane	1220	250	ug/kg	2500		49	10-160	0	30	
1,1-Dichloroethane	2730	100	ug/kg	2500		109	70-135	0	20	
1,2-Dichloroethane	2800	100	ug/kg	2500		112	60-150	5	25	
1,1-Dichloroethene	2690	250	ug/kg	2500		108	80-145	1	20	
cis-1,2-Dichloroethene	2700	100	ug/kg	2500		108	70-135	2	20	
trans-1,2-Dichloroethene	2860	100	ug/kg	2500		114	70-135	0	20	
1,2-Dichloropropane	2640	100	ug/kg	2500		106	75-125	1	20	
1,3-Dichloropropane	2700	100	ug/kg	2500		108	75-130	4	20	
2,2-Dichloropropane	2960	100	ug/kg	2500		118	70-150	6	20	
1,1-Dichloropropene	2670	100	ug/kg	2500		107	75-130	1	20	
cis-1,3-Dichloropropene	2640	100	ug/kg	2500		106	75-130	1	20	
trans-1,3-Dichloropropene	2620	100	ug/kg	2500		105	75-135	3	20	

Del Mar Analytical, Irvine  
Amanda Cordova  
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>LCS Dup Analyzed: 05/25/04 (4E25012-BSD1)</b>										
Ethylbenzene	2710	100	ug/kg	2500		108	80-120	0	20	
Hexachlorobutadiene	2680	250	ug/kg	2500		107	75-140	2	20	
Isopropylbenzene	2760	100	ug/kg	2500		110	75-125	6	20	
p-Isopropyltoluene	2720	100	ug/kg	2500		109	80-125	5	20	
Methylene chloride	2880	1000	ug/kg	2500		115	60-145	1	20	
Naphthalene	2960	250	ug/kg	2500		118	50-145	5	25	
n-Propylbenzene	2790	100	ug/kg	2500		112	75-130	8	20	
Styrene	2800	100	ug/kg	2500		112	80-135	0	20	
1,1,1,2-Tetrachloroethane	2620	250	ug/kg	2500		105	70-145	2	20	
1,1,2,2-Tetrachloroethane	3370	100	ug/kg	2500		135	60-135	1	25	
Tetrachloroethene	2630	100	ug/kg	2500		105	80-125	1	20	
Toluene	2640	100	ug/kg	2500		106	80-125	1	20	
1,2,3-Trichlorobenzene	2670	250	ug/kg	2500		107	65-135	0	20	
1,2,4-Trichlorobenzene	2670	250	ug/kg	2500		107	70-140	2	20	
1,1,1-Trichloroethane	2720	100	ug/kg	2500		109	75-140	0	20	
1,1,2-Trichloroethane	2690	100	ug/kg	2500		108	70-130	3	20	
Trichloroethene	2610	100	ug/kg	2500		104	80-130	0	20	
Trichlorofluoromethane	2620	250	ug/kg	2500		105	55-145	2	25	
1,2,3-Trichloropropane	2910	500	ug/kg	2500		116	60-130	1	20	
1,2,4-Trimethylbenzene	2800	100	ug/kg	2500		112	80-125	3	20	
1,3,5-Trimethylbenzene	2850	100	ug/kg	2500		114	80-125	6	20	
Vinyl chloride	421	250	ug/kg	2500		17	10-120	10	30	
o-Xylene	2580	100	ug/kg	2500		103	80-125	0	20	
m,p-Xylenes	5270	100	ug/kg	5000		105	80-120	1	20	
Surrogate: Dibromofluoromethane	2970		ug/kg	2500		119	50-160			
Surrogate: Toluene-d8	2910		ug/kg	2500		116	60-160			
Surrogate: 4-Bromofluorobenzene	2980		ug/kg	2500		119	60-150			

Del Mar Analytical, Irvine  
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**METHOD BLANK/QC DATA**

**VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Matrix Spike Analyzed: 05/26/04 (4E25012-MS1)</b>					<b>Source: INE1250-04</b>					
Benzene	2450	100	ug/kg	2500	ND	98	60-140			
Bromobenzene	2640	250	ug/kg	2500	ND	106	65-130			
Bromochloromethane	2690	250	ug/kg	2500	ND	108	60-145			
Bromodichloromethane	2450	100	ug/kg	2500	ND	98	65-150			
Bromoform	2110	250	ug/kg	2500	ND	84	55-150			
Bromomethane	1290	250	ug/kg	2500	ND	52	30-160			
n-Butylbenzene	3280	250	ug/kg	2500	ND	131	60-150			
sec-Butylbenzene	3010	250	ug/kg	2500	180	113	65-145			
tert-Butylbenzene	2640	250	ug/kg	2500	ND	106	60-150			
Carbon tetrachloride	2460	250	ug/kg	2500	ND	98	70-140			
Chlorobenzene	2680	100	ug/kg	2500	ND	107	70-140			
Chloroethane	1290	250	ug/kg	2500	ND	52	30-170			
Chloroform	2430	100	ug/kg	2500	ND	97	60-140			
Chloromethane	1310	250	ug/kg	2500	ND	52	30-160			
2-Chlorotoluene	2780	250	ug/kg	2500	ND	111	60-140			
4-Chlorotoluene	2740	250	ug/kg	2500	ND	110	70-135			
Dibromochloromethane	2400	100	ug/kg	2500	ND	96	60-150			
1,2-Dibromo-3-chloropropane	2260	250	ug/kg	2500	ND	90	40-150			
1,2-Dibromoethane (EDB)	2310	100	ug/kg	2500	ND	92	65-140			
Dibromomethane	2440	100	ug/kg	2500	ND	98	65-140			
1,2-Dichlorobenzene	2710	100	ug/kg	2500	ND	108	70-130			
1,3-Dichlorobenzene	2720	100	ug/kg	2500	ND	109	60-155			
1,4-Dichlorobenzene	2740	100	ug/kg	2500	ND	110	55-150			
Dichlorodifluoromethane	808	250	ug/kg	2500	ND	32	10-160			
1,1-Dichloroethane	2460	100	ug/kg	2500	ND	98	60-155			
1,2-Dichloroethane	2230	100	ug/kg	2500	ND	89	55-150			
1,1-Dichloroethene	2360	250	ug/kg	2500	ND	94	60-165			
cis-1,2-Dichloroethene	2420	100	ug/kg	2500	ND	97	60-135			
trans-1,2-Dichloroethene	2440	100	ug/kg	2500	ND	98	50-155			
1,2-Dichloropropane	2480	100	ug/kg	2500	ND	99	65-135			
1,3-Dichloropropane	2250	100	ug/kg	2500	ND	90	65-135			
2,2-Dichloropropane	2180	100	ug/kg	2500	ND	87	60-150			
1,1-Dichloropropene	2450	100	ug/kg	2500	ND	98	60-140			
cis-1,3-Dichloropropene	2380	100	ug/kg	2500	ND	95	60-135			
trans-1,3-Dichloropropene	2370	100	ug/kg	2500	ND	95	55-155			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Matrix Spike Analyzed: 05/26/04 (4E25012-MS1)</b>					<b>Source: INE1250-04</b>					
Ethylbenzene	3150	100	ug/kg	2500	380	111	60-140			
Hexachlorobutadiene	2550	250	ug/kg	2500	ND	102	65-145			
Isopropylbenzene	3080	100	ug/kg	2500	260	113	60-140			
p-Isopropyltoluene	2900	100	ug/kg	2500	300	104	60-145			
Methylene chloride	2230	1000	ug/kg	2500	ND	89	50-155			
Naphthalene	4020	250	ug/kg	2500	920	124	30-165			
n-Propylbenzene	3320	100	ug/kg	2500	360	118	60-145			
Styrene	2730	100	ug/kg	2500	ND	109	60-145			
1,1,1,2-Tetrachloroethane	2580	250	ug/kg	2500	ND	103	65-145			
1,1,2,2-Tetrachloroethane	2010	100	ug/kg	2500	ND	80	60-150			
Tetrachloroethene	2680	100	ug/kg	2500	ND	107	65-145			
Toluene	2740	100	ug/kg	2500	250	100	60-145			
1,2,3-Trichlorobenzene	2940	250	ug/kg	2500	ND	118	45-145			
1,2,4-Trichlorobenzene	3020	250	ug/kg	2500	ND	121	60-140			
1,1,1-Trichloroethane	2350	100	ug/kg	2500	ND	94	65-140			
1,1,2-Trichloroethane	2430	100	ug/kg	2500	ND	97	60-140			
Trichloroethene	2900	100	ug/kg	2500	ND	116	70-150			
Trichlorofluoromethane	2030	250	ug/kg	2500	ND	81	35-165			
1,2,3-Trichloropropane	2140	500	ug/kg	2500	ND	86	50-150			
1,2,4-Trimethylbenzene	4340	100	ug/kg	2500	1300	122	70-135			
1,3,5-Trimethylbenzene	3190	100	ug/kg	2500	360	113	70-135			
Vinyl chloride	1110	250	ug/kg	2500	ND	44	10-120			
o-Xylene	2920	100	ug/kg	2500	320	104	60-145			
m,p-Xylenes	6080	100	ug/kg	5000	650	109	60-140			
Surrogate: Dibromofluoromethane	2670		ug/kg	2500		107	50-160			
Surrogate: Toluene-d8	2760		ug/kg	2500		110	60-160			
Surrogate: 4-Bromofluorobenzene	2600		ug/kg	2500		104	60-150			

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Amanda Cordova  
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Matrix Spike Dup Analyzed: 05/26/04 (4E25012-MSD1)</b>					<b>Source: INE1250-04</b>					
Benzene	1820	100	ug/kg	2500	ND	73	60-140	30	25	R
Bromobenzene	1890	250	ug/kg	2500	ND	76	65-130	33	25	R
Bromochloromethane	1970	250	ug/kg	2500	ND	79	60-145	31	25	R
Bromodichloromethane	1820	100	ug/kg	2500	ND	73	65-150	30	25	R
Bromoform	1570	250	ug/kg	2500	ND	63	55-150	29	30	
Bromomethane	1150	250	ug/kg	2500	ND	46	30-160	11	30	
n-Butylbenzene	2690	250	ug/kg	2500	ND	108	60-150	20	25	
sec-Butylbenzene	2300	250	ug/kg	2500	180	85	65-145	27	25	R
tert-Butylbenzene	1890	250	ug/kg	2500	ND	76	60-150	33	20	R
Carbon tetrachloride	1770	250	ug/kg	2500	ND	71	70-140	33	20	R
Chlorobenzene	2010	100	ug/kg	2500	ND	80	70-140	29	25	R
Chloroethane	1290	250	ug/kg	2500	ND	52	30-170	0	35	
Chloroform	1830	100	ug/kg	2500	ND	73	60-140	28	25	R
Chloromethane	1030	250	ug/kg	2500	ND	41	30-160	24	30	
2-Chlorotoluene	2040	250	ug/kg	2500	ND	82	60-140	31	25	R
4-Chlorotoluene	1970	250	ug/kg	2500	ND	79	70-135	33	20	R
Dibromochloromethane	1720	100	ug/kg	2500	ND	69	60-150	33	25	R
1,2-Dibromo-3-chloropropane	1960	250	ug/kg	2500	ND	78	40-150	14	30	
1,2-Dibromoethane (EDB)	1720	100	ug/kg	2500	ND	69	65-140	29	25	R
Dibromomethane	1840	100	ug/kg	2500	ND	74	65-140	28	20	R
1,2-Dichlorobenzene	1980	100	ug/kg	2500	ND	79	70-130	31	20	R
1,3-Dichlorobenzene	1930	100	ug/kg	2500	ND	77	60-155	34	25	R
1,4-Dichlorobenzene	1980	100	ug/kg	2500	ND	79	55-150	32	25	R
Dichlorodifluoromethane	744	250	ug/kg	2500	ND	30	10-160	8	35	
1,1-Dichloroethane	1810	100	ug/kg	2500	ND	72	60-155	30	25	R
1,2-Dichloroethane	1640	100	ug/kg	2500	ND	66	55-150	30	30	
1,1-Dichloroethene	1770	250	ug/kg	2500	ND	71	60-165	29	25	R
cis-1,2-Dichloroethene	1770	100	ug/kg	2500	ND	71	60-135	31	25	R
trans-1,2-Dichloroethene	1800	100	ug/kg	2500	ND	72	50-155	30	25	R
1,2-Dichloropropane	1820	100	ug/kg	2500	ND	73	65-135	31	20	R
1,3-Dichloropropane	1660	100	ug/kg	2500	ND	66	65-135	30	20	R
2,2-Dichloropropane	1730	100	ug/kg	2500	ND	69	60-150	23	20	R
1,1-Dichloropropene	1790	100	ug/kg	2500	ND	72	60-140	31	20	R
cis-1,3-Dichloropropene	1760	100	ug/kg	2500	ND	70	60-135	30	25	R
trans-1,3-Dichloropropene	1750	100	ug/kg	2500	ND	70	55-155	30	25	R

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager





Geosyntec Consultants/Project Navigator - Ascon  
2100 Main Street, Suite 150  
Huntington Beach, CA 92648  
Attention: Mike Reardon

Project ID: Ascon - Soils  
SB0202/31  
Report Number: INE1148

Sampled: 05/19/04  
Received: 05/19/04

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25012 Extracted: 05/25/04</b>										
<b>Matrix Spike Dup Analyzed: 05/26/04 (4E25012-MSD1)</b>					<b>Source: INE1250-04</b>					
Ethylbenzene	2570	100	ug/kg	2500	380	88	60-140	20	25	
Hexachlorobutadiene	1680	250	ug/kg	2500	ND	67	65-145	41	25	R
Isopropylbenzene	2370	100	ug/kg	2500	260	84	60-140	26	25	R
p-Isopropyltoluene	2360	100	ug/kg	2500	300	82	60-145	21	25	
Methylene chloride	1680	1000	ug/kg	2500	ND	67	50-155	28	25	R
Naphthalene	3650	250	ug/kg	2500	920	109	30-165	10	30	
n-Propylbenzene	2640	100	ug/kg	2500	360	91	60-145	23	25	
Styrene	1990	100	ug/kg	2500	ND	80	60-145	31	20	R
1,1,1,2-Tetrachloroethane	1920	250	ug/kg	2500	ND	77	65-145	29	20	R
1,1,2,2-Tetrachloroethane	1590	100	ug/kg	2500	ND	64	60-150	23	20	R
Tetrachloroethene	1880	100	ug/kg	2500	ND	75	65-145	35	25	R
Toluene	2070	100	ug/kg	2500	250	73	60-145	28	25	R
1,2,3-Trichlorobenzene	2000	250	ug/kg	2500	ND	80	45-145	38	30	R
1,2,4-Trichlorobenzene	2090	250	ug/kg	2500	ND	84	60-140	36	25	R
1,1,1-Trichloroethane	1750	100	ug/kg	2500	ND	70	65-140	29	25	R
1,1,2-Trichloroethane	1890	100	ug/kg	2500	ND	76	60-140	25	20	R
Trichloroethene	2080	100	ug/kg	2500	ND	83	70-150	33	25	R
Trichlorofluoromethane	1560	250	ug/kg	2500	ND	62	35-165	26	30	
1,2,3-Trichloropropane	1570	500	ug/kg	2500	ND	63	50-150	31	20	R
1,2,4-Trimethylbenzene	4070	100	ug/kg	2500	1300	111	70-135	6	20	
1,3,5-Trimethylbenzene	2550	100	ug/kg	2500	360	88	70-135	22	25	
Vinyl chloride	366	250	ug/kg	2500	ND	15	10-120	101	35	R
o-Xylene	2460	100	ug/kg	2500	320	86	60-145	17	25	
m,p-Xylenes	4940	100	ug/kg	5000	650	86	60-140	21	25	
Surrogate: Dibromofluoromethane	2480		ug/kg	2500		99	50-160			
Surrogate: Toluene-d8	2500		ug/kg	2500		100	60-160			
Surrogate: 4-Bromofluorobenzene	2440		ug/kg	2500		98	60-150			

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Amanda Cordova  
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### METHOD BLANK/QC DATA

### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>									
<b>Blank Analyzed: 05/21/04 (4E20036-BLK1)</b>									
Acenaphthene	ND	330	ug/kg						
Acenaphthylene	ND	330	ug/kg						
Aniline	ND	420	ug/kg						
Anthracene	ND	330	ug/kg						
Benzidine	ND	660	ug/kg						
Benzoic acid	ND	830	ug/kg						
Benzo(a)anthracene	ND	330	ug/kg						
Benzo(b)fluoranthene	ND	330	ug/kg						
Benzo(k)fluoranthene	ND	330	ug/kg						
Benzo(g,h,i)perylene	ND	330	ug/kg						
Benzo(a)pyrene	ND	330	ug/kg						
Benzyl alcohol	ND	330	ug/kg						
Bis(2-chloroethoxy)methane	ND	330	ug/kg						
Bis(2-chloroethyl)ether	ND	170	ug/kg						
Bis(2-chloroisopropyl)ether	ND	330	ug/kg						
Bis(2-ethylhexyl)phthalate	ND	330	ug/kg						
4-Bromophenyl phenyl ether	ND	330	ug/kg						
Butyl benzyl phthalate	ND	330	ug/kg						
4-Chloroaniline	ND	330	ug/kg						
2-Chloronaphthalene	ND	330	ug/kg						
4-Chloro-3-methylphenol	ND	330	ug/kg						
2-Chlorophenol	ND	330	ug/kg						
4-Chlorophenyl phenyl ether	ND	330	ug/kg						
Chrysene	ND	330	ug/kg						
Dibenz(a,h)anthracene	ND	420	ug/kg						
Dibenzofuran	ND	330	ug/kg						
Di-n-butyl phthalate	ND	330	ug/kg						
1,3-Dichlorobenzene	ND	330	ug/kg						
1,4-Dichlorobenzene	ND	330	ug/kg						
1,2-Dichlorobenzene	ND	330	ug/kg						
3,3-Dichlorobenzidine	ND	830	ug/kg						
2,4-Dichlorophenol	ND	330	ug/kg						
Diethyl phthalate	ND	330	ug/kg						
2,4-Dimethylphenol	ND	330	ug/kg						
Dimethyl phthalate	ND	330	ug/kg						

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/21/04 (4E20036-BLK1)</b>										
4,6-Dinitro-2-methylphenol	ND	420	ug/kg							
2,4-Dinitrophenol	ND	420	ug/kg							
2,4-Dinitrotoluene	ND	330	ug/kg							
2,6-Dinitrotoluene	ND	330	ug/kg							
Di-n-octyl phthalate	ND	330	ug/kg							
Fluoranthene	ND	330	ug/kg							
Fluorene	ND	330	ug/kg							
Hexachlorobenzene	ND	330	ug/kg							
Hexachlorobutadiene	ND	330	ug/kg							
Hexachlorocyclopentadiene	ND	830	ug/kg							
Hexachloroethane	ND	330	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg							
Isophorone	ND	330	ug/kg							
2-Methylnaphthalene	ND	330	ug/kg							
2-Methylphenol	ND	330	ug/kg							
4-Methylphenol	ND	330	ug/kg							
Naphthalene	ND	330	ug/kg							
2-Nitroaniline	ND	330	ug/kg							
3-Nitroaniline	ND	330	ug/kg							
4-Nitroaniline	ND	830	ug/kg							
Nitrobenzene	ND	330	ug/kg							
2-Nitrophenol	ND	330	ug/kg							
4-Nitrophenol	ND	830	ug/kg							
N-Nitrosodiphenylamine	ND	330	ug/kg							
N-Nitroso-di-n-propylamine	ND	250	ug/kg							
Pentachlorophenol	ND	830	ug/kg							
Phenanthrene	ND	330	ug/kg							
Phenol	ND	330	ug/kg							
Pyrene	ND	330	ug/kg							
1,2,4-Trichlorobenzene	ND	330	ug/kg							
2,4,5-Trichlorophenol	ND	330	ug/kg							
2,4,6-Trichlorophenol	ND	330	ug/kg							
1,2-Diphenylhydrazine/Azobenzene	ND	330	ug/kg							
Surrogate: 2-Fluorophenol	4940		ug/kg	6670		74	25-120			
Surrogate: Phenol-d6	5380		ug/kg	6670		81	30-120			

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### METHOD BLANK/QC DATA

### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/21/04 (4E20036-BLK1)</b>										
Surrogate: 2,4,6-Tribromophenol	5830		ug/kg	6670		87	35-120			
Surrogate: Nitrobenzene-d5	2710		ug/kg	3330		81	30-120			
Surrogate: 2-Fluorobiphenyl	2660		ug/kg	3330		80	35-120			
Surrogate: Terphenyl-d14	2680		ug/kg	3330		80	35-155			
<b>LCS Analyzed: 05/21/04 (4E20036-BS1)</b>										
Acenaphthene	2690	330	ug/kg	3330		81	55-120			
Acenaphthylene	2630	330	ug/kg	3330		79	55-120			
Aniline	1860	420	ug/kg	3330		56	30-120			
Anthracene	2890	330	ug/kg	3330		87	55-120			
Benzidine	2180	660	ug/kg	3330		65	10-180			
Benzoic acid	1650	830	ug/kg	3330		50	30-125			
Benzo(a)anthracene	2980	330	ug/kg	3330		89	65-120			
Benzo(b)fluoranthene	3820	330	ug/kg	3330		115	65-120			
Benzo(k)fluoranthene	3470	330	ug/kg	3330		104	60-120			
Benzo(g,h,i)perylene	4130	330	ug/kg	3330		124	25-160			
Benzo(a)pyrene	3860	330	ug/kg	3330		116	60-120			
Benzyl alcohol	2740	330	ug/kg	3330		82	40-130			
Bis(2-chloroethoxy)methane	2710	330	ug/kg	3330		81	50-120			
Bis(2-chloroethyl)ether	2620	170	ug/kg	3330		79	40-120			
Bis(2-chloroisopropyl)ether	2850	330	ug/kg	3330		86	40-120			
Bis(2-ethylhexyl)phthalate	3100	330	ug/kg	3330		93	65-125			
4-Bromophenyl phenyl ether	2680	330	ug/kg	3330		80	50-125			
Butyl benzyl phthalate	3030	330	ug/kg	3330		91	65-120			
4-Chloroaniline	1890	330	ug/kg	3330		57	20-120			
2-Chloronaphthalene	2580	330	ug/kg	3330		77	50-120			
4-Chloro-3-methylphenol	3020	330	ug/kg	3330		91	50-120			
2-Chlorophenol	2430	330	ug/kg	3330		73	45-120			
4-Chlorophenyl phenyl ether	2830	330	ug/kg	3330		85	55-120			
Chrysene	2880	330	ug/kg	3330		86	60-120			
Dibenz(a,h)anthracene	4190	420	ug/kg	3330		126	25-160			
Dibenzofuran	2760	330	ug/kg	3330		83	55-120			
Di-n-butyl phthalate	3070	330	ug/kg	3330		92	60-120			
1,3-Dichlorobenzene	2190	330	ug/kg	3330		66	40-120			
1,4-Dichlorobenzene	2260	330	ug/kg	3330		68	40-120			
1,2-Dichlorobenzene	2260	330	ug/kg	3330		68	40-120			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>LCS Analyzed: 05/21/04 (4E20036-BS1)</b>										
3,3-Dichlorobenzidine	2130	830	ug/kg	3330		64	20-170			
2,4-Dichlorophenol	2540	330	ug/kg	3330		76	55-120			
Diethyl phthalate	3110	330	ug/kg	3330		93	55-120			
2,4-Dimethylphenol	2440	330	ug/kg	3330		73	45-120			
Dimethyl phthalate	2850	330	ug/kg	3330		86	60-120			
4,6-Dinitro-2-methylphenol	3070	420	ug/kg	3330		92	50-120			
2,4-Dinitrophenol	2510	420	ug/kg	3330		75	25-140			
2,4-Dinitrotoluene	3380	330	ug/kg	3330		102	60-140			
2,6-Dinitrotoluene	3150	330	ug/kg	3330		95	60-125			
Di-n-octyl phthalate	3320	330	ug/kg	3330		100	60-135			
Fluoranthene	3190	330	ug/kg	3330		96	55-130			
Fluorene	2830	330	ug/kg	3330		85	55-120			
Hexachlorobenzene	2610	330	ug/kg	3330		78	45-120			
Hexachlorobutadiene	2330	330	ug/kg	3330		70	40-120			
Hexachlorocyclopentadiene	2260	830	ug/kg	3330		68	45-130			
Hexachloroethane	2420	330	ug/kg	3330		73	40-120			
Indeno(1,2,3-cd)pyrene	3680	330	ug/kg	3330		111	25-150			
Isophorone	2690	330	ug/kg	3330		81	45-120			
2-Methylnaphthalene	2640	330	ug/kg	3330		79	50-120			
2-Methylphenol	2680	330	ug/kg	3330		80	50-120			
4-Methylphenol	2870	330	ug/kg	3330		86	50-120			
Naphthalene	2610	330	ug/kg	3330		78	45-120			
2-Nitroaniline	3230	330	ug/kg	3330		97	55-130			
3-Nitroaniline	2540	330	ug/kg	3330		76	40-140			
4-Nitroaniline	3500	830	ug/kg	3330		105	40-160			
Nitrobenzene	2660	330	ug/kg	3330		80	45-120			
2-Nitrophenol	2520	330	ug/kg	3330		76	50-120			
4-Nitrophenol	3160	830	ug/kg	3330		95	45-135			
N-Nitrosodiphenylamine	2800	330	ug/kg	3330		84	55-120			
N-Nitroso-di-n-propylamine	2900	250	ug/kg	3330		87	45-120			
Pentachlorophenol	2780	830	ug/kg	3330		83	50-120			
Phenanthrene	2820	330	ug/kg	3330		85	55-120			
Phenol	2500	330	ug/kg	3330		75	45-120			
Pyrene	2760	330	ug/kg	3330		83	50-120			
1,2,4-Trichlorobenzene	2320	330	ug/kg	3330		70	45-120			

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**METHOD BLANK/QC DATA**
**SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>LCS Analyzed: 05/21/04 (4E20036-BS1)</b>										
2,4,5-Trichlorophenol	2790	330	ug/kg	3330		84	55-120			
2,4,6-Trichlorophenol	2770	330	ug/kg	3330		83	55-120			
1,2-Diphenylhydrazine/Azobenzene	3830	330	ug/kg	3330		115	60-120			
Surrogate: 2-Fluorophenol	4620		ug/kg	6670		69	25-120			
Surrogate: Phenol-d6	5180		ug/kg	6670		78	30-120			
Surrogate: 2,4,6-Tribromophenol	5720		ug/kg	6670		86	35-120			
Surrogate: Nitrobenzene-d5	2510		ug/kg	3330		75	30-120			
Surrogate: 2-Fluorobiphenyl	2400		ug/kg	3330		72	35-120			
Surrogate: Terphenyl-d14	2810		ug/kg	3330		84	35-155			
<b>Matrix Spike Analyzed: 05/21/04 (4E20036-MS1)</b>										
<b>Source: INE1048-11</b>										
Acenaphthene	2980	330	ug/kg	3330	ND	89	45-120			
Acenaphthylene	2930	330	ug/kg	3330	ND	88	45-120			
Aniline	2280	420	ug/kg	3330	ND	68	30-120			
Anthracene	3080	330	ug/kg	3330	ND	92	55-120			
Benzidine	851	660	ug/kg	3330	ND	26	10-180			
Benzoic acid	1930	830	ug/kg	3330	ND	58	20-125			
Benzo(a)anthracene	3240	330	ug/kg	3330	ND	97	55-120			
Benzo(b)fluoranthene	4090	330	ug/kg	3330	ND	123	65-120			MI
Benzo(k)fluoranthene	3680	330	ug/kg	3330	ND	111	55-120			
Benzo(g,h,i)perylene	4270	330	ug/kg	3330	ND	128	25-160			
Benzo(a)pyrene	4120	330	ug/kg	3330	ND	124	60-120			MI
Benzyl alcohol	3150	330	ug/kg	3330	ND	95	40-130			
Bis(2-chloroethoxy)methane	2950	330	ug/kg	3330	ND	89	45-120			
Bis(2-chloroethyl)ether	2420	170	ug/kg	3330	ND	73	40-120			
Bis(2-chloroisopropyl)ether	3180	330	ug/kg	3330	ND	95	40-120			
Bis(2-ethylhexyl)phthalate	3460	330	ug/kg	3330	ND	104	60-135			
4-Bromophenyl phenyl ether	3130	330	ug/kg	3330	ND	94	50-125			
Butyl benzyl phthalate	3260	330	ug/kg	3330	ND	98	55-150			
4-Chloroaniline	1560	330	ug/kg	3330	ND	47	20-120			
2-Chloronaphthalene	2930	330	ug/kg	3330	ND	88	55-120			
4-Chloro-3-methylphenol	3280	330	ug/kg	3330	ND	98	45-125			
2-Chlorophenol	2730	330	ug/kg	3330	ND	82	40-120			
4-Chlorophenyl phenyl ether	3010	330	ug/kg	3330	ND	90	55-120			
Chrysene	3090	330	ug/kg	3330	ND	93	60-120			
Dibenz(a,h)anthracene	4420	420	ug/kg	3330	ND	133	25-160			

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### METHOD BLANK/QC DATA

### SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Matrix Spike Analyzed: 05/21/04 (4E20036-MS1)</b>					<b>Source: INE1048-11</b>					
Dibenzofuran	3030	330	ug/kg	3330	ND	91	55-120			
Di-n-butyl phthalate	3170	330	ug/kg	3330	ND	95	60-120			
1,3-Dichlorobenzene	2540	330	ug/kg	3330	ND	76	35-120			
1,4-Dichlorobenzene	2200	330	ug/kg	3330	ND	66	40-120			
1,2-Dichlorobenzene	2520	330	ug/kg	3330	ND	76	40-120			
3,3-Dichlorobenzidine	2370	830	ug/kg	3330	ND	71	20-170			
2,4-Dichlorophenol	2940	330	ug/kg	3330	ND	88	40-120			
Diethyl phthalate	3070	330	ug/kg	3330	ND	92	55-120			
2,4-Dimethylphenol	3010	330	ug/kg	3330	ND	90	35-120			
Dimethyl phthalate	3030	330	ug/kg	3330	ND	91	50-120			
4,6-Dinitro-2-methylphenol	3030	420	ug/kg	3330	ND	91	40-120			
2,4-Dinitrophenol	2420	420	ug/kg	3330	ND	73	20-140			
2,4-Dinitrotoluene	3390	330	ug/kg	3330	ND	102	55-140			
2,6-Dinitrotoluene	3400	330	ug/kg	3330	ND	102	55-125			
Di-n-octyl phthalate	3830	330	ug/kg	3330	ND	115	45-140			
Fluoranthene	3190	330	ug/kg	3330	ND	96	45-130			
Fluorene	3010	330	ug/kg	3330	ND	90	55-120			
Hexachlorobenzene	3100	330	ug/kg	3330	ND	93	35-120			
Hexachlorobutadiene	2670	330	ug/kg	3330	ND	80	40-120			
Hexachlorocyclopentadiene	2610	830	ug/kg	3330	ND	78	30-145			
Hexachloroethane	2560	330	ug/kg	3330	ND	77	40-120			
Indeno(1,2,3-cd)pyrene	3910	330	ug/kg	3330	ND	117	25-150			
Isophorone	2930	330	ug/kg	3330	ND	88	40-120			
2-Methylnaphthalene	2890	330	ug/kg	3330	ND	87	40-120			
2-Methylphenol	3080	330	ug/kg	3330	ND	92	40-120			
4-Methylphenol	3230	330	ug/kg	3330	ND	97	40-120			
Naphthalene	2750	330	ug/kg	3330	ND	83	40-120			
2-Nitroaniline	3550	330	ug/kg	3330	ND	107	55-130			
3-Nitroaniline	2370	330	ug/kg	3330	ND	71	40-140			
4-Nitroaniline	3240	830	ug/kg	3330	ND	97	40-160			
Nitrobenzene	2970	330	ug/kg	3330	ND	89	45-120			
2-Nitrophenol	2950	330	ug/kg	3330	ND	89	40-120			
4-Nitrophenol	3020	830	ug/kg	3330	ND	91	35-135			
N-Nitrosodiphenylamine	3150	330	ug/kg	3330	ND	95	55-120			
N-Nitroso-di-n-propylamine	3290	250	ug/kg	3330	ND	99	40-120			

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Project ID: Ascon - Soils  
SB0202/31  
Report Number: INE1148

Sampled: 05/19/04  
Received: 05/19/04

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Matrix Spike Analyzed: 05/21/04 (4E20036-MS1)</b>					<b>Source: INE1048-11</b>					
Pentachlorophenol	3030	830	ug/kg	3330	ND	91	40-120			
Phenanthrene	3060	330	ug/kg	3330	ND	92	55-120			
Phenol	2740	330	ug/kg	3330	ND	82	40-120			
Pyrene	3100	330	ug/kg	3330	ND	93	50-120			
1,2,4-Trichlorobenzene	2580	330	ug/kg	3330	ND	77	45-120			
2,4,5-Trichlorophenol	3270	330	ug/kg	3330	ND	98	55-120			
2,4,6-Trichlorophenol	3200	330	ug/kg	3330	ND	96	40-120			
1,2-Diphenylhydrazine/Azobenzene	3880	330	ug/kg	3330	ND	117	60-120			
Surrogate: 2-Fluorophenol	5060		ug/kg	6670		76	25-120			
Surrogate: Phenol-d6	5620		ug/kg	6670		84	30-120			
Surrogate: 2,4,6-Tribromophenol	6490		ug/kg	6670		97	35-120			
Surrogate: Nitrobenzene-d5	2850		ug/kg	3330		86	30-120			
Surrogate: 2-Fluorobiphenyl	2720		ug/kg	3330		82	35-120			
Surrogate: Terphenyl-d14	3150		ug/kg	3330		95	35-155			
<b>Matrix Spike Dup Analyzed: 05/21/04 (4E20036-MSD1)</b>					<b>Source: INE1048-11</b>					
Acenaphthene	2930	330	ug/kg	3330	ND	88	45-120	2	20	
Acenaphthylene	2840	330	ug/kg	3330	ND	85	45-120	3	20	
Aniline	2190	420	ug/kg	3330	ND	66	30-120	4	25	
Anthracene	2960	330	ug/kg	3330	ND	89	55-120	4	20	
Benzidine	727	660	ug/kg	3330	ND	22	10-180	16	25	
Benzoic acid	1520	830	ug/kg	3330	ND	46	20-125	24	25	
Benzo(a)anthracene	3220	330	ug/kg	3330	ND	97	55-120	1	20	
Benzo(b)fluoranthene	4140	330	ug/kg	3330	ND	124	65-120	1	20	MI
Benzo(k)fluoranthene	3670	330	ug/kg	3330	ND	110	55-120	0	20	
Benzo(g,h,i)perylene	4400	330	ug/kg	3330	ND	132	25-160	3	25	
Benzo(a)pyrene	4050	330	ug/kg	3330	ND	122	60-120	2	20	MI
Benzyl alcohol	2990	330	ug/kg	3330	ND	90	40-130	5	25	
Bis(2-chloroethoxy)methane	2810	330	ug/kg	3330	ND	84	45-120	5	20	
Bis(2-chloroethyl)ether	2220	170	ug/kg	3330	ND	67	40-120	9	25	
Bis(2-chloroisopropyl)ether	3020	330	ug/kg	3330	ND	91	40-120	5	25	
Bis(2-ethylhexyl)phthalate	3350	330	ug/kg	3330	ND	101	60-135	3	20	
4-Bromophenyl phenyl ether	3100	330	ug/kg	3330	ND	93	50-125	1	20	
Butyl benzyl phthalate	3150	330	ug/kg	3330	ND	95	55-150	3	20	
4-Chloroaniline	1730	330	ug/kg	3330	ND	52	20-120	10	25	
2-Chloronaphthalene	2830	330	ug/kg	3330	ND	85	55-120	3	20	

Del Mar Analytical, Irvine  
Amanda Cordova  
Project Manager



Geosyntec Consultants/Project Navigator - Ascon  
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**METHOD BLANK/QC DATA**
**SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Matrix Spike Dup Analyzed: 05/21/04 (4E20036-MSD1)</b>					<b>Source: INE1048-11</b>					
4-Chloro-3-methylphenol	3180	330	ug/kg	3330	ND	95	45-125	3	20	
2-Chlorophenol	2610	330	ug/kg	3330	ND	78	40-120	4	20	
4-Chlorophenyl phenyl ether	2940	330	ug/kg	3330	ND	88	55-120	2	20	
Chrysene	3110	330	ug/kg	3330	ND	93	60-120	1	20	
Dibenz(a,h)anthracene	4430	420	ug/kg	3330	ND	133	25-160	0	25	
Dibenzofuran	2940	330	ug/kg	3330	ND	88	55-120	3	20	
Di-n-butyl phthalate	3120	330	ug/kg	3330	ND	94	60-120	2	20	
1,3-Dichlorobenzene	2420	330	ug/kg	3330	ND	73	35-120	5	25	
1,4-Dichlorobenzene	2220	330	ug/kg	3330	ND	67	40-120	1	25	
1,2-Dichlorobenzene	2430	330	ug/kg	3330	ND	73	40-120	4	20	
3,3-Dichlorobenzidine	2390	830	ug/kg	3330	ND	72	20-170	1	25	
2,4-Dichlorophenol	2780	330	ug/kg	3330	ND	83	40-120	6	20	
Diethyl phthalate	3110	330	ug/kg	3330	ND	93	55-120	1	20	
2,4-Dimethylphenol	2870	330	ug/kg	3330	ND	86	35-120	5	25	
Dimethyl phthalate	3020	330	ug/kg	3330	ND	91	50-120	0	20	
4,6-Dinitro-2-methylphenol	3080	420	ug/kg	3330	ND	92	40-120	2	20	
2,4-Dinitrophenol	2340	420	ug/kg	3330	ND	70	20-140	3	25	
2,4-Dinitrotoluene	3310	330	ug/kg	3330	ND	99	55-140	2	20	
2,6-Dinitrotoluene	3310	330	ug/kg	3330	ND	99	55-125	3	20	
Di-n-octyl phthalate	3820	330	ug/kg	3330	ND	115	45-140	0	20	
Fluoranthene	3160	330	ug/kg	3330	ND	95	45-130	1	20	
Fluorene	2910	330	ug/kg	3330	ND	87	55-120	3	20	
Hexachlorobenzene	3040	330	ug/kg	3330	ND	91	35-120	2	25	
Hexachlorobutadiene	2550	330	ug/kg	3330	ND	77	40-120	5	20	
Hexachlorocyclopentadiene	2480	830	ug/kg	3330	ND	74	30-145	5	30	
Hexachloroethane	2510	330	ug/kg	3330	ND	75	40-120	2	20	
Indeno(1,2,3-cd)pyrene	3910	330	ug/kg	3330	ND	117	25-150	0	25	
Isophorone	2820	330	ug/kg	3330	ND	85	40-120	4	20	
2-Methylnaphthalene	2710	330	ug/kg	3330	ND	81	40-120	6	20	
2-Methylphenol	2960	330	ug/kg	3330	ND	89	40-120	4	20	
4-Methylphenol	3100	330	ug/kg	3330	ND	93	40-120	4	20	
Naphthalene	2700	330	ug/kg	3330	ND	81	40-120	2	20	
2-Nitroaniline	3420	330	ug/kg	3330	ND	103	55-130	4	20	
3-Nitroaniline	2480	330	ug/kg	3330	ND	74	40-140	5	25	
4-Nitroaniline	3220	830	ug/kg	3330	ND	97	40-160	1	20	

**Del Mar Analytical, Irvine**  
 Amanda Cordova  
 Project Manager

Geosyntec Consultants/Project Navigator - Ascon  
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**METHOD BLANK/QC DATA**
**SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20036 Extracted: 05/20/04</b>										
<b>Matrix Spike Dup Analyzed: 05/21/04 (4E20036-MSD1)</b>					<b>Source: INE1048-11</b>					
Nitrobenzene	2820	330	ug/kg	3330	ND	85	45-120	5	20	
2-Nitrophenol	2820	330	ug/kg	3330	ND	85	40-120	5	20	
4-Nitrophenol	1850	830	ug/kg	3330	ND	56	35-135	48	25	R
N-Nitrosodiphenylamine	3110	330	ug/kg	3330	ND	93	55-120	1	20	
N-Nitroso-di-n-propylamine	3070	250	ug/kg	3330	ND	92	40-120	7	20	
Pentachlorophenol	2970	830	ug/kg	3330	ND	89	40-120	2	20	
Phenanthrene	3000	330	ug/kg	3330	ND	90	55-120	2	20	
Phenol	2660	330	ug/kg	3330	ND	80	40-120	3	20	
Pyrene	2950	330	ug/kg	3330	ND	89	50-120	5	20	
1,2,4-Trichlorobenzene	2510	330	ug/kg	3330	ND	75	45-120	3	20	
2,4,5-Trichlorophenol	3120	330	ug/kg	3330	ND	94	55-120	5	20	
2,4,6-Trichlorophenol	3050	330	ug/kg	3330	ND	92	40-120	5	20	
1,2-Diphenylhydrazine/Azobenzene	3780	330	ug/kg	3330	ND	114	60-120	3	20	
Surrogate: 2-Fluorophenol	4860		ug/kg	6670		73	25-120			
Surrogate: Phenol-d6	5340		ug/kg	6670		80	30-120			
Surrogate: 2,4,6-Tribromophenol	6290		ug/kg	6670		94	35-120			
Surrogate: Nitrobenzene-d5	2640		ug/kg	3330		79	30-120			
Surrogate: 2-Fluorobiphenyl	2660		ug/kg	3330		80	35-120			
Surrogate: Terphenyl-d14	2970		ug/kg	3330		89	35-155			

**Batch: 4E25044 Extracted: 05/25/04**
**Blank Analyzed: 05/27/04 (4E25044-BLK1)**

Acenaphthene	ND	330	ug/kg							
Acenaphthylene	ND	330	ug/kg							
Aniline	ND	420	ug/kg							
Anthracene	ND	330	ug/kg							
Benzidine	ND	660	ug/kg							
Benzoic acid	ND	830	ug/kg							
Benzo(a)anthracene	ND	330	ug/kg							
Benzo(b)fluoranthene	ND	330	ug/kg							
Benzo(k)fluoranthene	ND	330	ug/kg							
Benzo(g,h,i)perylene	ND	330	ug/kg							
Benzo(a)pyrene	ND	330	ug/kg							
Benzyl alcohol	ND	330	ug/kg							
Bis(2-chloroethoxy)methane	ND	330	ug/kg							

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 Amanda Cordova  
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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Blank Analyzed: 05/27/04 (4E25044-BLK1)</b>										
Bis(2-chloroethyl)ether	ND	170	ug/kg							
Bis(2-chloroisopropyl)ether	ND	330	ug/kg							
Bis(2-ethylhexyl)phthalate	ND	330	ug/kg							
4-Bromophenyl phenyl ether	ND	330	ug/kg							
Butyl benzyl phthalate	ND	330	ug/kg							
4-Chloroaniline	ND	330	ug/kg							
2-Chloronaphthalene	ND	330	ug/kg							
4-Chloro-3-methylphenol	ND	330	ug/kg							
2-Chlorophenol	ND	330	ug/kg							
4-Chlorophenyl phenyl ether	ND	330	ug/kg							
Chrysene	ND	330	ug/kg							
Dibenz(a,h)anthracene	ND	420	ug/kg							
Dibenzofuran	ND	330	ug/kg							
Di-n-butyl phthalate	ND	330	ug/kg							
1,3-Dichlorobenzene	ND	330	ug/kg							
1,4-Dichlorobenzene	ND	330	ug/kg							
1,2-Dichlorobenzene	ND	330	ug/kg							
3,3-Dichlorobenzidine	ND	830	ug/kg							
2,4-Dichlorophenol	ND	330	ug/kg							
Diethyl phthalate	ND	330	ug/kg							
2,4-Dimethylphenol	ND	330	ug/kg							
Dimethyl phthalate	ND	330	ug/kg							
4,6-Dinitro-2-methylphenol	ND	420	ug/kg							
2,4-Dinitrophenol	ND	420	ug/kg							
2,4-Dinitrotoluene	ND	330	ug/kg							
2,6-Dinitrotoluene	ND	330	ug/kg							
Di-n-octyl phthalate	ND	330	ug/kg							
Fluoranthene	ND	330	ug/kg							
Fluorene	ND	330	ug/kg							
Hexachlorobenzene	ND	330	ug/kg							
Hexachlorobutadiene	ND	330	ug/kg							
Hexachlorocyclopentadiene	ND	830	ug/kg							
Hexachloroethane	ND	330	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg							
Isophorone	ND	330	ug/kg							

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Amanda Cordova  
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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Blank Analyzed: 05/27/04 (4E25044-BLK1)</b>										
2-Methylnaphthalene	ND	330	ug/kg							
2-Methylphenol	ND	330	ug/kg							
4-Methylphenol	ND	330	ug/kg							
Naphthalene	ND	330	ug/kg							
2-Nitroaniline	ND	330	ug/kg							
3-Nitroaniline	ND	330	ug/kg							
4-Nitroaniline	ND	830	ug/kg							
Nitrobenzene	ND	330	ug/kg							
2-Nitrophenol	ND	330	ug/kg							
4-Nitrophenol	ND	830	ug/kg							
N-Nitrosodiphenylamine	ND	330	ug/kg							
N-Nitroso-di-n-propylamine	ND	250	ug/kg							
Pentachlorophenol	ND	830	ug/kg							
Phenanthrene	ND	330	ug/kg							
Phenol	ND	330	ug/kg							
Pyrene	ND	330	ug/kg							
1,2,4-Trichlorobenzene	ND	330	ug/kg							
2,4,5-Trichlorophenol	ND	330	ug/kg							
2,4,6-Trichlorophenol	ND	330	ug/kg							
1,2-Diphenylhydrazine/Azobenzene	ND	330	ug/kg							
Surrogate: 2-Fluorophenol	4440		ug/kg	6670		67	25-120			
Surrogate: Phenol-d6	4700		ug/kg	6670		70	30-120			
Surrogate: 2,4,6-Tribromophenol	4660		ug/kg	6670		70	35-120			
Surrogate: Nitrobenzene-d5	2390		ug/kg	3330		72	30-120			
Surrogate: 2-Fluorobiphenyl	2280		ug/kg	3330		68	35-120			
Surrogate: Terphenyl-d14	2240		ug/kg	3330		67	35-155			

LCS Analyzed: 05/26/04 (4E25044-BS1)

Acenaphthene	2630	330	ug/kg	3330		79	55-120			
Acenaphthylene	2520	330	ug/kg	3330		76	55-120			
Aniline	1760	420	ug/kg	3330		53	30-120			
Anthracene	3000	330	ug/kg	3330		90	55-120			
Benzidine	2510	660	ug/kg	3330		75	10-180			
Benzoic acid	1760	830	ug/kg	3330		53	30-125			
Benzo(a)anthracene	3030	330	ug/kg	3330		91	65-120			
Benzo(b)fluoranthene	3070	330	ug/kg	3330		92	65-120			

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**SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>LCS Analyzed: 05/26/04 (4E25044-BS1)</b>										
Benzo(k)fluoranthene	2690	330	ug/kg	3330		81	60-120			
Benzo(g,h,i)perylene	3230	330	ug/kg	3330		97	25-160			
Benzo(a)pyrene	2990	330	ug/kg	3330		90	60-120			
Benzyl alcohol	2440	330	ug/kg	3330		73	40-130			
Bis(2-chloroethoxy)methane	2360	330	ug/kg	3330		71	50-120			
Bis(2-chloroethyl)ether	2300	170	ug/kg	3330		69	40-120			
Bis(2-chloroisopropyl)ether	2940	330	ug/kg	3330		88	40-120			
Bis(2-ethylhexyl)phthalate	3390	330	ug/kg	3330		102	65-125			
4-Bromophenyl phenyl ether	2700	330	ug/kg	3330		81	50-125			
Butyl benzyl phthalate	3040	330	ug/kg	3330		91	65-120			
4-Chloroaniline	1800	330	ug/kg	3330		54	20-120			
2-Chloronaphthalene	2420	330	ug/kg	3330		73	50-120			
4-Chloro-3-methylphenol	2730	330	ug/kg	3330		82	50-120			
2-Chlorophenol	2160	330	ug/kg	3330		65	45-120			
4-Chlorophenyl phenyl ether	2650	330	ug/kg	3330		80	55-120			
Chrysene	3080	330	ug/kg	3330		92	60-120			
Dibenz(a,h)anthracene	3280	420	ug/kg	3330		98	25-160			
Dibenzofuran	2550	330	ug/kg	3330		77	55-120			
Di-n-butyl phthalate	3400	330	ug/kg	3330		102	60-120			
1,3-Dichlorobenzene	1930	330	ug/kg	3330		58	40-120			
1,4-Dichlorobenzene	1960	330	ug/kg	3330		59	40-120			
1,2-Dichlorobenzene	2020	330	ug/kg	3330		61	40-120			
3,3-Dichlorobenzidine	2460	830	ug/kg	3330		74	20-170			
2,4-Dichlorophenol	2240	330	ug/kg	3330		67	55-120			
Diethyl phthalate	3050	330	ug/kg	3330		92	55-120			
2,4-Dimethylphenol	2100	330	ug/kg	3330		63	45-120			
Dimethyl phthalate	2700	330	ug/kg	3330		81	60-120			
4,6-Dinitro-2-methylphenol	2660	420	ug/kg	3330		80	50-120			
2,4-Dinitrophenol	1940	420	ug/kg	3330		58	25-140			
2,4-Dinitrotoluene	3130	330	ug/kg	3330		94	60-140			
2,6-Dinitrotoluene	2930	330	ug/kg	3330		88	60-125			
Di-n-octyl phthalate	3660	330	ug/kg	3330		110	60-135			
Fluoranthene	3470	330	ug/kg	3330		104	55-130			
Fluorene	2640	330	ug/kg	3330		79	55-120			
Hexachlorobenzene	2700	330	ug/kg	3330		81	45-120			

**Del Mar Analytical, Irvine**  
 Amanda Cordova  
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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>LCS Analyzed: 05/26/04 (4E25044-BS1)</b>										
Hexachlorobutadiene	2060	330	ug/kg	3330		62	40-120			
Hexachlorocyclopentadiene	2170	830	ug/kg	3330		65	45-130			
Hexachloroethane	2090	330	ug/kg	3330		63	40-120			
Indeno(1,2,3-cd)pyrene	2960	330	ug/kg	3330		89	25-150			
Isophorone	2450	330	ug/kg	3330		74	45-120			
2-Methylnaphthalene	2330	330	ug/kg	3330		70	50-120			
2-Methylphenol	2360	330	ug/kg	3330		71	50-120			
4-Methylphenol	2490	330	ug/kg	3330		75	50-120			
Naphthalene	2370	330	ug/kg	3330		71	45-120			
2-Nitroaniline	3340	330	ug/kg	3330		100	55-130			
3-Nitroaniline	2780	330	ug/kg	3330		83	40-140			
4-Nitroaniline	3380	830	ug/kg	3330		102	40-160			
Nitrobenzene	2440	330	ug/kg	3330		73	45-120			
2-Nitrophenol	2250	330	ug/kg	3330		68	50-120			
4-Nitrophenol	3280	830	ug/kg	3330		98	45-135			
N-Nitrosodiphenylamine	2940	330	ug/kg	3330		88	55-120			
N-Nitroso-di-n-propylamine	2710	250	ug/kg	3330		81	45-120			
Pentachlorophenol	2310	830	ug/kg	3330		69	50-120			
Phenanthrene	2950	330	ug/kg	3330		89	55-120			
Phenol	2240	330	ug/kg	3330		67	45-120			
Pyrene	2600	330	ug/kg	3330		78	50-120			
1,2,4-Trichlorobenzene	1990	330	ug/kg	3330		60	45-120			
2,4,5-Trichlorophenol	2610	330	ug/kg	3330		78	55-120			
2,4,6-Trichlorophenol	2540	330	ug/kg	3330		76	55-120			
1,2-Diphenylhydrazine/Azobenzene	4410	330	ug/kg	3330		132	60-120			L
Surrogate: 2-Fluorophenol	4150		ug/kg	6670		62	25-120			
Surrogate: Phenol-d6	4630		ug/kg	6670		69	30-120			
Surrogate: 2,4,6-Tribromophenol	5700		ug/kg	6670		85	35-120			
Surrogate: Nitrobenzene-d5	2300		ug/kg	3330		69	30-120			
Surrogate: 2-Fluorobiphenyl	2200		ug/kg	3330		66	35-120			
Surrogate: Terphenyl-d14	2720		ug/kg	3330		82	35-155			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Matrix Spike Analyzed: 05/26/04 (4E25044-MS1)</b>					<b>Source: INE1411-02</b>					
Acenaphthene	2700	330	ug/kg	3330	ND	81	45-120			
Acenaphthylene	2590	330	ug/kg	3330	ND	78	45-120			
Aniline	1730	420	ug/kg	3330	ND	52	30-120			
Anthracene	2940	330	ug/kg	3330	ND	88	55-120			
Benzidine	469	660	ug/kg	3330	ND	14	10-180			
Benzoic acid	1690	830	ug/kg	3330	ND	51	20-125			
Benzo(a)anthracene	2770	330	ug/kg	3330	ND	83	55-120			
Benzo(b)fluoranthene	2850	330	ug/kg	3330	ND	86	65-120			
Benzo(k)fluoranthene	2460	330	ug/kg	3330	ND	74	55-120			
Benzo(g,h,i)perylene	2630	330	ug/kg	3330	ND	79	25-160			
Benzo(a)pyrene	2730	330	ug/kg	3330	ND	82	60-120			
Benzyl alcohol	2200	330	ug/kg	3330	ND	66	40-130			
Bis(2-chloroethoxy)methane	2430	330	ug/kg	3330	ND	73	45-120			
Bis(2-chloroethyl)ether	2370	170	ug/kg	3330	ND	71	40-120			
Bis(2-chloroisopropyl)ether	3010	330	ug/kg	3330	ND	90	40-120			
Bis(2-ethylhexyl)phthalate	3160	330	ug/kg	3330	ND	95	60-135			
4-Bromophenyl phenyl ether	2710	330	ug/kg	3330	ND	81	50-125			
Butyl benzyl phthalate	2900	330	ug/kg	3330	ND	87	55-150			
4-Chloroaniline	1880	330	ug/kg	3330	ND	56	20-120			
2-Chloronaphthalene	2500	330	ug/kg	3330	ND	75	55-120			
4-Chloro-3-methylphenol	2790	330	ug/kg	3330	ND	84	45-125			
2-Chlorophenol	2250	330	ug/kg	3330	ND	68	40-120			
4-Chlorophenyl phenyl ether	2710	330	ug/kg	3330	ND	81	55-120			
Chrysene	2840	330	ug/kg	3330	ND	85	60-120			
Dibenz(a,h)anthracene	2810	420	ug/kg	3330	ND	84	25-160			
Dibenzofuran	2680	330	ug/kg	3330	ND	80	55-120			
Di-n-butyl phthalate	3170	330	ug/kg	3330	ND	95	60-120			
1,3-Dichlorobenzene	1850	330	ug/kg	3330	ND	56	35-120			
1,4-Dichlorobenzene	2060	330	ug/kg	3330	ND	62	40-120			
1,2-Dichlorobenzene	2030	330	ug/kg	3330	ND	61	40-120			
3,3-Dichlorobenzidine	2500	830	ug/kg	3330	ND	75	20-170			
2,4-Dichlorophenol	2300	330	ug/kg	3330	ND	69	40-120			
Diethyl phthalate	2990	330	ug/kg	3330	ND	90	55-120			
2,4-Dimethylphenol	2000	330	ug/kg	3330	ND	60	35-120			
Dimethyl phthalate	2680	330	ug/kg	3330	ND	80	50-120			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Matrix Spike Analyzed: 05/26/04 (4E25044-MS1)</b>					<b>Source: INE1411-02</b>					
4,6-Dinitro-2-methylphenol	1020	420	ug/kg	3330	ND	31	40-120			M2
2,4-Dinitrophenol	887	420	ug/kg	3330	ND	27	20-140			
2,4-Dinitrotoluene	3040	330	ug/kg	3330	ND	91	55-140			
2,6-Dinitrotoluene	2860	330	ug/kg	3330	ND	86	55-125			
Di-n-octyl phthalate	3420	330	ug/kg	3330	ND	103	45-140			
Fluoranthene	3160	330	ug/kg	3330	ND	95	45-130			
Fluorene	2710	330	ug/kg	3330	ND	81	55-120			
Hexachlorobenzene	2680	330	ug/kg	3330	ND	80	35-120			
Hexachlorobutadiene	1990	330	ug/kg	3330	ND	60	40-120			
Hexachlorocyclopentadiene	1210	830	ug/kg	3330	ND	36	30-145			
Hexachloroethane	2020	330	ug/kg	3330	ND	61	40-120			
Indeno(1,2,3-cd)pyrene	2600	330	ug/kg	3330	ND	78	25-150			
Isophorone	2490	330	ug/kg	3330	ND	75	40-120			
2-Methylnaphthalene	2400	330	ug/kg	3330	ND	72	40-120			
2-Methylphenol	2510	330	ug/kg	3330	ND	75	40-120			
4-Methylphenol	2690	330	ug/kg	3330	ND	81	40-120			
Naphthalene	2420	330	ug/kg	3330	ND	73	40-120			
2-Nitroaniline	3440	330	ug/kg	3330	ND	103	55-130			
3-Nitroaniline	2610	330	ug/kg	3330	ND	78	40-140			
4-Nitroaniline	3230	830	ug/kg	3330	ND	97	40-160			
Nitrobenzene	2500	330	ug/kg	3330	ND	75	45-120			
2-Nitrophenol	2180	330	ug/kg	3330	ND	65	40-120			
4-Nitrophenol	2130	830	ug/kg	3330	ND	64	35-135			
N-Nitrosodiphenylamine	2850	330	ug/kg	3330	ND	86	55-120			
N-Nitroso-di-n-propylamine	2840	250	ug/kg	3330	ND	85	40-120			
Pentachlorophenol	2650	830	ug/kg	3330	ND	80	40-120			
Phenanthrene	2900	330	ug/kg	3330	ND	87	55-120			
Phenol	2350	330	ug/kg	3330	ND	71	40-120			
Pyrene	2670	330	ug/kg	3330	ND	80	50-120			
1,2,4-Trichlorobenzene	2010	330	ug/kg	3330	ND	60	45-120			
2,4,5-Trichlorophenol	2670	330	ug/kg	3330	ND	80	55-120			
2,4,6-Trichlorophenol	2540	330	ug/kg	3330	ND	76	40-120			
1,2-Diphenylhydrazine/Azobenzene	4400	330	ug/kg	3330	ND	132	60-120			M7
Surrogate: 2-Fluorophenol	4030		ug/kg	6670		60	25-120			
Surrogate: Phenol-d6	4640		ug/kg	6670		70	30-120			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Table with columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Data Qualifiers. Includes sections for Matrix Spike Analyzed and Matrix Spike Dup Analyzed.

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Matrix Spike Dup Analyzed: 05/26/04 (4E25044-MSD1)</b>					<b>Source: INE1411-02</b>					
3,3-Dichlorobenzidine	2710	830	ug/kg	3330	ND	81	20-170	8	25	
2,4-Dichlorophenol	2350	330	ug/kg	3330	ND	71	40-120	2	20	
Diethyl phthalate	3060	330	ug/kg	3330	ND	92	55-120	2	20	
2,4-Dimethylphenol	2070	330	ug/kg	3330	ND	62	35-120	3	25	
Dimethyl phthalate	2700	330	ug/kg	3330	ND	81	50-120	1	20	
4,6-Dinitro-2-methylphenol	1480	420	ug/kg	3330	ND	44	40-120	37	20	R-3
2,4-Dinitrophenol	1230	420	ug/kg	3330	ND	37	20-140	32	25	R
2,4-Dinitrotoluene	3110	330	ug/kg	3330	ND	93	55-140	2	20	
2,6-Dinitrotoluene	2930	330	ug/kg	3330	ND	88	55-125	2	20	
Di-n-octyl phthalate	3580	330	ug/kg	3330	ND	108	45-140	5	20	
Fluoranthene	3370	330	ug/kg	3330	ND	101	45-130	6	20	
Fluorene	2750	330	ug/kg	3330	ND	83	55-120	1	20	
Hexachlorobenzene	2630	330	ug/kg	3330	ND	79	35-120	2	25	
Hexachlorobutadiene	2160	330	ug/kg	3330	ND	65	40-120	8	20	
Hexachlorocyclopentadiene	1440	830	ug/kg	3330	ND	43	30-145	17	30	
Hexachloroethane	2130	330	ug/kg	3330	ND	64	40-120	5	20	
Indeno(1,2,3-cd)pyrene	2660	330	ug/kg	3330	ND	80	25-150	2	25	
Isophorone	2550	330	ug/kg	3330	ND	77	40-120	2	20	
2-Methylnaphthalene	2430	330	ug/kg	3330	ND	73	40-120	1	20	
2-Methylphenol	2410	330	ug/kg	3330	ND	72	40-120	4	20	
4-Methylphenol	2520	330	ug/kg	3330	ND	76	40-120	7	20	
Naphthalene	2500	330	ug/kg	3330	ND	75	40-120	3	20	
2-Nitroaniline	3420	330	ug/kg	3330	ND	103	55-130	1	20	
3-Nitroaniline	2710	330	ug/kg	3330	ND	81	40-140	4	25	
4-Nitroaniline	3450	830	ug/kg	3330	ND	104	40-160	7	20	
Nitrobenzene	2610	330	ug/kg	3330	ND	78	45-120	4	20	
2-Nitrophenol	2330	330	ug/kg	3330	ND	70	40-120	7	20	
4-Nitrophenol	2620	830	ug/kg	3330	ND	79	35-135	21	25	
N-Nitrosodiphenylamine	2890	330	ug/kg	3330	ND	87	55-120	1	20	
N-Nitroso-di-n-propylamine	2810	250	ug/kg	3330	ND	84	40-120	1	20	
Pentachlorophenol	2740	830	ug/kg	3330	ND	82	40-120	3	20	
Phenanthrene	2930	330	ug/kg	3330	ND	88	55-120	1	20	
Phenol	2330	330	ug/kg	3330	ND	70	40-120	1	20	
Pyrene	2640	330	ug/kg	3330	ND	79	50-120	1	20	
1,2,4-Trichlorobenzene	2090	330	ug/kg	3330	ND	63	45-120	4	20	

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E25044 Extracted: 05/25/04</b>										
<b>Matrix Spike Dup Analyzed: 05/26/04 (4E25044-MSD1)</b>					<b>Source: INE1411-02</b>					
2,4,5-Trichlorophenol	2820	330	ug/kg	3330	ND	85	55-120	5	20	
2,4,6-Trichlorophenol	2560	330	ug/kg	3330	ND	77	40-120	1	20	
1,2-Diphenylhydrazine/Azobenzene	4530	330	ug/kg	3330	ND	136	60-120	3	20	M7
Surrogate: 2-Fluorophenol	3930		ug/kg	6670		59	25-120			
Surrogate: Phenol-d6	4560		ug/kg	6670		68	30-120			
Surrogate: 2,4,6-Tribromophenol	5520		ug/kg	6670		83	35-120			
Surrogate: Nitrobenzene-d5	2410		ug/kg	3330		72	30-120			
Surrogate: 2-Fluorobiphenyl	2240		ug/kg	3330		67	35-120			
Surrogate: Terphenyl-d14	2610		ug/kg	3330		78	35-155			

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**METHOD BLANK/QC DATA**
**ORGANOCHLORINE PESTICIDES (EPA 8081A)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4F10096 Extracted: 05/24/04</b>										
<b>Blank Analyzed: 06/11/04 (4F10096-BLK1)</b>										
Aldrin	ND	6.2	ug/kg							
alpha-BHC	ND	6.2	ug/kg							
beta-BHC	ND	6.2	ug/kg							
delta-BHC	ND	12	ug/kg							
gamma-BHC (Lindane)	ND	6.2	ug/kg							
Chlordane	ND	62	ug/kg							
4,4'-DDD	ND	6.2	ug/kg							
4,4'-DDE	ND	6.2	ug/kg							
4,4'-DDT	ND	6.2	ug/kg							
Dieldrin	ND	6.2	ug/kg							
Endosulfan I	ND	6.2	ug/kg							
Endosulfan II	ND	6.2	ug/kg							
Endosulfan sulfate	ND	12	ug/kg							
Endrin	ND	6.2	ug/kg							
Endrin aldehyde	ND	6.2	ug/kg							
Endrin ketone	ND	6.2	ug/kg							
Heptachlor	ND	6.2	ug/kg							
Heptachlor epoxide	ND	6.2	ug/kg							
Methoxychlor	ND	6.2	ug/kg							
Toxaphene	ND	250	ug/kg							
Surrogate: Tetrachloro-m-xylene	12.6		ug/kg	16.7		75	35-115			
Surrogate: Decachlorobiphenyl	29.7		ug/kg	33.3		89	45-125			
<b>LCS Analyzed: 06/11/04 (4F10096-BS1)</b>										
Aldrin	2.60	6.2	ug/kg	3.33		78	50-115			<b>A-01</b>
alpha-BHC	2.63	6.2	ug/kg	3.33		79	55-115			
beta-BHC	3.72	6.2	ug/kg	3.33		112	55-115			
delta-BHC	2.70	12	ug/kg	3.33		81	60-115			
gamma-BHC (Lindane)	2.70	6.2	ug/kg	3.33		81	55-115			
4,4'-DDD	18.3	6.2	ug/kg	20.0		92	65-115			
4,4'-DDE	6.14	6.2	ug/kg	6.67		92	65-115			
4,4'-DDT	18.8	6.2	ug/kg	20.0		94	70-125			
Dieldrin	5.85	6.2	ug/kg	6.67		88	65-115			
Endosulfan I	5.34	6.2	ug/kg	6.67		80	60-115			
Endosulfan II	5.74	6.2	ug/kg	6.67		86	70-115			
Endosulfan sulfate	18.5	12	ug/kg	20.0		92	65-115			

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### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4F10096 Extracted: 05/24/04</b>										
<b>LCS Analyzed: 06/11/04 (4F10096-BS1)</b>										
Endrin	5.77	6.2	ug/kg	6.67		87	70-115			A-01
Endrin aldehyde	17.8	6.2	ug/kg	20.0		89	55-115			
Endrin ketone	19.5	6.2	ug/kg	20.0		98	65-115			
Heptachlor	2.96	6.2	ug/kg	3.33		89	50-115			
Heptachlor epoxide	2.93	6.2	ug/kg	3.33		88	60-115			
Methoxychlor	13.0	6.2	ug/kg	13.3		98	65-125			
Surrogate: Tetrachloro-m-xylene	11.2		ug/kg	13.3		84	35-115			
Surrogate: Decachlorobiphenyl	26.7		ug/kg	26.7		100	45-125			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20076 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/21/04 (4E20076-BLK1)</b>										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
<b>LCS Analyzed: 05/21/04 (4E20076-BS1)</b>										
Antimony	50.6	10	mg/kg	50.0		101	80-120			
Arsenic	48.6	2.0	mg/kg	50.0		97	80-120			
Barium	50.6	1.0	mg/kg	50.0		101	80-120			
Beryllium	49.7	0.50	mg/kg	50.0		99	80-120			
Cadmium	48.4	0.50	mg/kg	50.0		97	80-120			
Chromium	49.2	1.0	mg/kg	50.0		98	80-120			
Cobalt	50.4	1.0	mg/kg	50.0		101	80-120			
Copper	48.9	2.0	mg/kg	50.0		98	80-120			
Lead	49.2	2.0	mg/kg	50.0		98	80-120			
Molybdenum	50.2	2.0	mg/kg	50.0		100	80-120			
Nickel	48.4	2.0	mg/kg	50.0		97	80-120			
Selenium	43.8	2.0	mg/kg	50.0		88	80-120			
Silver	24.9	1.0	mg/kg	25.0		100	80-120			
Thallium	46.4	10	mg/kg	50.0		93	80-120			
Vanadium	51.0	1.0	mg/kg	50.0		102	80-120			
Zinc	47.1	5.0	mg/kg	50.0		94	80-120			

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20076 Extracted: 05/20/04</b>										
<b>Matrix Spike Analyzed: 05/21/04 (4E20076-MS1)</b>					<b>Source: INE0971-01</b>					
Antimony	23.1	10	mg/kg	50.0	ND	46	75-125			M2
Arsenic	53.0	2.0	mg/kg	50.0	6.0	94	75-125			
Barium	111	1.0	mg/kg	50.0	58	106	75-125			
Beryllium	49.8	0.50	mg/kg	50.0	0.44	99	75-125			
Cadmium	47.8	0.50	mg/kg	50.0	0.33	95	75-125			
Chromium	69.5	1.0	mg/kg	50.0	21	97	75-125			
Cobalt	55.0	1.0	mg/kg	50.0	5.3	99	75-125			
Copper	60.6	2.0	mg/kg	50.0	9.1	103	75-125			
Lead	56.5	2.0	mg/kg	50.0	8.5	96	75-125			
Molybdenum	48.6	2.0	mg/kg	50.0	0.34	97	75-125			
Nickel	63.4	2.0	mg/kg	50.0	15	97	75-125			
Selenium	43.7	2.0	mg/kg	50.0	ND	87	75-125			
Silver	24.9	1.0	mg/kg	25.0	ND	100	75-125			
Thallium	46.8	10	mg/kg	50.0	0.70	92	75-125			
Vanadium	90.6	1.0	mg/kg	50.0	37	107	75-125			
Zinc	94.2	5.0	mg/kg	50.0	46	96	75-125			
<b>Matrix Spike Dup Analyzed: 05/21/04 (4E20076-MSD1)</b>					<b>Source: INE0971-01</b>					
Antimony	23.1	10	mg/kg	50.0	ND	46	75-125	0	20	M2
Arsenic	52.2	2.0	mg/kg	50.0	6.0	92	75-125	2	20	
Barium	112	1.0	mg/kg	50.0	58	108	75-125	1	20	
Beryllium	49.0	0.50	mg/kg	50.0	0.44	97	75-125	2	20	
Cadmium	46.8	0.50	mg/kg	50.0	0.33	93	75-125	2	20	
Chromium	70.0	1.0	mg/kg	50.0	21	98	75-125	1	20	
Cobalt	54.0	1.0	mg/kg	50.0	5.3	97	75-125	2	20	
Copper	60.1	2.0	mg/kg	50.0	9.1	102	75-125	1	20	
Lead	55.6	2.0	mg/kg	50.0	8.5	94	75-125	2	20	
Molybdenum	47.6	2.0	mg/kg	50.0	0.34	95	75-125	2	20	
Nickel	62.3	2.0	mg/kg	50.0	15	95	75-125	2	20	
Selenium	43.6	2.0	mg/kg	50.0	ND	87	75-125	0	20	
Silver	24.6	1.0	mg/kg	25.0	ND	98	75-125	1	20	
Thallium	46.5	10	mg/kg	50.0	0.70	92	75-125	1	20	
Vanadium	90.5	1.0	mg/kg	50.0	37	107	75-125	0	20	
Zinc	95.6	5.0	mg/kg	50.0	46	99	75-125	1	20	

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Project ID: Ascon - Soils  
 SB0202/31  
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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20090 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/21/04 (4E20090-BLK1)</b>										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
<b>LCS Analyzed: 05/21/04 (4E20090-BS1)</b>										
Antimony	47.8	10	mg/kg	50.0		96	80-120			
Arsenic	47.5	2.0	mg/kg	50.0		95	80-120			
Barium	47.6	1.0	mg/kg	50.0		95	80-120			
Beryllium	47.0	0.50	mg/kg	50.0		94	80-120			
Cadmium	47.2	0.50	mg/kg	50.0		94	80-120			
Chromium	48.3	1.0	mg/kg	50.0		97	80-120			
Cobalt	46.5	1.0	mg/kg	50.0		93	80-120			
Copper	46.8	2.0	mg/kg	50.0		94	80-120			
Lead	48.9	2.0	mg/kg	50.0		98	80-120			
Molybdenum	47.0	2.0	mg/kg	50.0		94	80-120			
Nickel	47.4	2.0	mg/kg	50.0		95	80-120			
Selenium	45.8	2.0	mg/kg	50.0		92	80-120			
Silver	23.6	1.0	mg/kg	25.0		94	80-120			
Thallium	46.1	10	mg/kg	50.0		92	80-120			
Vanadium	46.8	1.0	mg/kg	50.0		94	80-120			
Zinc	46.8	5.0	mg/kg	50.0		94	80-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20090 Extracted: 05/20/04</b>										
<b>Matrix Spike Analyzed: 05/21/04 (4E20090-MS1)</b>					<b>Source: INE1119-04</b>					
Antimony	18.3	10	mg/kg	50.0	ND	37	75-125			M2
Arsenic	50.6	2.0	mg/kg	50.0	3.9	93	75-125			
Barium	177	1.0	mg/kg	50.0	130	94	75-125			
Beryllium	46.7	0.50	mg/kg	50.0	0.36	93	75-125			
Cadmium	46.4	0.50	mg/kg	50.0	0.48	92	75-125			
Chromium	64.7	1.0	mg/kg	50.0	15	99	75-125			
Cobalt	50.0	1.0	mg/kg	50.0	4.4	91	75-125			
Copper	68.3	2.0	mg/kg	50.0	18	101	75-125			
Lead	53.1	2.0	mg/kg	50.0	6.8	93	75-125			
Molybdenum	44.6	2.0	mg/kg	50.0	1.0	87	75-125			
Nickel	63.0	2.0	mg/kg	50.0	16	94	75-125			
Selenium	44.6	2.0	mg/kg	50.0	ND	89	75-125			
Silver	23.4	1.0	mg/kg	25.0	ND	94	75-125			
Thallium	43.4	10	mg/kg	50.0	0.49	86	75-125			
Vanadium	79.6	1.0	mg/kg	50.0	25	109	75-125			
Zinc	93.0	5.0	mg/kg	50.0	45	96	75-125			
<b>Matrix Spike Dup Analyzed: 05/21/04 (4E20090-MSD1)</b>					<b>Source: INE1119-04</b>					
Antimony	19.0	10	mg/kg	50.0	ND	38	75-125	4	20	M2
Arsenic	47.7	2.0	mg/kg	50.0	3.9	88	75-125	6	20	
Barium	161	1.0	mg/kg	50.0	130	62	75-125	9	20	M2
Beryllium	46.2	0.50	mg/kg	50.0	0.36	92	75-125	1	20	
Cadmium	46.1	0.50	mg/kg	50.0	0.48	91	75-125	1	20	
Chromium	61.2	1.0	mg/kg	50.0	15	92	75-125	6	20	
Cobalt	47.0	1.0	mg/kg	50.0	4.4	85	75-125	6	20	
Copper	64.6	2.0	mg/kg	50.0	18	93	75-125	6	20	
Lead	50.3	2.0	mg/kg	50.0	6.8	87	75-125	5	20	
Molybdenum	42.3	2.0	mg/kg	50.0	1.0	83	75-125	5	20	
Nickel	62.3	2.0	mg/kg	50.0	16	93	75-125	1	20	
Selenium	41.7	2.0	mg/kg	50.0	ND	83	75-125	7	20	
Silver	23.1	1.0	mg/kg	25.0	ND	92	75-125	1	20	
Thallium	41.5	10	mg/kg	50.0	0.49	82	75-125	4	20	
Vanadium	77.6	1.0	mg/kg	50.0	25	105	75-125	3	20	
Zinc	90.0	5.0	mg/kg	50.0	45	90	75-125	3	20	

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**METHOD BLANK/QC DATA**

**METALS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20115 Extracted: 05/20/04</b>										
<b>Blank Analyzed: 05/20/04 (4E20115-BLK1)</b>										
Mercury	ND	0.020	mg/kg							
<b>LCS Analyzed: 05/20/04 (4E20115-BS1)</b>										
Mercury	0.831	0.020	mg/kg	0.800		104	85-120			
<b>Matrix Spike Analyzed: 05/20/04 (4E20115-MS1)</b>										
					<b>Source: INE1253-02</b>					
Mercury	0.849	0.020	mg/kg	0.800	0.0082	105	65-135			
<b>Matrix Spike Dup Analyzed: 05/20/04 (4E20115-MSD1)</b>										
					<b>Source: INE1253-02</b>					
Mercury	0.861	0.020	mg/kg	0.800	0.0082	107	65-135	1	20	

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## METHOD BLANK/QC DATA

### ORGANIC LEAD BY GFAA (HML 939-M)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4F01072 Extracted: 06/01/04</b>										
<b>Blank Analyzed: 06/02/04 (4F01072-BLK1)</b>										
Organic Lead	ND	25	ug/kg							
<b>LCS Analyzed: 06/02/04 (4F01072-BS1)</b>										
Organic Lead	108	25	ug/kg	100		108	80-120			
<b>Matrix Spike Analyzed: 06/02/04 (4F01072-MS1)</b>										
Organic Lead	271	120	ug/kg	100	260	11	80-120			M2
<b>Matrix Spike Dup Analyzed: 06/02/04 (4F01072-MSD1)</b>										
Organic Lead	439	120	ug/kg	100	260	179	80-120	47	20	MI, R-3

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E20057 Extracted: 05/20/04</b>										
<b>Duplicate Analyzed: 05/20/04 (4E20057-DUP1)</b>										
pH	8.63	NA	pH Units		8.60			0	5	
<b>Batch: 4E24056 Extracted: 05/24/04</b>										
<b>Blank Analyzed: 05/24/04 (4E24056-BLK1)</b>										
Chromium VI	ND	0.20	mg/kg							
<b>LCS Analyzed: 05/24/04 (4E24056-BS1)</b>										
Chromium VI	4.31	0.20	mg/kg	5.00		86	65-110			
<b>Matrix Spike Analyzed: 05/24/04 (4E24056-MS1)</b>										
Chromium VI	0.0144	0.20	mg/kg	5.00	ND	0	55-110			M2
<b>Matrix Spike Dup Analyzed: 05/24/04 (4E24056-MSD1)</b>										
Chromium VI	0.0164	0.20	mg/kg	5.00	ND	0	55-110	13	20	M2
<b>Batch: 4E24068 Extracted: 05/24/04</b>										
<b>Blank Analyzed: 05/24/04 (4E24068-BLK1)</b>										
Oil & Grease	ND	5.0	mg/kg							
<b>LCS Analyzed: 05/24/04 (4E24068-BS1)</b>										
Oil & Grease	17.3	5.0	mg/kg	20.0		86	55-130			
<b>Matrix Spike Analyzed: 05/24/04 (4E24068-MS1)</b>										
Oil & Grease	15100	250	mg/kg	20.0	27000	-59500	35-130			M-HA

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E24068 Extracted: 05/24/04</b>										
<b>Matrix Spike Dup Analyzed: 05/24/04 (4E24068-MSD1)</b>					<b>Source: INE1148-01</b>					
Oil & Grease	20100	250	mg/kg	20.0	27000	-34500	35-130	28	25	M-HA, R-3

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**METHOD BLANK/QC DATA**

**Polychlorinated Biphenyls (as Aroclors) by EPA Method 8082**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4E24018 Extracted: 05/24/04</b>										
<b>Blank Analyzed: 05/26/04 (4E24018-BLK1)</b>										
PCB-1016	ND	20	ug/kg							C-06
PCB-1221	ND	80	ug/kg							
PCB-1232	ND	20	ug/kg							
PCB-1242	ND	20	ug/kg							
PCB-1248	ND	20	ug/kg							
PCB-1254	ND	20	ug/kg							
PCB-1260	ND	20	ug/kg							
PCB-1268	ND	20	ug/kg							
Surrogate: Tetrachloro-m-xylene	18.9		ug/kg	16.7		113	23-151			
Surrogate: Decachlorobiphenyl	38.8		ug/kg	33.3		117	26-142			
<b>LCS Analyzed: 05/26/04 (4E24018-BS1)</b>										
PCB-1260	80.5	20	ug/kg	83.3		97	47-126			C-06
Surrogate: Tetrachloro-m-xylene	14.8		ug/kg	16.7		89	23-151			
Surrogate: Decachlorobiphenyl	31.0		ug/kg	33.3		93	26-142			
<b>Matrix Spike Analyzed: 05/26/04 (4E24018-MS1)</b>										
					<b>Source: MNE0521-02</b>					
PCB-1260	66.6	20	ug/kg	83.3	ND	80	47-126			C-06
Surrogate: Tetrachloro-m-xylene	13.9		ug/kg	16.7		83	23-151			
Surrogate: Decachlorobiphenyl	27.8		ug/kg	33.3		84	26-142			
<b>Matrix Spike Dup Analyzed: 05/26/04 (4E24018-MSD1)</b>										
					<b>Source: MNE0521-02</b>					
PCB-1260	63.8	20	ug/kg	83.3	ND	77	47-126	4	37	C-06
Surrogate: Tetrachloro-m-xylene	13.3		ug/kg	16.7		80	23-151			
Surrogate: Decachlorobiphenyl	26.2		ug/kg	33.3		79	26-142			

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**GC CALIBRATION CHECK CRITERIA**

Per Method 8000B of SW-846, the percent recovery of the calibration checks for GC analyses must be within ± 15% from the true value for each individual compound or the average % recovery of all compounds in the calibration check solution must be within ± 15% recovery. Per Method 8000B, the end user is to be notified if the latter situation occurs.

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

<u>Compound</u>	<u>Footnote</u>	<u>Calibration Check % Recovery</u>	<u>Lab Number</u>	<u>Batch</u>
4,4'-DDD	1	140	INE1148-01	4F10096
4,4'-DDD	1	140	INE1148-02	4F10096
4,4'-DDT	2	15	INE1148-01	4F10096
4,4'-DDT	2	15	INE1148-02	4F10096
Endosulfan sulfate	2	82	INE1148-01	4F10096
Endosulfan sulfate	2	82	INE1148-02	4F10096
Endrin	2	83	INE1148-01	4F10096
Endrin	2	83	INE1148-02	4F10096
Endrin ketone	2	44	INE1148-01	4F10096
Endrin ketone	2	44	INE1148-02	4F10096
Heptachlor	2	62	INE1148-01	4F10096
Heptachlor	2	62	INE1148-02	4F10096
Methoxychlor	2	21	INE1148-01	4F10096
Methoxychlor	2	21	INE1148-02	4F10096

Footnotes:

- 1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.
- 2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result

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## DATA QUALIFIERS AND DEFINITIONS

- A-01** An MS/MSD was not reported with the batch because the unspiked source sample was not available. See LCS.
- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C-06** To reduce matrix interference, the sample extract has undergone TBA (sulfur) clean-up, method 3660B.
- C-1** Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form.
- C-2** Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form.
- L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M7** The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-05** The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- RL-1** Reporting limit raised due to sample matrix effects.
- RL-2** Reporting limit raised due to high concentrations of hydrocarbons.
- RL-4** Reporting limit raised due to insufficient sample volume.
- S08** The surrogate recovery for this sample is not available due to sample dilution which was required by high analyte concentration and/or matrix interference.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

### For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

### For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

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**Certification Summary**

**Del Mar Analytical, Irvine**

Method	Matrix	NELAP	CA
EPA 3545/8081A	Soil	X	X
EPA 413.2 MOD.	Soil	N/A	N/A
EPA 418.1	Soil	X	X
EPA 6010B	Soil	X	X
EPA 7199	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8015B MOD.	Soil	N/A	N/A
EPA 8260B	Soil-extr	X	X
EPA 8270C	Soil	X	X
EPA 9045C	Soil	X	X
HML 939-M	Soil		
SW846 7.1.2	Soil		
SW846 7.3.2.1	Soil		X

*NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

**Subcontracted Laboratories**

**Sequoia Analytical, Morgan Hill** CA ELAP Cert #1210 and AZ DHS Licence #01117CA

885 Jarvis Drive - Morgan Hill, CA 95037  
Method Performed: EPA 8082  
Samples: INE1148-01, INE1148-02

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Volatile Organic Compounds (VOCs) <sup>(1)</sup>	EPA 8260B	18
Semi-Volatile Organic Compounds (SVOCs)/ Polyaromatic Hydrocarbons (PAHs) <sup>(1)</sup>	EPA 8270C	18
Hexavalent Chromium <sup>(1)</sup>	EPA 7199	18
Organic Lead <sup>(1)</sup>	DHS Luft	18
Organochlorine Pesticides	EPA 8081	18
Polychlorinated bi-phenyls (PCBs)	EPA 8082	18
California Title 22 Metals <sup>(1)</sup>	EPA 6010B/7471A	18
Total Petroleum Hydrocarbons as Gasoline (TPHg) C6-C12, C13-C40	EPA 8015M	18
Total Recoverable Petroleum Hydrocarbons (TRPH)	EPA 418.1	18
Oil & Grease	EPA 413.2	18
Corrosivity	EPA 9045C Solid/9040 Liquid	18
Reactivity	SW 846 7.3.2.1	18
Ignitability	SW 846 7.1.2	18