

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site : J-2 Loop Project		Facility/site address: Adjacent to Mystic Avenue, Medford, MA and in Somerville, MA		
Location of facility/site : longitude: <u>42.42</u> latitude: <u>71.11</u>	Facility SIC code(s): 4922	Street: Along Mystic Avenue		
b) Name of facility/site owner : Algonquin Gas Transmission, LLC		Town: Medford		
Email address of owner: NLaBella@spectraenergy.com	Telephone no. of facility/site owner : (617) 560-1419	State: MA	Zip: 02155	County: Middlesex
Fax no. of facility/site owner : (617) 560-1360				
Address of owner (if different from site):		Owner is (check one): 1. Federal ☐ 2. State/Tribal ☐ 3. Private ☒ 4. other, if so, describe:		
Street: 890 Winter Street, Suite 300				
Town: Waltham	State: MA	Zip: 02451	County: Middlesex	
c) Legal name of operator : Algonquin Gas Transmission, LLC	Operator telephone no: (617) 560-1419			
	Operator fax no.: (617) 560-1360	Operator email: NLaBella@spectraenergy.com		
Operator contact name and title: Nikki La Bella, Environmental Project Manager				

Address of operator (if different from owner):	Street:		
Town:	State:	Zip:	County:
d) Check “yes” or “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes ☐ No ☒, if “yes,” number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes ☐ No ☒, if “yes,” date and tracking #: 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Yes ☒ No ☐ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No ☐			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☐ No ☒ If “yes,” please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:		f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y ☐ N ☒, if Y, number: 2. phase I or II construction storm water general permit? Y ☐ N ☒, if Y, number: 3. individual NPDES permit? Y ☐ N ☒, if Y, number: 4. any other water quality related permit? Y ☐ N ☒, if Y, number:	

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: The discharge will be the result of trench dewatering associated with a 14" pipeline installation in Medford and Somerville, MA. The areas associated with the dewatering will be along Mystic Avenue in Medford and Somerville and, Temple Street, Broadway, School Street, and Medford Street in Somerville. The groundwater will be treated as indicated prior to discharge.		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.44</u> Average flow <u>0.22</u> Is maximum flow a design value? Y ☒ N ☐ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Average flow is in units of cubic feet per second and is an estimate.
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>71.10</u> lat. <u>42.41</u> ; pt.2: long. _____ lat. _____; pt.3: long. _____ lat. _____; pt.4: long. _____ lat. _____; pt.5: long. _____ lat. _____; pt.6: long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8: long. _____ lat. _____; etc.		

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ☒ or seasonal ☐ ? Is discharge ongoing Yes ☐ No ☒ ?
c) Expected dates of discharge (mm/dd/yy): start _____ end _____	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only ☐	VOC Only ☐	Primarily Metals ☒	Urban Fill Sites ☐	Contaminated Sumps ☐	Mixed Contaminants ☐	Aquifer Testing ☐
Fuel Oils (and Other Oils) only ☐	VOC with Other Contaminants ☒	Petroleum with Other Contaminants ☐	Listed Contaminated Sites ☐	Contaminated Dredge Condensates ☐	Hydrostatic Testing of Pipelines/Tanks ☐	Well Development or Rehabilitation ☐

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	☒	☐	1	grab	2540D	2000	NA	0	NA	0
2. Total Residual Chlorine	☒	☐	1	grab	4500	0.01	ND	0	ND	0
3. Total Petroleum Hydrocarbons	☒	☐	1	grab	3510C	0.2	ND	0	ND	0
4. Cyanide	☒	☐	1	grab	4500	0.01	ND	0	ND	0
5. Benzene	☒	☐	1	grab	8260B	1.0	ND	0	ND	0
6. Toluene	☒	☐	1	grab	8260B	5.0	ND	0	ND	0
7. Ethylbenzene	☒	☐	1	grab	8260B	5	ND	0	ND	0
8. (m,p,o) Xylenes	☒	☐	1	grab	8260B	10.0	ND	0	ND	0
9. Total BTEX ⁴	☒	☐	1	grab	8260B	10.0	ND	0	ND	0

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓	☐	1	grab	8260	0.5	ND	0	ND	0
11. Methyl-tert-Butyl Ether (MtBE)	☐	✓	1	grab	8260B	1.0	1860	1.01243	1860	0.50621
12. tert-Butyl Alcohol (TBA)	☐	✓	1	grab	8260B	10.0	51.3	0.02792	51.3	0.01396
13. tert-Amyl Methyl Ether (TAME)	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
14. Naphthalene	✓	☐	1	grab	8270C	5.0	ND	0	ND	0
15. Carbon Tetra-chloride	✓	☐	0							
16. 1,4 Dichlorobenzene	✓	☐	1	grab	8270C	5.38	ND	0	ND	0
17. 1,2 Dichlorobenzene	✓	☐	1	grab	8270C	5.38	ND	0	ND	0
18. 1,3 Dichlorobenzene	✓	☐	1	grab	8270C	5.38	ND	0	ND	0
19. 1,1 Dichloroethane	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
20. 1,2 Dichloroethane	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
21. 1,1 Dichloroethylene	✓	☐	1	grab	8260B	10.0	ND	0	ND	0
22. cis-1,2 Dichloro-ethylene	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
23. Dichloromethane (Methylene Chloride)	✓	☐	1	grab	8260B	5.0	ND	0	ND	0
24. Tetrachloroethylene	✓	☐	1	grab	8260B	5.0	ND	0	ND	0

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
26. 1,1,2 Trichloroethane	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
27. Trichloroethylene	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
28. Vinyl Chloride	✓	☐	1	grab	8260B	1.0	ND	0	ND	0
29. Acetone	☐	✓	1	grab	8260B	10.0	11.1	0.0060	11.1	0.00302
30. 1,4 Dioxane	✓	☐	1	grab	8260B	20.0	ND	0	ND	0
31. Total Phenols	✓	☐	1	grab	8270	5.38	ND	0	ND	0
32. Pentachlorophenol	✓	☐	1	grab	8270	21.5	ND	0	ND	0
33. Total Phthalates ⁵ (Phthalate esthers)	✓	☐	1	grab	8270	5.38	ND	0	ND	0
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓	☐	1	grab	8270	5.38	ND	0	ND	0
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓	☐	1	grab	8270	5.38	ND	0	ND	0
a. Benzo(a) Anthracene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
b. Benzo(a) Pyrene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
c. Benzo(b)Fluoranthene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
d. Benzo(k) Fluoranthene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
e. Chrysene	✓	☐	1	grab	8270	5.38	ND	0	ND	0

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
g. Indeno(1,2,3-cd) Pyrene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓	☐	1	grab	8270	5.38	ND	0	ND	0
h. Acenaphthene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
i. Acenaphthylene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
j. Anthracene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
k. Benzo(ghi) Perylene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
l. Fluoranthene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
m. Fluorene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
n. Naphthalene-	✓	☐	1	grab	8270	5.38	ND	0	ND	0
o. Phenanthrene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
p. Pyrene	✓	☐	1	grab	8270	5.38	ND	0	ND	0
37. Total Polychlorinated Biphenyls (PCBs)	✓	☐	1	grab	8082	0.250	ND	0	ND	0
38. Antimony	✓	☐	0							
39. Arsenic	☐	✓	1	grab	6010B	4.0	85.8	0.093	85.8	0.047
40. Cadmium	☐	✓	1	grab	6010B	2.5	4.8	5.2E-3	4.8	2.6E-3
41. Chromium III	✓	☐	0							
42. Chromium VI	☐	✓	1	grab	6010B	5.0	336.0	0.366	336.0	0.183

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓	☐	0							
44. Lead	☐	✓	1	grab	6010B	7.5	115.0	0.125	115.0	0.063
45. Mercury	✓	☐	1	grab	200	0.2	ND	0	ND	0
46. Nickel	✓	☐	0							
47. Selenium	✓	☐	1	grab	6010B	15.0	ND	0	ND	0
48. Silver	☐	✓	1	grab	6010B	5.0	7.9	0.008	7.9	0.004
49. Zinc	✓	☐	0							
50. Iron	☐	✓	1	grab	6010B	15.0	1530	0.125	1530	0.063
Other (describe):	☐	☐								

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ☒ N ☐	If yes, which metals? Iron, Silver, Lead, Arsenic, Cadmium and Chromium
Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>Arsenic, Cadmium, Chromium, Silver, Iron, Lead</u> DF: <u>8.2</u>	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☒ N ☐ If "Yes," list which metals: Arsenic, Cadmium, Chromium, Silver, Iron, Lead

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system: System will consist of groundwater recovery via VAC trucks or submersible centrifugal pumps. Recovered water will be directed through an influent weir tank (for metals precipitation) and an equalization tank, appropriately sized bag filters (for particulate removal) and up to 3 appropriately sized liquid phase carbon vessels prior to being discharged into the indicated catch basin						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper ☐	Oil/water separator ☐	Equalization tanks ✓	Bag filter ✓	GAC filter ✓
	Chlorination ☐	Dechlorination ☐	Other (please describe):			
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>100</u> Maximum flow rate of treatment system <u>200</u> Design flow rate of treatment system <u>200</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): Caustic - to raise pH of the water Peroxide - to oxidize cyanide as necessary HCl - to recorrect pH to desired range of 6.5 to 8.8 S.U.						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct ☐	Within facility ☐	Storm drain ☒	River/brook ☐	Wetlands ☒	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: The ground water will be pumped from the excavation trench into vacuum tanker trucks. The trucks will transport the water to the treatment system that will be located at a project staging area. The water will be treated and discharged to a catch basin along the route that discharges to the Mystic River.						

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water B,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 3.37 cfs

Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☒ No ☐ If yes, for which pollutant(s)?

Metals, Nutrients and Pathogens

Is there a TMDL? Yes ☐ No ☒ If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ☐ No ☒

Has any consultation with the federal services been completed? ☐ No ☒ or is consultation underway? Yes ☐ No ☒

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a "no jeopardy" opinion? ☐ or written concurrence ☐ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?

Yes ☐ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ☒

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

1. The 7Q10 was calculated using Streamstats off the EPA's website. The map and streamflow data print out are attached. The calculator was based on using the Mystic River as an absolute outfall location. AECOM is requesting clarification as to whether this was an acceptable assumption considering that multiple discharge locations may be utilized along the route shown on Figure 1.1-1 that may have different outfall locations along the Mystic River.
2. Concentrations entered in the permit are "worst case" or highest values of all ground water data.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

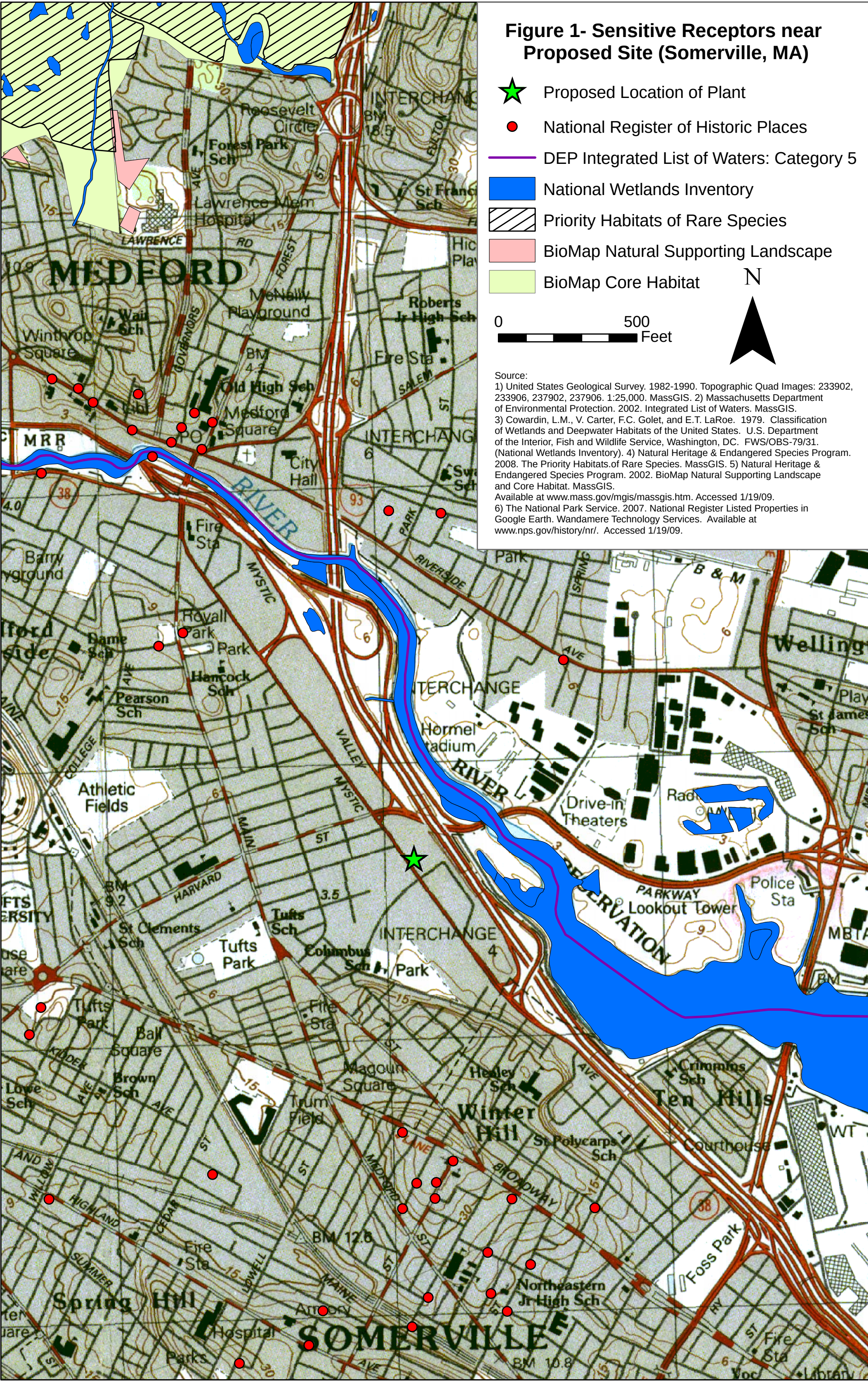
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

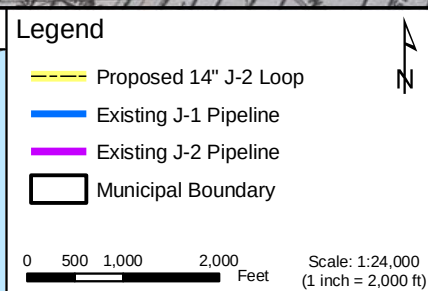
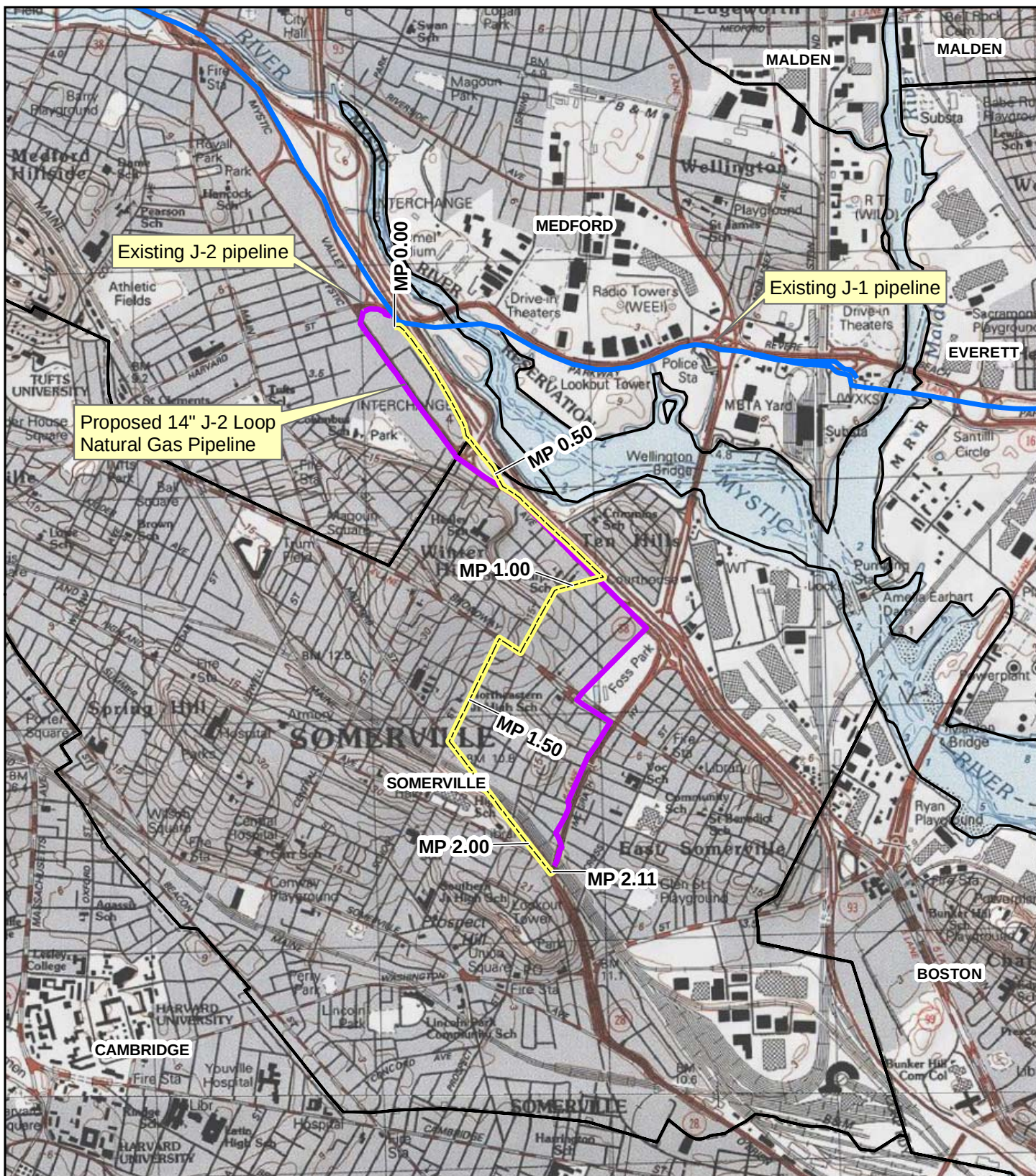
Facility/Site Name: J-2 Loop Project

Operator signature: 

Title: Environmental Project Manager

Date: 2/27/09





Algonquin Gas Transmission, LLC

J-2 Loop Project

Overview Map

Image Source: USGS 24k Topographic Quadrangles:
Boston North and Boston South, MA.
Map Projection: State Plane MA Mainland, NAD83, US Feet.

Spectra Energy

ENSR | AECOM

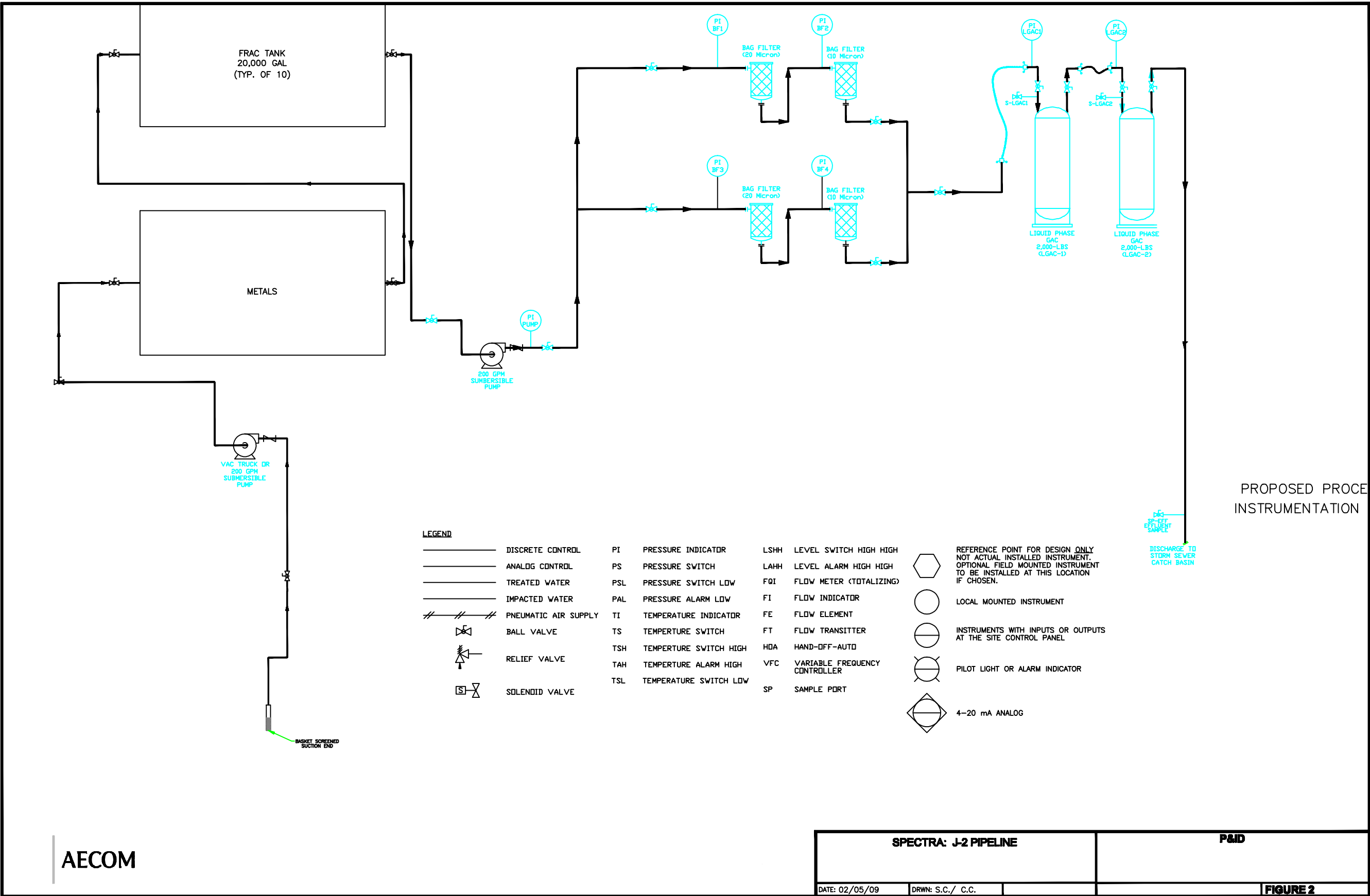
Figure 1.1-1

Date: March 2008

Project #: 02355-159

Y:\Projects\Spectra\J-2_Pipeline_Project\MXD\FERC\RR1\Figure_1.1-1_J-2_Loop_Overview_topo.mxd

File: J:\Northboro\PIPELINE\Spectra J-2 ISC folder\RGPI\RGPI application and attachments\CADD\PID.dwg Layout: ANSL-BI-CP User: CharrierC Plotted: Feb 12, 2009 - 11:31am Xref's:





Streamstats Ungaged Site Report

Date: Wed Jan 28 2009 11:24:22

Site Location: Massachusetts

NAD83 Latitude: 42.4103 (42 24 36)

NAD83 Longitude: -71.1022 (-71 06 07)

NAD27 Latitude: 42.4102 (42 24 36)

NAD27 Longitude: -71.1027 (-71 06 09)

Drainage Area: 0.75 mi²

Peak Flow Basin Characteristics			
100 % Statewide Low Flow (0.75 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.75 (below min value 1.61)	1.61	149
Mean Basin Slope from 250K DEM (percent)	1.52	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	26.3 (above max value 1.29)	0	1.29
Massachusetts Region (dimensionless)	0	0	1

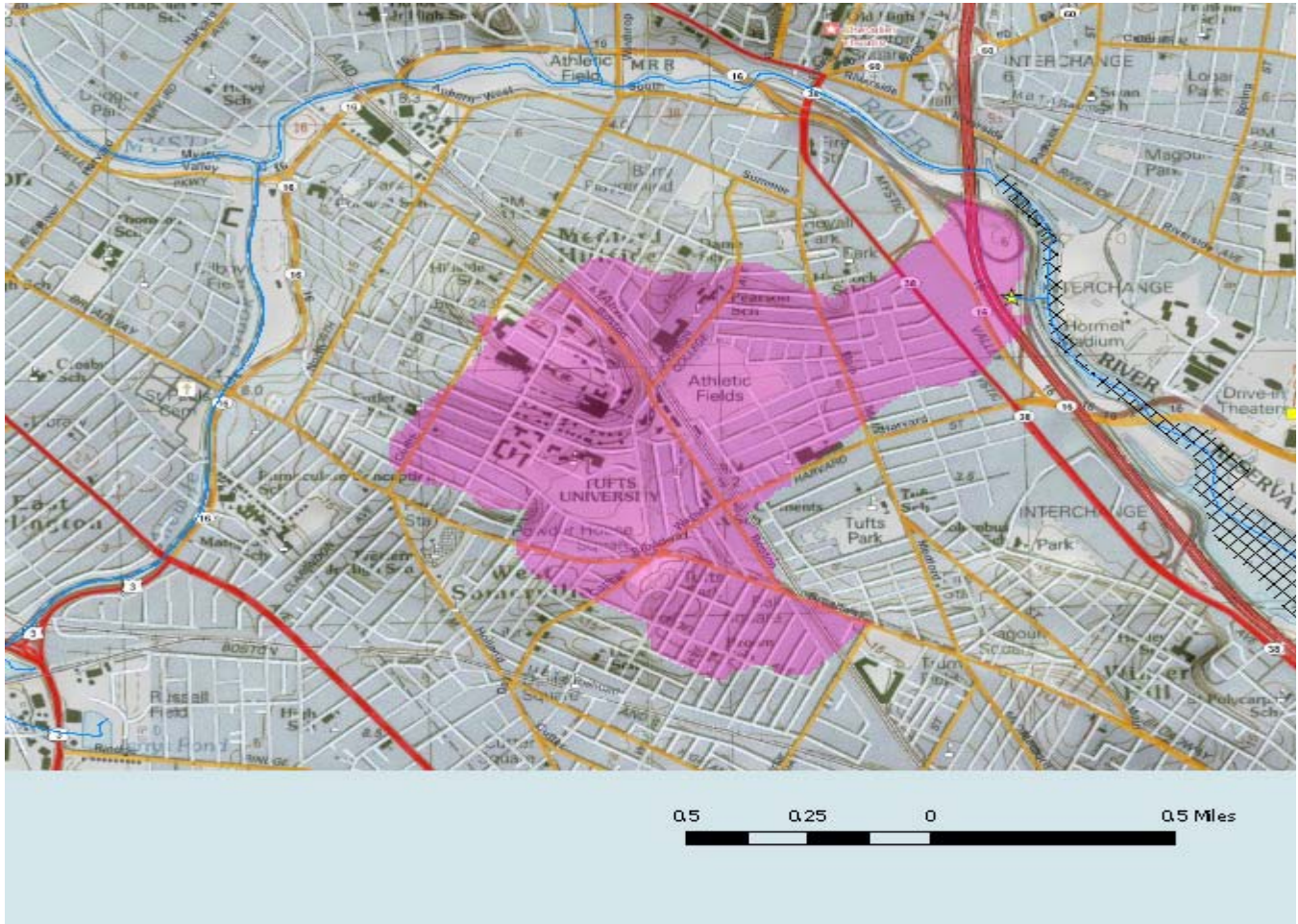
Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	0.71				
D60	0.84				
D70	1.44				
D75	1.53				
D80	3.91				
D85	3.42				
D90	7.15				
D95	3.95				
D98	2.9				
D99	2.18				

M7D2Y	2.32				
AUGD50	3.78				
M7D10Y	3.37				



StreamStats Print Page



1/28/2009 11:26:50 AM

Report Date:
22-Sep-08 17:21



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

ENSR Corporation
2 Technology Park Drive
Westford, MA 01886-3140
Attn: Cheryl Cormier

Project: Spectra -J-2 - Medford, MA
Project 02355-159

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA84228-01	SB-2	Soil	05-Sep-08 11:00	08-Sep-08 17:55
SA84228-02	SB-18	Soil	05-Sep-08 13:30	08-Sep-08 17:55
SA84228-03	SB-2 (10)	Soil	05-Sep-08 11:00	08-Sep-08 17:55
SA84228-04	SB-2 (20)	Soil	05-Sep-08 11:00	08-Sep-08 17:55
SA84228-05	SB-18 (10)	Soil	05-Sep-08 13:30	08-Sep-08 17:55
SA84228-06	SB-18 (20)	Soil	05-Sep-08 13:30	08-Sep-08 17:55
SA84228-07	SB-2	Ground Water	05-Sep-08 11:00	08-Sep-08 17:55
SA84228-08	Trip Blank	Aqueous	05-Sep-08 00:00	08-Sep-08 17:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 107 pages of analytical data plus Chain of Custody document(s).

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 3.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

+MADEP VPH 5/2004 Rev. 1.1**Laboratory Control Samples:**

8091173-BSD1

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.

Methyl tert-butyl ether

ASTM D 1293-99B**Samples:**

SA84228-07 SB-2

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for pH is not specified within the method other than to state that the samples should be analyzed as soon as possible.

pH

SW 846 8260B

Laboratory Control Samples:

8090601-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

8090601-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

Analyte out of acceptance range.

1,2,4-Trichlorobenzene

1,3,5-Trichlorobenzene

Carbon disulfide

Hexachlorobutadiene

Naphthalene

n-Butylbenzene

trans-1,4-Dichloro-2-butene

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

trans-1,2-Dichloroethene

8090724-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

2-Butanone (MEK)

Ethyl tert-butyl ether

Analyte out of acceptance range.

Acetone

Ethanol

Tert-amyl methyl ether

Tert-Butanol / butyl alcohol

8090724-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

2-Butanone (MEK)

Ethyl tert-butyl ether

Analyte out of acceptance range.

Methyl tert-butyl ether

RPD out of acceptance range.

Acetone

Tert-Butanol / butyl alcohol

8090855-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Tert-Butanol / butyl alcohol

SW 846 8260B**Laboratory Control Samples:**

8090855-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Tert-Butanol / butyl alcohol

Spikes:8090601-MS1 *Source: SA84189-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Benzene

Trichloroethene

8090601-MSD1 *Source: SA84189-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Benzene

Trichloroethene

Samples:SA84228-01 *SB-2*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

1,2-Dichloroethane-d4

SA84228-02 *SB-18*

The production of Acetone and other ketones is commonly seen when using the SW 846 5035A extraction technique.

Acetone

SW846 1010**Duplicates:**8091242-DUP1 *Source: SA84620-01*

> 200

Flashpoint

Samples:SA84228-01 *SB-2*

> 200

Flashpoint

SA84228-02 *SB-18*

> 200

Flashpoint

SW846 1311/6010B

SW846 1311/6010B**Duplicates:**8091132-DUP1 *Source: SA84464-02*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Selenium

SW846 1311/8260B**Laboratory Control Samples:**

8091253-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Vinyl chloride

8091253-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Vinyl chloride

SW846 6010B**Spikes:**8091148-MS1 *Source: SA84369-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Iron

8091148-MSD1 *Source: SA84369-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Iron

8091148-PS1 *Source: SA84369-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Iron

Duplicates:8091148-DUP1 *Source: SA84228-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Cadmium

Chromium

Iron

SW846 8270C

SW846 8270C

Duplicates:

8090582-DUP1 *Source: SA84217-08*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

2,4,6-Tribromophenol

8091025-DUP1 *Source: SA84450-15*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

Benzo (a) anthracene
Benzo (a) pyrene
Benzo (k) fluoranthene
Chrysene
Fluoranthene
Phenanthrene
Pyrene

Samples:

SA84228-07 *SB-2*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Phenol-d5

SW846 9012A / EPA 335.4

Duplicates:

8091197-DUP1 *Source: SA84415-01*

Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results

SW846 9045C

Samples:

SA84228-01 *SB-2*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for pH is not specified within the method other than to state that the samples should be analyzed as soon as possible.

pH

SA84228-02 *SB-18*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for pH is not specified within the method other than to state that the samples should be analyzed as soon as possible.

pH

SW846 Ch. 7.3

Duplicates:

8090677-DUP1 *Source: SA84214-01*

The RPD value for the sample duplicate or MS/MSD was outside the QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

Reactive Sulfide

Sample Identification

SB-2

SA84228-01

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
	TCLP Extraction	Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091100	
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	09-Sep-08	09-Sep-08	8090600	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.39 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	6.2	1	SW 846 8260B	10-Sep-08	11-Sep-08	8090724	
67-64-1	Acetone	BRL		µg/kg dry	62.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.2	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.2	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	12.4	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	62.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	31.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	12.4	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.2	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	12.4	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.2	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.2	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	12.4	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.2	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	12.4	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.2	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.2	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.2	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.2	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.2	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.2	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.2	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.2	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.2	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.2	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	62.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.2	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	62.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	62.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-2

SA84228-01

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.39 g					
91-20-3	Naphthalene	BRL		µg/kg dry	6.2	1	SW 846 8260B	10-Sep-08	11-Sep-08	8090724	
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
100-42-5	Styrene	BRL		µg/kg dry	6.2	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.2	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.2	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.2	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.2	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.2	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	12.4	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.2	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	62.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	62.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	124	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	31.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2480	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	90		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	131	SGC	70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	111		70-130 %			"	"	"	"	
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
71-43-2	Benzene	BRL		µg/l	5.0	5	SW846 1311/8260B	17-Sep-08	17-Sep-08	8091253	
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	102		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99		70-130 %			"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-2

SA84228-01

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
17060-07-0	1,2-Dichloroethane-d4	92			70-130 %		SW846 1311/8260B	17-Sep-08	17-Sep-08	8091253	
1868-53-7	Dibromofluoromethane	97			70-130 %		"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 15.71 g					
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.953	50	MADEP VPH 5/2004 Rev. 1.1	16-Sep-08	16-Sep-08	8091173	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.318	50	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/kg dry	0.318	50	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.953	50	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.318	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 15.71 g					
71-43-2	Benzene	BRL		µg/kg dry	63.6	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	63.6	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	63.6	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	63.6	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	63.6	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	127	50	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	63.6	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	107			70-130 %		"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	91			70-130 %		"	"	"	"	
Semivolatile Organic Compounds by GCMS											
	TCLP Extraction	Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091097	
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	376	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
208-96-8	Acenaphthylene	BRL		µg/kg dry	376	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	376	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	376	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	376	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	376	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	376	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	376	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	376	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	376	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	376	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	376	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	376	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	376	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	376	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	376	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	376	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	376	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	376	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	376	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	376	1	"	"	"	"	

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Sample Identification

SB-2

SA84228-01

Client Project #

02355-159

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	376	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	376	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	376	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	376	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	376	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	376	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	376	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	376	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	376	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	376	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	376	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	376	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	376	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	376	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	376	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	376	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	376	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	376	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	376	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	376	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	376	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	376	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	376	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	376	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	376	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	376	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	376	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	376	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1510	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	376	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1510	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	376	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	376	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	376	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	376	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	376	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	376	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	376	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/kg dry	376	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	376	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	376	1	"	"	"	"	

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SA84228-01

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Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	376	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	376	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	86		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	86		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	78		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	89		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	81		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	94		15-110 %			"	"	"	"	
<u>TCLP Semivolatiles by SW846 1311/8270C (TCL)</u>											
Prepared by method SW846 3535											
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	SW846 1311/8270C	16-Sep-08	16-Sep-08	8091128	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	76		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	81		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	78		30-130 %			"	"	"	"	
1718-51-0	Terphenyl-d14	68		30-130 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
TCLP Extraction		Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091094	
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.080	1	SW846 1311/8081A	16-Sep-08	17-Sep-08	8091129	
76-44-8	Heptachlor	BRL		µg/l	0.080	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.080	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.080	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.080	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.080	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.400	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	57		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	67		30-150 %			"	"	"	"	
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.9	1	SW846 8082	16-Sep-08	17-Sep-08	8091122	

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Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
11104-28-2	PCB 1221	BRL		µg/kg dry	21.9	1	SW846 8082	16-Sep-08	17-Sep-08	8091122	
11141-16-5	PCB 1232	BRL		µg/kg dry	21.9	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	21.9	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	21.9	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	21.9	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/kg dry	21.9	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/kg dry	21.9	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	21.9	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	67		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	70		30-150 %			"	"	"	"	
<u>TCLP Herbicides by SW846 1311/8151A</u>											
Prepared by method SW846 3535											
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	SW846 1311/8151A	16-Sep-08	16-Sep-08	8091130	
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.2	1	MADEP EPH 5/2004 R	15-Sep-08	16-Sep-08	8091021	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	75.8	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	75.8	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	75.8	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	75.8	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	75.8	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	75.8	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	75.8	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	75.8	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	75.8	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	75.8	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	75.8	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	75.8	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	75.8	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	75.8	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	75.8	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	75.8	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	75.8	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	59		40-140 %			"	"	"	"	

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Extractable Petroleum Hydrocarbons											
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
84-15-1	Ortho-Terphenyl	42		40-140 %			MADEP EPH 5/2004 R	15-Sep-08	16-Sep-08	8091021	
321-60-8	2-Fluorobiphenyl	132		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	15.2	1	+SW846 8100Mod.	15-Sep-08	16-Sep-08	8091022	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	15.2	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	15.2	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	15.2	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	15.2	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	15.2	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Hydraulic Oil	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Dielectric Fluid	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	15.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	15.2	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	59		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.70	1	SW846 6010B	17-Sep-08	18-Sep-08	8091148	
7440-38-2	Arsenic	BRL		mg/kg dry	1.70	1	"	"	19-Sep-08	"	
7440-39-3	Barium	28.8		mg/kg dry	1.14	1	"	"	18-Sep-08	"	
7440-43-9	Cadmium	BRL		mg/kg dry	0.568	1	"	"	"	"	
7440-47-3	Chromium	21.2		mg/kg dry	1.14	1	"	"	"	"	
7439-89-6	Iron	13,700		mg/kg dry	4.54	1	"	"	"	"	
7439-97-6	Mercury	0.802		mg/kg dry	0.0346	1	SW846 7471A	"	18-Sep-08	8091149	
7439-92-1	Lead	8.78		mg/kg dry	1.70	1	SW846 6010B	"	18-Sep-08	8091148	
7782-49-2	Selenium	BRL		mg/kg dry	1.70	1	"	"	19-Sep-08	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
<u>TCLP Extraction for Metals</u>											
Prepared by method SW846 1311											
	TCLP Extraction	Completed		N/A		1	SW846 1311	12-Sep-08	12-Sep-08	8090991	
<u>Re-analysis of TCLP Extraction for Metals</u>											
	TCLP Extraction	Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091088	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1311/6010B	16-Sep-08	17-Sep-08	8091132	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.338		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1311/7470A	19-Sep-08	22-Sep-08	8091459	
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1311/6010B	16-Sep-08	17-Sep-08	8091132	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	86.1		%		1	SM2540 G Mod.	15-Sep-08	15-Sep-08	8091086	
57-12-5	Cyanide (total)	BRL		mg/kg dry	1.10	1	SW846 9012A / EPA 335.4	15-Sep-08	16-Sep-08	8091115	
Toxicity Characteristics											
	Flashpoint	> 200		°F		1	SW846 1010	17-Sep-08	17-Sep-08	8091242	

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Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Toxicity Characteristics											
	pH	7.55	pHHT	pH Units		1	SW846 9045C	09-Sep-08 14:03	09-Sep-08 14:50	8090653	
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/kg dry		1	SW846 Ch. 7.3	10-Sep-08	10-Sep-08	8090727	
	Reactive Cyanide	BRL		mg/kg dry	25.0	1	"	"	"	"	
	Reactive Sulfide	BRL		mg/kg dry	50.0	1	"	"	"	"	

Sample Identification

SB-18

SA84228-02

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 13:30

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
	TCLP Extraction	Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091100	
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	09-Sep-08	09-Sep-08	8090600	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.86 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	6.8	1	SW 846 8260B	10-Sep-08	11-Sep-08	8090724	
67-64-1	Acetone	121	VOC6	µg/kg dry	68.2	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.8	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.8	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	13.6	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	68.2	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	34.1	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	13.6	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.8	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	13.6	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	13.6	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.8	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	13.6	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.8	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	68.2	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	68.2	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	68.2	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-18

SA84228-02

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 13:30

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.86 g					
91-20-3	Naphthalene	BRL		µg/kg dry	6.8	1	SW 846 8260B	10-Sep-08	11-Sep-08	8090724	
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
100-42-5	Styrene	BRL		µg/kg dry	6.8	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.8	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.8	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.8	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	13.6	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.8	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	68.2	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	68.2	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	136	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	34.1	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2730	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	79		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	126		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	110		70-130 %			"	"	"	"	
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
71-43-2	Benzene	BRL		µg/l	5.0	5	SW846 1311/8260B	17-Sep-08	17-Sep-08	8091253	
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	100		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %			"	"	"	"	

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Sample Identification

SB-18

SA84228-02

Client Project #

02355-159

Matrix

Soil

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05-Sep-08 13:30

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08-Sep-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
17060-07-0	1,2-Dichloroethane-d4	91		70-130 %			SW846 1311/8260B	17-Sep-08	17-Sep-08	8091253	
1868-53-7	Dibromofluoromethane	96		70-130 %			"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.67 g					
C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	1.02	50	MADEP VPH 5/2004 Rev. 1.1	16-Sep-08	17-Sep-08	8091173	
C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.339	50	"	"	"	"	
C9-C10 Aromatic Hydrocarbons	BRL			mg/kg dry	0.339	50	"	"	"	"	
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	1.02	50	"	"	"	"	
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.339	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.67 g					
71-43-2	Benzene	BRL		µg/kg dry	67.9	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	67.9	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	67.9	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	67.9	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	67.9	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	136	50	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	67.9	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	108		70-130 %			"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	95		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
TCLP Extraction	Completed			N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091097	
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	385	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
208-96-8	Acenaphthylene	BRL		µg/kg dry	385	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	385	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	385	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	385	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	385	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	385	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	665		µg/kg dry	385	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	810		µg/kg dry	385	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	632		µg/kg dry	385	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	476		µg/kg dry	385	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	654		µg/kg dry	385	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	385	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	385	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	385	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	385	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	385	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	385	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	385	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	385	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	385	1	"	"	"	"	

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* Reportable Detection Limit

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Sample Identification

SB-18

SA84228-02

Client Project #

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Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	385	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	385	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	385	1	"	"	"	"	
218-01-9	Chrysene	659		µg/kg dry	385	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	385	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	385	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	385	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	385	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	385	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	385	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	385	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	385	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	385	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	385	1	"	"	"	"	
206-44-0	Fluoranthene	1,020		µg/kg dry	385	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	385	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	385	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	385	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	385	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	491		µg/kg dry	385	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	385	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	385	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	385	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	385	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	385	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	385	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	385	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	385	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1540	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	385	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1540	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	385	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	385	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	385	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	385	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	385	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	385	1	"	"	"	"	
129-00-0	Pyrene	910		µg/kg dry	385	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/kg dry	385	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	385	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	385	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-18

SA84228-02

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

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Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	385	1	SW846 8270C	15-Sep-08	16-Sep-08	8091025	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	385	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	80		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	84		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	75		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	87		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	78		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	89		15-110 %			"	"	"	"	
<u>TCLP Semivolatiles by SW846 1311/8270C (TCL)</u>											
Prepared by method SW846 3535											
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	SW846 1311/8270C	16-Sep-08	16-Sep-08	8091128	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	75		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	82		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	82		30-130 %			"	"	"	"	
1718-51-0	Terphenyl-d14	67		30-130 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
TCLP Extraction		Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091094	
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.080	1	SW846 1311/8081A	16-Sep-08	17-Sep-08	8091129	
76-44-8	Heptachlor	BRL		µg/l	0.080	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.080	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.080	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.080	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.080	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.400	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	69		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	83		30-150 %			"	"	"	"	
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	22.5	1	SW846 8082	16-Sep-08	17-Sep-08	8091122	

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Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
11104-28-2	PCB 1221	BRL		µg/kg dry	22.5	1	SW846 8082	16-Sep-08	17-Sep-08	8091122	
11141-16-5	PCB 1232	BRL		µg/kg dry	22.5	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	22.5	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	22.5	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	22.5	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/kg dry	22.5	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/kg dry	22.5	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	22.5	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	69		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	74		30-150 %			"	"	"	"	
<u>TCLP Herbicides by SW846 1311/8151A</u>											
Prepared by method SW846 3535											
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	SW846 1311/8151A	16-Sep-08	16-Sep-08	8091130	
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.6	1	MADEP EPH 5/2004 R	15-Sep-08	16-Sep-08	8091021	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.6	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	23.6		mg/kg dry	15.6	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	28.8		mg/kg dry	15.6	1	"	"	"	"	
	Total Petroleum Hydrocarbons	23.6		mg/kg dry	15.6	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	28.8		mg/kg dry	15.6	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	77.6	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	77.6	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	77.6	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	77.6	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	77.6	1	"	"	"	"	
85-01-8	Phenanthrene	198		µg/kg dry	77.6	1	"	"	"	"	
120-12-7	Anthracene	87.9		µg/kg dry	77.6	1	"	"	"	"	
206-44-0	Fluoranthene	698		µg/kg dry	77.6	1	"	"	"	"	
129-00-0	Pyrene	663		µg/kg dry	77.6	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	495		µg/kg dry	77.6	1	"	"	"	"	
218-01-9	Chrysene	453		µg/kg dry	77.6	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	506		µg/kg dry	77.6	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	487		µg/kg dry	77.6	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	649		µg/kg dry	77.6	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	371		µg/kg dry	77.6	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	77.6	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	444		µg/kg dry	77.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	71		40-140 %			"	"	"	"	

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Matrix

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Extractable Petroleum Hydrocarbons											
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
84-15-1	Ortho-Terphenyl	49		40-140 %			MADEP EPH 5/2004 R	15-Sep-08	16-Sep-08	8091021	
321-60-8	2-Fluorobiphenyl	132		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	15.5	1	+SW846 8100Mod.	15-Sep-08	16-Sep-08	8091022	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	15.5	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	15.5	1	"	"	"	"	
68553-00-4	Fuel Oil #6	Calculated as		mg/kg dry	15.5	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	15.5	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	15.5	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	15.5	1	"	"	"	"	
	Hydraulic Oil	BRL		mg/kg dry	15.5	1	"	"	"	"	
	Dielectric Fluid	BRL		mg/kg dry	15.5	1	"	"	"	"	
	Unidentified	28.8		mg/kg dry	15.5	1	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	15.5	1	"	"	"	"	
	Total Petroleum Hydrocarbons	28.8		mg/kg dry	15.5	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	71		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.58	1	SW846 6010B	17-Sep-08	18-Sep-08	8091148	
7440-38-2	Arsenic	3.45		mg/kg dry	1.58	1	"	"	19-Sep-08	"	
7440-39-3	Barium	19.2		mg/kg dry	1.05	1	"	"	18-Sep-08	"	
7440-43-9	Cadmium	0.662		mg/kg dry	0.525	1	"	"	"	"	
7440-47-3	Chromium	13.0		mg/kg dry	1.05	1	"	"	"	"	
7439-89-6	Iron	18,300		mg/kg dry	4.20	1	"	"	"	"	
7439-97-6	Mercury	0.0862		mg/kg dry	0.0345	1	SW846 7471A	"	18-Sep-08	8091149	
7439-92-1	Lead	23.5		mg/kg dry	1.58	1	SW846 6010B	"	18-Sep-08	8091148	
7782-49-2	Selenium	BRL		mg/kg dry	1.58	1	"	"	19-Sep-08	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
	TCLP Extraction	Completed		N/A		1	SW846 1311	15-Sep-08	15-Sep-08	8091088	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1311/6010B	16-Sep-08	17-Sep-08	8091132	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.271		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1311/7470A	"	17-Sep-08	8091133	
7439-92-1	Lead	0.0175		mg/l	0.0150	1	SW846 1311/6010B	"	17-Sep-08	8091132	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	85.8		%		1	SM2540 G Mod.	15-Sep-08	15-Sep-08	8091086	
57-12-5	Cyanide (total)	BRL		mg/kg dry	1.07	1	SW846 9012A / EPA 335.4	15-Sep-08	16-Sep-08	8091115	
Toxicity Characteristics											
	Flashpoint	> 200		°F		1	SW846 1010	17-Sep-08	17-Sep-08	8091242	
	pH	7.26	pHHT	pH Units		1	SW846 9045C	09-Sep-08 14:03	09-Sep-08 14:54	8090653	
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/kg dry		1	SW846 Ch. 7.3	10-Sep-08	10-Sep-08	8090727	

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Sample Identification**SB-18**

SA84228-02

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 13:30

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>

Toxicity CharacteristicsReactivity Cyanide/Sulfide

Prepared by method General Preparation

Reactive Cyanide	BRL			mg/kg dry	24.9	1	SW846 Ch. 7.3	10-Sep-08	10-Sep-08	8090727	
Reactive Sulfide	BRL			mg/kg dry	49.9	1	"	"	"	"	

Sample Identification**SB-2 (10)**

SA84228-03

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	606		uS/cm		1	SM2510B	11-Sep-08	11-Sep-08	8090865	
	Resistivity	1,990		ohm.cm		1	SM 2510B	18-Sep-08	18-Sep-08	8091359	

Sample Identification**SB-2 (20)**

SA84228-04

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	345		uS/cm		1	SM2510B	11-Sep-08	11-Sep-08	8090865	
	Resistivity	3,170		ohm.cm		1	SM 2510B	18-Sep-08	18-Sep-08	8091359	

Sample Identification**SB-18 (10)**

SA84228-05

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

05-Sep-08 13:30

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	737		uS/cm		1	SM2510B	11-Sep-08	11-Sep-08	8090865	
	Resistivity	1,210		ohm.cm		1	SM 2510B	18-Sep-08	18-Sep-08	8091359	

Sample Identification**SB-18 (20)**

SA84228-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

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Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	144		uS/cm		1	SM2510B	11-Sep-08	11-Sep-08	8090865	
	Resistivity	6,380		ohm.cm		1	SM 2510B	18-Sep-08	18-Sep-08	8091359	

Sample Identification

SB-2

SA84228-07

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Matrix

Ground Water

Collection Date/Time

05-Sep-08 11:00

Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon BRL 113)			µg/l	1.0	1	SW 846 8260B	11-Sep-08	12-Sep-08	8090855	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-2

SA84228-07

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	11-Sep-08	12-Sep-08	8090855	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	101			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %		"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B											
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	1	MADEP VPH 5/2004 Rev. 1.1	15-Sep-08	15-Sep-08	8091026	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	1	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
71-43-2	Benzene	BRL		µg/l	5.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	5.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	5.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	10.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	5.0	1	"	"	"	"	

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* Reportable Detection Limit

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Sample Identification

SB-2

SA84228-07

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
<i>Surrogate recoveries:</i>											
615-59-8	2,5-Dibromotoluene (FID)	102		70-130 %			MADEP VPH 5/2004	15-Sep-08	15-Sep-08	8091026	
							Rev. 1.1				
615-59-8	2,5-Dibromotoluene (PID)	84		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	5.38	1	SW846 8270C	09-Sep-08	11-Sep-08	8090582	
208-96-8	Acenaphthylene	BRL		µg/l	5.38	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/l	5.38	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	5.38	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/l	5.38	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	5.38	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/l	5.38	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.38	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.38	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.38	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/l	5.38	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/l	5.38	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	5.38	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	5.38	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/l	5.38	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.38	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	5.38	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/l	5.38	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/l	5.38	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	5.38	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/l	5.38	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/l	5.38	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/l	5.38	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	5.38	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	5.38	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.38	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/l	5.38	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/l	5.38	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/l	5.38	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/l	5.38	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/l	5.38	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/l	5.38	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/l	5.38	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	5.38	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/l	5.38	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.38	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	5.38	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/l	5.38	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-2

SA84228-07

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
206-44-0	Fluoranthene	BRL		µg/l	5.38	1	SW846 8270C	09-Sep-08	11-Sep-08	8090582	
86-73-7	Fluorene	BRL		µg/l	5.38	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.38	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	5.38	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.38	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.38	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/l	5.38	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.38	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.38	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.8	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	5.38	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/l	5.38	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/l	5.38	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/l	21.5	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.38	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/l	5.38	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/l	21.5	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	5.38	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	5.38	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	5.38	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	21.5	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	5.38	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/l	5.38	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	5.38	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.38	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/l	5.38	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.38	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.38	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/l	5.38	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.38	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	67			30-130 %		"	"	"	"	
367-12-4	2-Fluorophenol	16			15-110 %		"	"	"	"	
4165-60-0	Nitrobenzene-d5	57			30-130 %		"	"	"	"	
4165-62-2	Phenol-d5	9	SGC		15-110 %		"	"	"	"	
1718-51-0	Terphenyl-dl4	33			30-130 %		"	"	"	"	
118-79-6	2,4,6-Tribromophenol	83			15-110 %		"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.250	1	SW846 8082	11-Sep-08	12-Sep-08	8090821	
11104-28-2	PCB 1221	BRL		µg/l	0.250	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/l	0.250	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/l	0.250	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/l	0.250	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/l	0.250	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/l	0.250	1	"	"	"	"	

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BRL = Below Reporting Limit

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Sample Identification

SB-2
SA84228-07

Client Project #
02355-159

Matrix
Ground Water

Collection Date/Time
05-Sep-08 11:00

Received
08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3510C											
37324-23-5	PCB 1262	BRL		µg/l	0.250	1	SW846 8082	11-Sep-08	12-Sep-08	8090821	
11100-14-4	PCB 1268	BRL		µg/l	0.250	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	MADEP EPH 5/2004 R	12-Sep-08	16-Sep-08	8090896	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
91-20-3	Naphthalene	BRL		µg/l	5.38	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.38	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/l	5.38	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/l	5.38	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/l	5.38	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	5.38	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	5.38	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	5.38	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.38	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	5.38	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.38	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.38	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.38	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.38	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	85		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	57		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	57		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.2	1	+SW846 8100Mod.	12-Sep-08	16-Sep-08	8090901	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.2	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.2	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.2	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.2	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/l	0.2	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.2	1	"	"	"	"	
	Hydraulic Oil	BRL		mg/l	0.2	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-2

SA84228-07

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

05-Sep-08 11:00

Received

08-Sep-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Extractable Petroleum Hydrocarbons											
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3510C											
	Dielectric Fluid	BRL		mg/l	0.2	1	+SW846 8100Mod.	12-Sep-08	16-Sep-08	8090901	
	Unidentified	BRL		mg/l	0.2	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	85			40-140 %		"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods											
	Filtration	Lab Filtered		N/A		1	EPA 200.7/3005A	16-Sep-08	16-Sep-08	8091120	
Soluble Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010B	15-Sep-08	16-Sep-08	8091083	
7440-38-2	Arsenic	BRL		mg/l	0.0040	1	"	"	"	"	
7440-39-3	Barium	0.258		mg/l	0.0050	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0050	1	"	"	"	"	
7439-89-6	Iron	1.53		mg/l	0.0150	1	"	"	"	"	
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	
Soluble Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	15-Sep-08	17-Sep-08	8091084	X
General Chemistry Parameters											
	Flashpoint	> 150		°F		1	SW846 1010	17-Sep-08	17-Sep-08	8091065	
57-12-5	Cyanide (total)	BRL		mg/l	0.0100	1	SW846 9012A / EPA 335.4	16-Sep-08	17-Sep-08	8091197	X
	pH	6.72	pHHT	pH Units		1	ASTM D 1293-99B	09-Sep-08 18:01	09-Sep-08 18:27	8090681	X
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/l		1	SW846 Ch. 7.3	09-Sep-08	09-Sep-08	8090677	
	Reactive Cyanide	BRL		mg/l	25.0	1	"	"	"	"	
	Reactive Sulfide	BRL		mg/l	50.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**Trip Blank**

SA84228-08

Client Project #

02355-159

Matrix

Aqueous

Collection Date/Time

05-Sep-08 00:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/l	1.0	1	SW 846 8260B	09-Sep-08	09-Sep-08	8090601	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**Trip Blank**

SA84228-08

Client Project #

02355-159

Matrix

Aqueous

Collection Date/Time

05-Sep-08 00:00

Received

08-Sep-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	09-Sep-08	09-Sep-08	8090601	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	89		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	116		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	118		70-130 %			"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
<u>Blank (8090601-BLK1)</u>										
Prepared & Analyzed: 09-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
<u>Blank (8090601-BLK1)</u>										
Prepared & Analyzed: 09-Sep-08										
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	47.4		µg/l		50.0		95	70-130		
Surrogate: Toluene-d8	49.9		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.3		µg/l		50.0		109	70-130		
Surrogate: Dibromofluoromethane	56.6		µg/l		50.0		113	70-130		
<u>LCS (8090601-BS1)</u>										
Prepared & Analyzed: 09-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.5		µg/l		20.0		112	70-130		
Acetone	20.3		µg/l		20.0		101	5.22-177		
Acrylonitrile	21.7		µg/l		20.0		108	70-130		
Benzene	18.0		µg/l		20.0		90	70-130		
Bromobenzene	21.3		µg/l		20.0		106	70-130		
Bromochloromethane	21.0		µg/l		20.0		105	70-130		
Bromodichloromethane	18.7		µg/l		20.0		94	70-130		
Bromoform	21.7		µg/l		20.0		109	70-130		
Bromomethane	25.0		µg/l		20.0		125	20.3-173		
2-Butanone (MEK)	16.2		µg/l		20.0		81	40.1-155		
n-Butylbenzene	15.0		µg/l		20.0		75	70-130		
sec-Butylbenzene	18.5		µg/l		20.0		93	70-130		
tert-Butylbenzene	18.1		µg/l		20.0		91	70-130		
Carbon disulfide	22.7		µg/l		20.0		113	70-130		
Carbon tetrachloride	19.8		µg/l		20.0		99	70-130		
Chlorobenzene	18.8		µg/l		20.0		94	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
<u>LCS (8090601-BS1)</u>										
Prepared & Analyzed: 09-Sep-08										
Chloroethane	17.9		µg/l		20.0		89	58.8-137		
Chloroform	19.3		µg/l		20.0		96	70-130		
Chloromethane	17.2		µg/l		20.0		86	70-130		
2-Chlorotoluene	20.8		µg/l		20.0		104	70-130		
4-Chlorotoluene	18.4		µg/l		20.0		92	70-130		
1,2-Dibromo-3-chloropropane	18.5		µg/l		20.0		92	70-130		
Dibromochloromethane	19.6		µg/l		20.0		98	70-150		
1,2-Dibromoethane (EDB)	19.7		µg/l		20.0		99	70-130		
Dibromomethane	19.0		µg/l		20.0		95	70-130		
1,2-Dichlorobenzene	19.0		µg/l		20.0		95	70-130		
1,3-Dichlorobenzene	22.0		µg/l		20.0		110	70-130		
1,4-Dichlorobenzene	16.8		µg/l		20.0		84	70-130		
Dichlorodifluoromethane (Freon12)	18.4		µg/l		20.0		92	40.4-181		
1,1-Dichloroethane	17.2		µg/l		20.0		86	70-130		
1,2-Dichloroethane	18.7		µg/l		20.0		94	70-130		
1,1-Dichloroethene	21.2		µg/l		20.0		106	70-130		
cis-1,2-Dichloroethene	20.1		µg/l		20.0		101	70-130		
trans-1,2-Dichloroethene	19.7		µg/l		20.0		98	70-130		
1,2-Dichloropropane	16.1		µg/l		20.0		80	70-130		
1,3-Dichloropropane	18.7		µg/l		20.0		94	70-130		
2,2-Dichloropropane	26.2	QC2	µg/l		20.0		131	70-130		
1,1-Dichloropropene	17.6		µg/l		20.0		88	70-130		
cis-1,3-Dichloropropene	18.3		µg/l		20.0		91	70-130		
trans-1,3-Dichloropropene	20.4		µg/l		20.0		102	70-130		
Ethylbenzene	19.0		µg/l		20.0		95	70-130		
Hexachlorobutadiene	18.8		µg/l		20.0		94	65.3-143		
2-Hexanone (MBK)	17.6		µg/l		20.0		88	70-130		
Isopropylbenzene	19.0		µg/l		20.0		95	70-130		
4-Isopropyltoluene	16.4		µg/l		20.0		82	70-130		
Methyl tert-butyl ether	19.7		µg/l		20.0		99	70-130		
4-Methyl-2-pentanone (MIBK)	17.6		µg/l		20.0		88	43.7-137		
Methylene chloride	23.1		µg/l		20.0		116	70-130		
Naphthalene	15.6		µg/l		20.0		78	70-130		
n-Propylbenzene	16.6		µg/l		20.0		83	70-130		
Styrene	17.9		µg/l		20.0		90	70-130		
1,1,1,2-Tetrachloroethane	21.5		µg/l		20.0		107	70-130		
1,1,2,2-Tetrachloroethane	21.0		µg/l		20.0		105	70-130		
Tetrachloroethene	18.4		µg/l		20.0		92	70-130		
Toluene	17.4		µg/l		20.0		87	70-130		
1,2,3-Trichlorobenzene	17.3		µg/l		20.0		86	70-130		
1,2,4-Trichlorobenzene	15.2		µg/l		20.0		76	70-130		
1,3,5-Trichlorobenzene	15.4		µg/l		20.0		77	70-130		
1,1,1-Trichloroethane	19.6		µg/l		20.0		98	70-130		
1,1,2-Trichloroethane	18.8		µg/l		20.0		94	70-130		
Trichloroethene	17.9		µg/l		20.0		89	70-130		
Trichlorofluoromethane (Freon 11)	20.3		µg/l		20.0		101	65.3-144		
1,2,3-Trichloropropane	23.4		µg/l		20.0		117	70-130		
1,2,4-Trimethylbenzene	18.5		µg/l		20.0		92	70-130		
1,3,5-Trimethylbenzene	18.2		µg/l		20.0		91	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
<u>LCS (8090601-BS1)</u>										
Prepared & Analyzed: 09-Sep-08										
Vinyl chloride	25.1		µg/l		20.0		126	70-130		
m,p-Xylene	37.2		µg/l		40.0		93	70-130		
o-Xylene	19.9		µg/l		20.0		100	70-130		
Tetrahydrofuran	19.1		µg/l		20.0		96	70-130		
Ethyl ether	19.8		µg/l		20.0		99	70-132		
Tert-amyl methyl ether	16.6		µg/l		20.0		83	70-130		
Ethyl tert-butyl ether	20.5		µg/l		20.0		102	70-130		
Di-isopropyl ether	15.5		µg/l		20.0		77	70-130		
Tert-Butanol / butyl alcohol	254		µg/l		200		127	70-130		
1,4-Dioxane	192		µg/l		200		96	43.1-144		
trans-1,4-Dichloro-2-butene	25.9		µg/l		20.0		130	70-130		
Ethanol	510		µg/l		400		127	70-130		
Surrogate: 4-Bromofluorobenzene	53.4		µg/l		50.0		107	70-130		
Surrogate: Toluene-d8	48.9		µg/l		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.2		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	52.3		µg/l		50.0		105	70-130		
<u>LCS Dup (8090601-BSD1)</u>										
Prepared & Analyzed: 09-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.0		µg/l		20.0		120	70-130	7	25
Acetone	20.5		µg/l		20.0		103	5.22-177	1	50
Acrylonitrile	22.4		µg/l		20.0		112	70-130	3	25
Benzene	18.6		µg/l		20.0		93	70-130	3	25
Bromobenzene	21.4		µg/l		20.0		107	70-130	0.5	25
Bromochloromethane	20.1		µg/l		20.0		100	70-130	4	25
Bromodichloromethane	19.9		µg/l		20.0		100	70-130	6	25
Bromoform	24.6		µg/l		20.0		123	70-130	13	25
Bromomethane	23.3		µg/l		20.0		117	20.3-173	7	50
2-Butanone (MEK)	18.6		µg/l		20.0		93	40.1-155	14	50
n-Butylbenzene	12.1	QC1	µg/l		20.0		61	70-130	21	25
sec-Butylbenzene	16.2		µg/l		20.0		81	70-130	13	25
tert-Butylbenzene	16.9		µg/l		20.0		84	70-130	7	25
Carbon disulfide	13.4	QC1	µg/l		20.0		67	70-130	51	25
Carbon tetrachloride	21.5		µg/l		20.0		107	70-130	8	25
Chlorobenzene	19.2		µg/l		20.0		96	70-130	2	25
Chloroethane	17.5		µg/l		20.0		88	58.8-137	2	50
Chloroform	19.9		µg/l		20.0		100	70-130	3	25
Chloromethane	16.8		µg/l		20.0		84	70-130	2	25
2-Chlorotoluene	21.2		µg/l		20.0		106	70-130	2	25
4-Chlorotoluene	17.7		µg/l		20.0		89	70-130	4	25
1,2-Dibromo-3-chloropropane	17.4		µg/l		20.0		87	70-130	6	25
Dibromochloromethane	21.5		µg/l		20.0		108	70-150	9	50
1,2-Dibromoethane (EDB)	20.0		µg/l		20.0		100	70-130	1	25
Dibromomethane	18.6		µg/l		20.0		93	70-130	2	25
1,2-Dichlorobenzene	19.2		µg/l		20.0		96	70-130	1	25
1,3-Dichlorobenzene	20.5		µg/l		20.0		102	70-130	7	25
1,4-Dichlorobenzene	15.8		µg/l		20.0		79	70-130	6	25
Dichlorodifluoromethane (Freon12)	19.2		µg/l		20.0		96	40.4-181	4	50
1,1-Dichloroethane	18.2		µg/l		20.0		91	70-130	6	25
1,2-Dichloroethane	19.0		µg/l		20.0		95	70-130	2	25
1,1-Dichloroethene	19.3		µg/l		20.0		97	70-130	9	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
<u>LCS Dup (8090601-BSD1)</u>										
Prepared & Analyzed: 09-Sep-08										
cis-1,2-Dichloroethene	19.2		µg/l		20.0		96	70-130	5	25
trans-1,2-Dichloroethene	15.1	QR2	µg/l		20.0		75	70-130	26	25
1,2-Dichloropropane	16.3		µg/l		20.0		82	70-130	2	25
1,3-Dichloropropane	19.2		µg/l		20.0		96	70-130	2	25
2,2-Dichloropropane	27.2	QC2	µg/l		20.0		136	70-130	4	25
1,1-Dichloropropene	15.7		µg/l		20.0		78	70-130	11	25
cis-1,3-Dichloropropene	17.8		µg/l		20.0		89	70-130	3	25
trans-1,3-Dichloropropene	18.6		µg/l		20.0		93	70-130	9	25
Ethylbenzene	20.0		µg/l		20.0		100	70-130	5	25
Hexachlorobutadiene	12.2	QC1	µg/l		20.0		61	65.3-143	43	50
2-Hexanone (MBK)	18.9		µg/l		20.0		95	70-130	7	25
Isopropylbenzene	19.4		µg/l		20.0		97	70-130	2	25
4-Isopropyltoluene	14.8		µg/l		20.0		74	70-130	10	25
Methyl tert-butyl ether	20.6		µg/l		20.0		103	70-130	4	25
4-Methyl-2-pentanone (MIBK)	18.1		µg/l		20.0		90	43.7-137	3	50
Methylene chloride	22.0		µg/l		20.0		110	70-130	5	25
Naphthalene	13.5	QC1	µg/l		20.0		67	70-130	15	25
n-Propylbenzene	16.0		µg/l		20.0		80	70-130	3	25
Styrene	18.1		µg/l		20.0		90	70-130	0.8	25
1,1,1,2-Tetrachloroethane	21.7		µg/l		20.0		108	70-130	0.9	25
1,1,2,2-Tetrachloroethane	21.7		µg/l		20.0		108	70-130	3	25
Tetrachloroethene	17.9		µg/l		20.0		90	70-130	3	25
Toluene	18.1		µg/l		20.0		90	70-130	4	25
1,2,3-Trichlorobenzene	14.6		µg/l		20.0		73	70-130	17	25
1,2,4-Trichlorobenzene	12.7	QC1	µg/l		20.0		63	70-130	18	25
1,3,5-Trichlorobenzene	13.3	QC1	µg/l		20.0		66	70-130	15	25
1,1,1-Trichloroethane	20.3		µg/l		20.0		102	70-130	4	25
1,1,2-Trichloroethane	19.6		µg/l		20.0		98	70-130	4	25
Trichloroethene	15.6		µg/l		20.0		78	70-130	13	25
Trichlorofluoromethane (Freon 11)	21.2		µg/l		20.0		106	65.3-144	5	50
1,2,3-Trichloropropane	23.9		µg/l		20.0		119	70-130	2	25
1,2,4-Trimethylbenzene	18.8		µg/l		20.0		94	70-130	2	25
1,3,5-Trimethylbenzene	18.0		µg/l		20.0		90	70-130	1	25
Vinyl chloride	22.0		µg/l		20.0		110	70-130	13	25
m,p-Xylene	38.6		µg/l		40.0		96	70-130	3	25
o-Xylene	21.4		µg/l		20.0		107	70-130	7	25
Tetrahydrofuran	17.3		µg/l		20.0		87	70-130	10	25
Ethyl ether	21.0		µg/l		20.0		105	70-132	6	50
Tert-amyl methyl ether	17.6		µg/l		20.0		88	70-130	6	25
Ethyl tert-butyl ether	21.5		µg/l		20.0		107	70-130	5	25
Di-isopropyl ether	16.7		µg/l		20.0		84	70-130	8	25
Tert-Butanol / butyl alcohol	257		µg/l		200		128	70-130	0.9	25
1,4-Dioxane	208		µg/l		200		104	43.1-144	8	25
trans-1,4-Dichloro-2-butene	26.8	QC1	µg/l		20.0		134	70-130	3	25
Ethanol	500		µg/l		400		125	70-130	2	30
Surrogate: 4-Bromofluorobenzene	53.5		µg/l		50.0		107	70-130		
Surrogate: Toluene-d8	48.2		µg/l		50.0		96	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.8		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	52.2		µg/l		50.0		104	70-130		

Matrix Spike (8090601-MS1)

Source: SA84189-01

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090601 - SW846 5030 Water MS										
Prepared & Analyzed: 09-Sep-08										
Benzene	11.8	QM7	µg/l		20.0	BRL	59	70-130		
Chlorobenzene	24.0		µg/l		20.0	BRL	120	70-130		
1,1-Dichloroethene	14.5		µg/l		20.0	BRL	72	70-130		
Toluene	16.1		µg/l		20.0	BRL	80	70-130		
Trichloroethene	13.8	QM7	µg/l		20.0	BRL	69	70-130		
Surrogate: 4-Bromofluorobenzene	55.0		µg/l		50.0		110	70-130		
Surrogate: Toluene-d8	49.3		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.0		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	53.5		µg/l		50.0		107	70-130		
Matrix Spike Dup (8090601-MSD1) Source: SA84189-01										
Prepared & Analyzed: 09-Sep-08										
Benzene	12.5	QM7	µg/l		20.0	BRL	62	70-130	6	30
Chlorobenzene	24.3		µg/l		20.0	BRL	121	70-130	1	30
1,1-Dichloroethene	14.6		µg/l		20.0	BRL	73	70-130	0.6	30
Toluene	15.9		µg/l		20.0	BRL	80	70-130	0.8	30
Trichloroethene	13.6	QM7	µg/l		20.0	BRL	68	70-130	2	30
Surrogate: 4-Bromofluorobenzene	54.5		µg/l		50.0		109	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.1		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	52.9		µg/l		50.0		106	70-130		
Batch 8090724 - SW846 5035A Soil (low level)										
Blank (8090724-BLK1)										
Prepared & Analyzed: 10-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090724 - SW846 5035A Soil (low level)										
<u>Blank (8090724-BLK1)</u>										
Prepared & Analyzed: 10-Sep-08										
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2000						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090724 - SW846 5035A Soil (low level)										
<u>Blank (8090724-BLK1)</u>										
Prepared & Analyzed: 10-Sep-08										
Surrogate: 4-Bromofluorobenzene	48.8		µg/kg wet		50.0		98	70-130		
Surrogate: Toluene-d8	52.0		µg/kg wet		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	62.8		µg/kg wet		50.0		126	70-130		
Surrogate: Dibromofluoromethane	53.9		µg/kg wet		50.0		108	70-130		
<u>LCS (8090724-BS1)</u>										
Prepared & Analyzed: 10-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.3		µg/kg wet		20.0		122	70-130		
Acetone	2.2	QC1	µg/kg wet		20.0		11	15.9-162		
Acrylonitrile	23.2		µg/kg wet		20.0		116	70-130		
Benzene	18.5		µg/kg wet		20.0		93	70-130		
Bromobenzene	18.2		µg/kg wet		20.0		91	70-130		
Bromochloromethane	18.3		µg/kg wet		20.0		92	70-130		
Bromodichloromethane	20.2		µg/kg wet		20.0		101	70-130		
Bromoform	20.9		µg/kg wet		20.0		105	70-130		
Bromomethane	16.4		µg/kg wet		20.0		82	40.8-154		
2-Butanone (MEK)	1.7	QC2	µg/kg wet		20.0		8	27.2-154		
n-Butylbenzene	19.1		µg/kg wet		20.0		95	70-130		
sec-Butylbenzene	18.0		µg/kg wet		20.0		90	70-130		
tert-Butylbenzene	18.0		µg/kg wet		20.0		90	70-130		
Carbon disulfide	20.0		µg/kg wet		20.0		100	70-130		
Carbon tetrachloride	24.8		µg/kg wet		20.0		124	70-130		
Chlorobenzene	18.1		µg/kg wet		20.0		91	70-130		
Chloroethane	16.5		µg/kg wet		20.0		82	59.1-130		
Chloroform	18.3		µg/kg wet		20.0		92	70-130		
Chloromethane	18.8		µg/kg wet		20.0		94	70-130		
2-Chlorotoluene	18.4		µg/kg wet		20.0		92	70-130		
4-Chlorotoluene	19.0		µg/kg wet		20.0		95	70-130		
1,2-Dibromo-3-chloropropane	24.4		µg/kg wet		20.0		122	70-130		
Dibromochloromethane	21.1		µg/kg wet		20.0		105	67-133		
1,2-Dibromoethane (EDB)	20.4		µg/kg wet		20.0		102	70-130		
Dibromomethane	18.8		µg/kg wet		20.0		94	70-130		
1,2-Dichlorobenzene	19.3		µg/kg wet		20.0		96	70-130		
1,3-Dichlorobenzene	18.5		µg/kg wet		20.0		92	70-130		
1,4-Dichlorobenzene	19.4		µg/kg wet		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	17.4		µg/kg wet		20.0		87	33.9-180		
1,1-Dichloroethane	23.0		µg/kg wet		20.0		115	70-130		
1,2-Dichloroethane	20.3		µg/kg wet		20.0		101	70-130		
1,1-Dichloroethene	21.8		µg/kg wet		20.0		109	70-130		
cis-1,2-Dichloroethene	19.5		µg/kg wet		20.0		98	70-130		
trans-1,2-Dichloroethene	20.3		µg/kg wet		20.0		102	70-130		
1,2-Dichloropropane	21.4		µg/kg wet		20.0		107	70-130		
1,3-Dichloropropane	20.1		µg/kg wet		20.0		101	70-130		
2,2-Dichloropropane	34.8	QC2	µg/kg wet		20.0		174	70-130		
1,1-Dichloropropene	18.9		µg/kg wet		20.0		94	70-130		
cis-1,3-Dichloropropene	21.6		µg/kg wet		20.0		108	70-130		
trans-1,3-Dichloropropene	20.2		µg/kg wet		20.0		101	70-130		
Ethylbenzene	18.0		µg/kg wet		20.0		90	70-130		
Hexachlorobutadiene	17.2		µg/kg wet		20.0		86	57-138		
2-Hexanone (MBK)	20.8		µg/kg wet		20.0		104	70-130		
Isopropylbenzene	16.8		µg/kg wet		20.0		84	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090724 - SW846 5035A Soil (low level)										
<u>LCS (8090724-BS1)</u>										
Prepared & Analyzed: 10-Sep-08										
4-Isopropyltoluene	20.9		µg/kg wet		20.0		104	70-130		
Methyl tert-butyl ether	25.7		µg/kg wet		20.0		129	70-130		
4-Methyl-2-pentanone (MIBK)	16.9		µg/kg wet		20.0		84	55.4-131		
Methylene chloride	22.6		µg/kg wet		20.0		113	70-130		
Naphthalene	19.1		µg/kg wet		20.0		96	70-130		
n-Propylbenzene	18.0		µg/kg wet		20.0		90	70-130		
Styrene	18.5		µg/kg wet		20.0		92	70-130		
1,1,1,2-Tetrachloroethane	20.5		µg/kg wet		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	18.8		µg/kg wet		20.0		94	70-130		
Tetrachloroethene	18.8		µg/kg wet		20.0		94	70-130		
Toluene	18.5		µg/kg wet		20.0		92	70-130		
1,2,3-Trichlorobenzene	19.7		µg/kg wet		20.0		99	70-130		
1,2,4-Trichlorobenzene	19.2		µg/kg wet		20.0		96	70-130		
1,3,5-Trichlorobenzene	18.5		µg/kg wet		20.0		93	70-130		
1,1,1-Trichloroethane	25.5		µg/kg wet		20.0		127	70-130		
1,1,2-Trichloroethane	21.0		µg/kg wet		20.0		105	70-130		
Trichloroethene	18.4		µg/kg wet		20.0		92	70-130		
Trichlorofluoromethane (Freon 11)	19.9		µg/kg wet		20.0		100	52-154		
1,2,3-Trichloropropane	21.9		µg/kg wet		20.0		109	70-130		
1,2,4-Trimethylbenzene	18.4		µg/kg wet		20.0		92	70-130		
1,3,5-Trimethylbenzene	18.5		µg/kg wet		20.0		93	70-130		
Vinyl chloride	20.0		µg/kg wet		20.0		100	70-130		
m,p-Xylene	36.5		µg/kg wet		40.0		91	70-130		
o-Xylene	18.3		µg/kg wet		20.0		92	70-130		
Tetrahydrofuran	18.5		µg/kg wet		20.0		92	70-130		
Ethyl ether	18.7		µg/kg wet		20.0		94	65.7-131		
Tert-amyl methyl ether	12.6	QC1	µg/kg wet		20.0		63	70-130		
Ethyl tert-butyl ether	29.1	QC2	µg/kg wet		20.0		146	70-130		
Di-isopropyl ether	23.3		µg/kg wet		20.0		116	70-130		
Tert-Butanol / butyl alcohol	113	QC1	µg/kg wet		200		57	70-130		
1,4-Dioxane	147		µg/kg wet		200		74	50.9-140		
trans-1,4-Dichloro-2-butene	19.5		µg/kg wet		20.0		98	70-130		
Ethanol	658	QC1	µg/kg wet		400		165	70-130		
Surrogate: 4-Bromofluorobenzene	48.1		µg/kg wet		50.0		96	70-130		
Surrogate: Toluene-d8	51.2		µg/kg wet		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.4		µg/kg wet		50.0		107	70-130		
Surrogate: Dibromofluoromethane	51.4		µg/kg wet		50.0		103	70-130		
<u>LCS Dup (8090724-BSD1)</u>										
Prepared & Analyzed: 10-Sep-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.3		µg/kg wet		20.0		117	70-130	4	25
Acetone	4.4	QR5	µg/kg wet		20.0		22	15.9-162	65	50
Acrylonitrile	19.8		µg/kg wet		20.0		99	70-130	16	25
Benzene	18.0		µg/kg wet		20.0		90	70-130	3	25
Bromobenzene	17.8		µg/kg wet		20.0		89	70-130	3	25
Bromochloromethane	17.9		µg/kg wet		20.0		89	70-130	3	25
Bromodichloromethane	20.3		µg/kg wet		20.0		102	70-130	0.6	25
Bromoform	20.9		µg/kg wet		20.0		104	70-130	0.2	25
Bromomethane	15.9		µg/kg wet		20.0		80	40.8-154	3	50
2-Butanone (MEK)	0.9	QC2	µg/kg wet		20.0		5	27.2-154	60	50
n-Butylbenzene	17.8		µg/kg wet		20.0		89	70-130	7	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090724 - SW846 5035A Soil (low level)										
<u>LCS Dup (8090724-BSD1)</u>										
Prepared & Analyzed: 10-Sep-08										
sec-Butylbenzene	17.3		µg/kg wet		20.0		86	70-130	4	25
tert-Butylbenzene	17.7		µg/kg wet		20.0		89	70-130	1	25
Carbon disulfide	19.2		µg/kg wet		20.0		96	70-130	4	25
Carbon tetrachloride	24.1		µg/kg wet		20.0		121	70-130	3	25
Chlorobenzene	17.9		µg/kg wet		20.0		89	70-130	1	25
Chloroethane	16.3		µg/kg wet		20.0		82	59.1-130	1	50
Chloroform	17.6		µg/kg wet		20.0		88	70-130	4	25
Chloromethane	18.7		µg/kg wet		20.0		94	70-130	0.5	25
2-Chlorotoluene	18.0		µg/kg wet		20.0		90	70-130	2	25
4-Chlorotoluene	18.2		µg/kg wet		20.0		91	70-130	4	25
1,2-Dibromo-3-chloropropane	23.5		µg/kg wet		20.0		118	70-130	4	25
Dibromochloromethane	20.3		µg/kg wet		20.0		102	67-133	4	50
1,2-Dibromoethane (EDB)	20.3		µg/kg wet		20.0		102	70-130	0.2	25
Dibromomethane	18.5		µg/kg wet		20.0		93	70-130	1	25
1,2-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	6	25
1,3-Dichlorobenzene	17.6		µg/kg wet		20.0		88	70-130	5	25
1,4-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	7	25
Dichlorodifluoromethane (Freon12)	17.1		µg/kg wet		20.0		86	33.9-180	2	50
1,1-Dichloroethane	22.0		µg/kg wet		20.0		110	70-130	5	25
1,2-Dichloroethane	19.8		µg/kg wet		20.0		99	70-130	2	25
1,1-Dichloroethene	17.7		µg/kg wet		20.0		88	70-130	21	25
cis-1,2-Dichloroethene	18.5		µg/kg wet		20.0		92	70-130	5	25
trans-1,2-Dichloroethene	19.8		µg/kg wet		20.0		99	70-130	3	25
1,2-Dichloropropane	21.0		µg/kg wet		20.0		105	70-130	2	25
1,3-Dichloropropane	19.9		µg/kg wet		20.0		99	70-130	1	25
2,2-Dichloropropane	35.3	QC2	µg/kg wet		20.0		176	70-130	2	25
1,1-Dichloropropene	18.4		µg/kg wet		20.0		92	70-130	3	25
cis-1,3-Dichloropropene	21.2		µg/kg wet		20.0		106	70-130	2	25
trans-1,3-Dichloropropene	20.2		µg/kg wet		20.0		101	70-130	0.1	25
Ethylbenzene	17.8		µg/kg wet		20.0		89	70-130	1	25
Hexachlorobutadiene	16.4		µg/kg wet		20.0		82	57-138	5	50
2-Hexanone (MBK)	19.5		µg/kg wet		20.0		97	70-130	7	25
Isopropylbenzene	16.3		µg/kg wet		20.0		82	70-130	3	25
4-Isopropyltoluene	19.2		µg/kg wet		20.0		96	70-130	8	25
Methyl tert-butyl ether	27.2	QC1	µg/kg wet		20.0		136	70-130	5	25
4-Methyl-2-pentanone (MIBK)	17.4		µg/kg wet		20.0		87	55.4-131	3	50
Methylene chloride	18.0		µg/kg wet		20.0		90	70-130	23	25
Naphthalene	18.3		µg/kg wet		20.0		92	70-130	4	25
n-Propylbenzene	17.5		µg/kg wet		20.0		87	70-130	3	25
Styrene	17.9		µg/kg wet		20.0		90	70-130	3	25
1,1,1,2-Tetrachloroethane	20.2		µg/kg wet		20.0		101	70-130	1	25
1,1,2,2-Tetrachloroethane	19.0		µg/kg wet		20.0		95	70-130	1	25
Tetrachloroethene	18.4		µg/kg wet		20.0		92	70-130	2	25
Toluene	17.8		µg/kg wet		20.0		89	70-130	4	25
1,2,3-Trichlorobenzene	18.7		µg/kg wet		20.0		94	70-130	5	25
1,2,4-Trichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	6	25
1,3,5-Trichlorobenzene	17.1		µg/kg wet		20.0		86	70-130	8	25
1,1,1-Trichloroethane	24.8		µg/kg wet		20.0		124	70-130	3	25
1,1,2-Trichloroethane	20.5		µg/kg wet		20.0		102	70-130	3	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090724 - SW846 5035A Soil (low level)										
<u>LCS Dup (8090724-BSD1)</u>										
Prepared & Analyzed: 10-Sep-08										
Trichloroethene	17.1		µg/kg wet		20.0		86	70-130	7	25
Trichlorofluoromethane (Freon 11)	19.1		µg/kg wet		20.0		96	52-154	4	50
1,2,3-Trichloropropane	21.6		µg/kg wet		20.0		108	70-130	1	25
1,2,4-Trimethylbenzene	17.8		µg/kg wet		20.0		89	70-130	3	25
1,3,5-Trimethylbenzene	17.8		µg/kg wet		20.0		89	70-130	4	25
Vinyl chloride	18.4		µg/kg wet		20.0		92	70-130	8	25
m,p-Xylene	35.6		µg/kg wet		40.0		89	70-130	2	25
o-Xylene	18.1		µg/kg wet		20.0		91	70-130	0.9	25
Tetrahydrofuran	18.1		µg/kg wet		20.0		90	70-130	2	25
Ethyl ether	18.3		µg/kg wet		20.0		91	65.7-131	2	50
Tert-amyl methyl ether	14.1		µg/kg wet		20.0		71	70-130	12	25
Ethyl tert-butyl ether	31.5	QC2	µg/kg wet		20.0		157	70-130	8	25
Di-isopropyl ether	22.8		µg/kg wet		20.0		114	70-130	2	25
Tert-Butanol / butyl alcohol	213	QR5	µg/kg wet		200		106	70-130	61	25
1,4-Dioxane	154		µg/kg wet		200		77	50.9-140	4	25
trans-1,4-Dichloro-2-butene	19.1		µg/kg wet		20.0		95	70-130	2	25
Ethanol	518		µg/kg wet		400		129	70-130	24	30
Surrogate: 4-Bromofluorobenzene	49.2		µg/kg wet		50.0		98	70-130		
Surrogate: Toluene-d8	51.4		µg/kg wet		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.8		µg/kg wet		50.0		108	70-130		
Surrogate: Dibromofluoromethane	50.8		µg/kg wet		50.0		102	70-130		
Batch 8090855 - SW846 5030 Water MS										
<u>Blank (8090855-BLK1)</u>										
Prepared & Analyzed: 11-Sep-08										
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	1.0						
Benzene	BRL		µg/l	0.5						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	1.0						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	0.5						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	1.0						
1,2-Dibromoethane (EDB)	BRL		µg/l	1.0						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	0.5						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090855 - SW846 5030 Water MS										
<u>Blank (8090855-BLK1)</u>										
Prepared & Analyzed: 11-Sep-08										
1,3-Dichlorobenzene	BRL		µg/l	0.5						
1,4-Dichlorobenzene	BRL		µg/l	0.5						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	0.5						
1,2-Dichloroethane	BRL		µg/l	0.5						
1,1-Dichloroethene	BRL		µg/l	0.5						
cis-1,2-Dichloroethene	BRL		µg/l	0.5						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	1.0						
trans-1,3-Dichloropropene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	0.5						
Hexachlorobutadiene	BRL		µg/l	1.0						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	0.5						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	0.5						
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	0.5						
Toluene	BRL		µg/l	0.5						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	0.5						
1,1,2-Trichloroethane	BRL		µg/l	0.5						
Trichloroethene	BRL		µg/l	0.5						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	0.5						
m,p-Xylene	BRL		µg/l	1.0						
o-Xylene	BRL		µg/l	0.5						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	0.5						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090855 - SW846 5030 Water MS										
<u>Blank (8090855-BLK1)</u>										
Prepared & Analyzed: 11-Sep-08										
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	500						
Surrogate: 4-Bromofluorobenzene	30.2		µg/l		30.0		101	70-130		
Surrogate: Toluene-d8	29.5		µg/l		30.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	29.7		µg/l		30.0		99	70-130		
Surrogate: Dibromofluoromethane	30.4		µg/l		30.0		101	70-130		
<u>LCS (8090855-BS1)</u>										
Prepared & Analyzed: 11-Sep-08										
Acetone	11.6		µg/l		20.0		58	5.22-177		
Acrylonitrile	15.5		µg/l		20.0		78	70-130		
Benzene	19.2		µg/l		20.0		96	70-130		
Bromobenzene	19.6		µg/l		20.0		98	70-130		
Bromochloromethane	19.2		µg/l		20.0		96	70-130		
Bromodichloromethane	19.3		µg/l		20.0		96	70-130		
Bromoform	15.5		µg/l		20.0		78	70-130		
Bromomethane	14.8		µg/l		20.0		74	20.3-173		
2-Butanone (MEK)	15.4		µg/l		20.0		77	40.1-155		
n-Butylbenzene	19.3		µg/l		20.0		97	70-130		
sec-Butylbenzene	19.7		µg/l		20.0		98	70-130		
tert-Butylbenzene	20.0		µg/l		20.0		100	70-130		
Carbon disulfide	16.9		µg/l		20.0		85	70-130		
Carbon tetrachloride	16.4		µg/l		20.0		82	70-130		
Chlorobenzene	19.5		µg/l		20.0		97	70-130		
Chloroethane	17.8		µg/l		20.0		89	58.8-137		
Chloroform	19.5		µg/l		20.0		98	70-130		
Chloromethane	18.4		µg/l		20.0		92	70-130		
2-Chlorotoluene	19.7		µg/l		20.0		99	70-130		
4-Chlorotoluene	19.6		µg/l		20.0		98	70-130		
1,2-Dibromo-3-chloropropane	15.8		µg/l		20.0		79	70-130		
Dibromochloromethane	18.6		µg/l		20.0		93	70-150		
1,2-Dibromoethane (EDB)	18.0		µg/l		20.0		90	70-130		
Dibromomethane	18.5		µg/l		20.0		92	70-130		
1,2-Dichlorobenzene	19.5		µg/l		20.0		98	70-130		
1,3-Dichlorobenzene	19.8		µg/l		20.0		99	70-130		
1,4-Dichlorobenzene	19.4		µg/l		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	17.1		µg/l		20.0		85	40.4-181		
1,1-Dichloroethane	19.5		µg/l		20.0		98	70-130		
1,2-Dichloroethane	18.4		µg/l		20.0		92	70-130		
1,1-Dichloroethene	19.5		µg/l		20.0		97	70-130		
cis-1,2-Dichloroethene	20.5		µg/l		20.0		102	70-130		
trans-1,2-Dichloroethene	18.6		µg/l		20.0		93	70-130		
1,2-Dichloropropane	19.3		µg/l		20.0		97	70-130		
1,3-Dichloropropane	18.4		µg/l		20.0		92	70-130		
2,2-Dichloropropane	18.1		µg/l		20.0		90	70-130		
1,1-Dichloropropene	18.8		µg/l		20.0		94	70-130		
cis-1,3-Dichloropropene	18.2		µg/l		20.0		91	70-130		
trans-1,3-Dichloropropene	17.6		µg/l		20.0		88	70-130		
Ethylbenzene	19.3		µg/l		20.0		96	70-130		
Hexachlorobutadiene	18.2		µg/l		20.0		91	65.3-143		
2-Hexanone (MBK)	14.5		µg/l		20.0		73	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090855 - SW846 5030 Water MS										
<u>LCS (8090855-BS1)</u>										
Prepared & Analyzed: 11-Sep-08										
Isopropylbenzene	18.2		µg/l		20.0		91	70-130		
4-Isopropyltoluene	20.6		µg/l		20.0		103	70-130		
Methyl tert-butyl ether	16.4		µg/l		20.0		82	70-130		
4-Methyl-2-pentanone (MIBK)	14.9		µg/l		20.0		74	43.7-137		
Methylene chloride	18.6		µg/l		20.0		93	70-130		
Naphthalene	17.4		µg/l		20.0		87	70-130		
n-Propylbenzene	19.1		µg/l		20.0		96	70-130		
Styrene	19.9		µg/l		20.0		100	70-130		
1,1,1,2-Tetrachloroethane	18.8		µg/l		20.0		94	70-130		
1,1,2,2-Tetrachloroethane	17.4		µg/l		20.0		87	70-130		
Tetrachloroethene	18.5		µg/l		20.0		92	70-130		
Toluene	18.6		µg/l		20.0		93	70-130		
1,2,3-Trichlorobenzene	18.6		µg/l		20.0		93	70-130		
1,2,4-Trichlorobenzene	18.9		µg/l		20.0		94	70-130		
1,3,5-Trichlorobenzene	18.7		µg/l		20.0		94	70-130		
1,1,1-Trichloroethane	18.6		µg/l		20.0		93	70-130		
1,1,2-Trichloroethane	18.5		µg/l		20.0		93	70-130		
Trichloroethene	18.3		µg/l		20.0		92	70-130		
Trichlorofluoromethane (Freon 11)	17.5		µg/l		20.0		88	65.3-144		
1,2,3-Trichloropropane	18.9		µg/l		20.0		94	70-130		
1,2,4-Trimethylbenzene	20.2		µg/l		20.0		101	70-130		
1,3,5-Trimethylbenzene	20.1		µg/l		20.0		100	70-130		
Vinyl chloride	21.9		µg/l		20.0		110	70-130		
m,p-Xylene	39.6		µg/l		40.0		99	70-130		
o-Xylene	20.3		µg/l		20.0		102	70-130		
Tetrahydrofuran	15.3		µg/l		20.0		76	70-130		
Ethyl ether	17.9		µg/l		20.0		89	70-132		
Tert-amyl methyl ether	16.8		µg/l		20.0		84	70-130		
Ethyl tert-butyl ether	17.8		µg/l		20.0		89	70-130		
Di-isopropyl ether	17.6		µg/l		20.0		88	70-130		
Tert-Butanol / butyl alcohol	131	QC2	µg/l		200		65	70-130		
1,4-Dioxane	155		µg/l		200		77	43.1-144		
trans-1,4-Dichloro-2-butene	16.0		µg/l		20.0		80	70-130		
Ethanol	319		µg/l		400		80	70-130		
Surrogate: 4-Bromofluorobenzene	30.2		µg/l		30.0		101	70-130		
Surrogate: Toluene-d8	29.7		µg/l		30.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	28.6		µg/l		30.0		95	70-130		
Surrogate: Dibromofluoromethane	30.0		µg/l		30.0		100	70-130		
<u>LCS Dup (8090855-BSD1)</u>										
Prepared & Analyzed: 11-Sep-08										
Acetone	11.9		µg/l		20.0		59	5.22-177	2	50
Acrylonitrile	15.3		µg/l		20.0		77	70-130	1	25
Benzene	18.7		µg/l		20.0		94	70-130	2	25
Bromobenzene	19.1		µg/l		20.0		96	70-130	3	25
Bromochloromethane	18.8		µg/l		20.0		94	70-130	2	25
Bromodichloromethane	18.6		µg/l		20.0		93	70-130	3	25
Bromoform	15.2		µg/l		20.0		76	70-130	2	25
Bromomethane	15.0		µg/l		20.0		75	20.3-173	1	50
2-Butanone (MEK)	15.9		µg/l		20.0		80	40.1-155	3	50
n-Butylbenzene	19.0		µg/l		20.0		95	70-130	2	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090855 - SW846 5030 Water MS										
<u>LCS Dup (8090855-BSD1)</u>										
Prepared & Analyzed: 11-Sep-08										
sec-Butylbenzene	19.4		µg/l		20.0		97	70-130	1	25
tert-Butylbenzene	19.8		µg/l		20.0		99	70-130	0.9	25
Carbon disulfide	16.3		µg/l		20.0		82	70-130	4	25
Carbon tetrachloride	16.3		µg/l		20.0		82	70-130	0.5	25
Chlorobenzene	19.1		µg/l		20.0		95	70-130	2	25
Chloroethane	17.6		µg/l		20.0		88	58.8-137	0.9	50
Chloroform	19.1		µg/l		20.0		95	70-130	2	25
Chloromethane	17.8		µg/l		20.0		89	70-130	4	25
2-Chlorotoluene	18.9		µg/l		20.0		94	70-130	4	25
4-Chlorotoluene	19.3		µg/l		20.0		96	70-130	2	25
1,2-Dibromo-3-chloropropane	15.4		µg/l		20.0		77	70-130	3	25
Dibromochloromethane	18.1		µg/l		20.0		91	70-150	3	50
1,2-Dibromoethane (EDB)	17.7		µg/l		20.0		88	70-130	2	25
Dibromomethane	18.2		µg/l		20.0		91	70-130	1	25
1,2-Dichlorobenzene	19.2		µg/l		20.0		96	70-130	2	25
1,3-Dichlorobenzene	19.7		µg/l		20.0		98	70-130	0.5	25
1,4-Dichlorobenzene	18.7		µg/l		20.0		93	70-130	4	25
Dichlorodifluoromethane (Freon12)	17.5		µg/l		20.0		87	40.4-181	2	50
1,1-Dichloroethane	19.2		µg/l		20.0		96	70-130	2	25
1,2-Dichloroethane	18.0		µg/l		20.0		90	70-130	2	25
1,1-Dichloroethene	19.6		µg/l		20.0		98	70-130	0.8	25
cis-1,2-Dichloroethene	19.9		µg/l		20.0		99	70-130	3	25
trans-1,2-Dichloroethene	18.4		µg/l		20.0		92	70-130	1	25
1,2-Dichloropropane	18.6		µg/l		20.0		93	70-130	4	25
1,3-Dichloropropane	17.8		µg/l		20.0		89	70-130	3	25
2,2-Dichloropropane	17.8		µg/l		20.0		89	70-130	1	25
1,1-Dichloropropene	18.6		µg/l		20.0		93	70-130	1	25
cis-1,3-Dichloropropene	17.7		µg/l		20.0		88	70-130	3	25
trans-1,3-Dichloropropene	17.2		µg/l		20.0		86	70-130	3	25
Ethylbenzene	19.1		µg/l		20.0		96	70-130	1	25
Hexachlorobutadiene	17.5		µg/l		20.0		88	65.3-143	4	50
2-Hexanone (MBK)	14.2		µg/l		20.0		71	70-130	2	25
Isopropylbenzene	18.1		µg/l		20.0		90	70-130	0.4	25
4-Isopropyltoluene	19.8		µg/l		20.0		99	70-130	4	25
Methyl tert-butyl ether	16.1		µg/l		20.0		80	70-130	2	25
4-Methyl-2-pentanone (MIBK)	14.8		µg/l		20.0		74	43.7-137	0.07	50
Methylene chloride	18.6		µg/l		20.0		93	70-130	0	25
Naphthalene	17.1		µg/l		20.0		86	70-130	2	25
n-Propylbenzene	19.6		µg/l		20.0		98	70-130	3	25
Styrene	19.3		µg/l		20.0		96	70-130	3	25
1,1,1,2-Tetrachloroethane	18.5		µg/l		20.0		93	70-130	2	25
1,1,2,2-Tetrachloroethane	17.6		µg/l		20.0		88	70-130	0.8	25
Tetrachloroethene	18.2		µg/l		20.0		91	70-130	2	25
Toluene	18.3		µg/l		20.0		91	70-130	2	25
1,2,3-Trichlorobenzene	18.2		µg/l		20.0		91	70-130	2	25
1,2,4-Trichlorobenzene	18.3		µg/l		20.0		92	70-130	3	25
1,3,5-Trichlorobenzene	18.0		µg/l		20.0		90	70-130	4	25
1,1,1-Trichloroethane	18.4		µg/l		20.0		92	70-130	0.5	25
1,1,2-Trichloroethane	18.1		µg/l		20.0		90	70-130	2	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090855 - SW846 5030 Water MS										
<u>LCS Dup (8090855-BSD1)</u>										
Prepared & Analyzed: 11-Sep-08										
Trichloroethene	18.0		µg/l		20.0		90	70-130	2	25
Trichlorofluoromethane (Freon 11)	17.6		µg/l		20.0		88	65.3-144	0.4	50
1,2,3-Trichloropropane	18.7		µg/l		20.0		94	70-130	0.9	25
1,2,4-Trimethylbenzene	20.6		µg/l		20.0		103	70-130	2	25
1,3,5-Trimethylbenzene	19.7		µg/l		20.0		98	70-130	2	25
Vinyl chloride	21.6		µg/l		20.0		108	70-130	2	25
m,p-Xylene	38.6		µg/l		40.0		96	70-130	2	25
o-Xylene	19.9		µg/l		20.0		100	70-130	2	25
Tetrahydrofuran	15.4		µg/l		20.0		77	70-130	1	25
Ethyl ether	17.2		µg/l		20.0		86	70-132	4	50
Tert-amyl methyl ether	16.5		µg/l		20.0		82	70-130	2	25
Ethyl tert-butyl ether	17.5		µg/l		20.0		88	70-130	2	25
Di-isopropyl ether	17.3		µg/l		20.0		87	70-130	1	25
Tert-Butanol / butyl alcohol	129	QC2	µg/l		200		65	70-130	0.9	25
1,4-Dioxane	151		µg/l		200		75	43.1-144	3	25
trans-1,4-Dichloro-2-butene	16.3		µg/l		20.0		82	70-130	2	25
Ethanol	321		µg/l		400		80	70-130	0.5	30
Surrogate: 4-Bromofluorobenzene	30.2		µg/l		30.0		101	70-130		
Surrogate: Toluene-d8	29.7		µg/l		30.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	28.3		µg/l		30.0		94	70-130		
Surrogate: Dibromofluoromethane	29.9		µg/l		30.0		100	70-130		
<u>Matrix Spike (8090855-MS1)</u> Source: SA84228-07										
Prepared & Analyzed: 11-Sep-08										
Benzene	23.2		µg/l		20.0	BRL	116	70-130		
Chlorobenzene	23.9		µg/l		20.0	BRL	119	70-130		
1,1-Dichloroethene	24.5		µg/l		20.0	BRL	123	70-130		
Toluene	22.9		µg/l		20.0	BRL	114	70-130		
Trichloroethene	23.1		µg/l		20.0	BRL	116	70-130		
Surrogate: 4-Bromofluorobenzene	29.8		µg/l		30.0		99	70-130		
Surrogate: Toluene-d8	29.9		µg/l		30.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	28.6		µg/l		30.0		95	70-130		
Surrogate: Dibromofluoromethane	30.2		µg/l		30.0		101	70-130		
<u>Matrix Spike Dup (8090855-MSD1)</u> Source: SA84228-07										
Prepared & Analyzed: 11-Sep-08										
Benzene	22.1		µg/l		20.0	BRL	111	70-130	5	30
Chlorobenzene	22.5		µg/l		20.0	BRL	113	70-130	6	30
1,1-Dichloroethene	22.8		µg/l		20.0	BRL	114	70-130	7	30
Toluene	21.6		µg/l		20.0	BRL	108	70-130	6	30
Trichloroethene	21.6		µg/l		20.0	BRL	108	70-130	7	30
Surrogate: 4-Bromofluorobenzene	30.1		µg/l		30.0		100	70-130		
Surrogate: Toluene-d8	29.8		µg/l		30.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	29.0		µg/l		30.0		97	70-130		
Surrogate: Dibromofluoromethane	30.3		µg/l		30.0		101	70-130		
Batch 8091026 - VPH - EPA 5030B										
<u>Blank (8091026-BLK1)</u>										
Prepared & Analyzed: 15-Sep-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091026 - VPH - EPA 5030B										
<u>Blank (8091026-BLK1)</u>										
Prepared & Analyzed: 15-Sep-08										
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
Benzene	BRL		µg/l	5.0						
Ethylbenzene	BRL		µg/l	5.0						
Methyl tert-butyl ether	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
m,p-Xylene	BRL		µg/l	10.0						
o-Xylene	BRL		µg/l	5.0						
2-Methylpentane	BRL		µg/l	5.0						
n-Nonane	BRL		µg/l	10.0						
n-Pentane	BRL		µg/l	10.0						
1,2,4-Trimethylbenzene	BRL		µg/l	5.0						
2,2,4-Trimethylpentane	BRL		µg/l	5.0						
n-Butylcyclohexane	BRL		µg/l	5.0						
n-Decane	BRL		µg/l	5.0						
Surrogate: 2,5-Dibromotoluene (FID)	52.3		µg/l		50.0		105	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	43.0		µg/l		50.0		86	70-130		
<u>LCS (8091026-BS1)</u>										
Prepared & Analyzed: 15-Sep-08										
C5-C8 Aliphatic Hydrocarbons	134		mg/l		140		96	70-130		
C9-C12 Aliphatic Hydrocarbons	60.2		mg/l		55.2		109	70-130		
C9-C10 Aromatic Hydrocarbons	32.3		mg/l		40.0		81	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	255		mg/l		280		91	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	92.5		mg/l		84.8		109	70-130		
Benzene	17.7		µg/l		20.0		88	70-130		
Ethylbenzene	17.5		µg/l		20.0		88	70-130		
Methyl tert-butyl ether	16.2		µg/l		20.0		81	70-130		
Naphthalene	15.6		µg/l		20.0		78	70-130		
Toluene	17.5		µg/l		20.0		88	70-130		
m,p-Xylene	34.6		µg/l		40.0		87	70-130		
o-Xylene	17.5		µg/l		20.0		88	70-130		
2-Methylpentane	21.3		µg/l		20.0		106	70-130		
n-Nonane	20.3		µg/l		20.0		102	70-130		
n-Pentane	20.9		µg/l		20.0		105	70-130		
1,2,4-Trimethylbenzene	17.2		µg/l		20.0		86	70-130		
2,2,4-Trimethylpentane	20.3		µg/l		20.0		102	70-130		
n-Butylcyclohexane	20.4		µg/l		20.0		102	70-130		
n-Decane	18.4		µg/l		20.0		92	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	47.0		µg/l		50.0		94	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	35.0		µg/l		50.0		70	70-130		
<u>LCS Dup (8091026-BSD1)</u>										
Prepared & Analyzed: 15-Sep-08										
C5-C8 Aliphatic Hydrocarbons	137		mg/l		140		98	70-130	2	25
C9-C12 Aliphatic Hydrocarbons	68.8		mg/l		55.2		125	70-130	13	25
C9-C10 Aromatic Hydrocarbons	32.1		mg/l		40.0		80	70-130	0.7	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	255		mg/l		280		91	70-130	0.2	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	101		mg/l		84.8		119	70-130	9	25
Benzene	17.3		µg/l		20.0		86	70-130	2	25
Ethylbenzene	17.3		µg/l		20.0		87	70-130	1	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091026 - VPH - EPA 5030B										
<u>LCS Dup (8091026-BSD1)</u>										
Prepared & Analyzed: 15-Sep-08										
Methyl tert-butyl ether	15.4		µg/l		20.0		77	70-130	5	25
Naphthalene	15.1		µg/l		20.0		75	70-130	3	25
Toluene	17.2		µg/l		20.0		86	70-130	2	25
m,p-Xylene	34.1		µg/l		40.0		85	70-130	1	25
o-Xylene	17.2		µg/l		20.0		86	70-130	2	25
2-Methylpentane	22.6		µg/l		20.0		113	70-130	6	25
n-Nonane	22.3		µg/l		20.0		111	70-130	9	25
n-Pentane	22.9		µg/l		20.0		115	70-130	9	25
1,2,4-Trimethylbenzene	17.0		µg/l		20.0		85	70-130	2	25
2,2,4-Trimethylpentane	20.4		µg/l		20.0		102	70-130	0.4	25
n-Butylcyclohexane	22.0		µg/l		20.0		110	70-130	7	25
n-Decane	21.9		µg/l		20.0		110	70-130	17	25
Surrogate: 2,5-Dibromotoluene (FID)	49.9		µg/l		50.0		100	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	36.4		µg/l		50.0		73	70-130		
<u>Duplicate (8091026-DUP1)</u> Source: SA84469-06										
Prepared & Analyzed: 15-Sep-08										
C5-C8 Aliphatic Hydrocarbons	0.0106	J	mg/l	0.0750		0.0112			5	50
C9-C12 Aliphatic Hydrocarbons	0.00750	J	mg/l	0.0250		0.00662			12	50
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
Unadjusted C5-C8 Aliphatic Hydrocarbons	0.0106	J	mg/l	0.0750		0.0112			5	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	0.00969	J	mg/l	0.0250		0.00901			7	50
Benzene	BRL		µg/l	5.0		BRL				50
Ethylbenzene	BRL		µg/l	5.0		BRL				50
Methyl tert-butyl ether	BRL		µg/l	5.0		BRL				50
Naphthalene	BRL		µg/l	5.0		BRL				50
Toluene	BRL		µg/l	5.0		BRL				50
m,p-Xylene	BRL		µg/l	10.0		BRL				50
o-Xylene	BRL		µg/l	5.0		BRL				50
Surrogate: 2,5-Dibromotoluene (FID)	47.0		µg/l		50.0		94	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	38.2		µg/l		50.0		76	70-130		
<u>Matrix Spike (8091026-MS1)</u> Source: SA84469-06										
Prepared & Analyzed: 15-Sep-08										
Benzene	18.6		µg/l		20.0	BRL	93	70-130		
Ethylbenzene	18.5		µg/l		20.0	BRL	93	70-130		
Methyl tert-butyl ether	17.0		µg/l		20.0	BRL	85	70-130		
Naphthalene	16.4		µg/l		20.0	BRL	82	70-130		
Toluene	18.5		µg/l		20.0	BRL	93	70-130		
m,p-Xylene	36.6		µg/l		40.0	BRL	92	70-130		
o-Xylene	18.4		µg/l		20.0	BRL	92	70-130		
2-Methylpentane	24.0		µg/l		20.0	BRL	120	70-130		
n-Nonane	22.9		µg/l		20.0	BRL	115	70-130		
n-Pentane	24.3		µg/l		20.0	BRL	122	70-130		
1,2,4-Trimethylbenzene	18.2		µg/l		20.0	BRL	91	70-130		
2,2,4-Trimethylpentane	23.3		µg/l		20.0	BRL	116	70-130		
n-Butylcyclohexane	22.7		µg/l		20.0	BRL	113	70-130		
n-Decane	23.6		µg/l		20.0	BRL	118	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	53.3		µg/l		50.0		107	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	38.8		µg/l		50.0		78	70-130		
Batch 8091173 - VPH - EPA 5030B										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091173 - VPH - EPA 5030B										
<u>Blank (8091173-BLK1)</u>										
Prepared & Analyzed: 16-Sep-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/kg wet	0.250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
Benzene	BRL		µg/kg wet	50.0						
Ethylbenzene	BRL		µg/kg wet	50.0						
Methyl tert-butyl ether	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	50.0						
Toluene	BRL		µg/kg wet	50.0						
m,p-Xylene	BRL		µg/kg wet	100						
o-Xylene	BRL		µg/kg wet	50.0						
2-Methylpentane	BRL		µg/kg wet	50.0						
n-Nonane	BRL		µg/kg wet	100						
n-Pentane	BRL		µg/kg wet	100						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	50.0						
2,2,4-Trimethylpentane	BRL		µg/kg wet	50.0						
n-Butylcyclohexane	BRL		µg/kg wet	50.0						
n-Decane	BRL		µg/kg wet	50.0						
Surrogate: 2,5-Dibromotoluene (FID)	47.3		µg/kg wet		50.0		95	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	40.9		µg/kg wet		50.0		82	70-130		
<u>LCS (8091173-BS1)</u>										
Prepared & Analyzed: 16-Sep-08										
C5-C8 Aliphatic Hydrocarbons	128		mg/kg wet		140		91	70-130		
C9-C12 Aliphatic Hydrocarbons	57.9		mg/kg wet		55.2		105	70-130		
C9-C10 Aromatic Hydrocarbons	28.2		mg/kg wet		40.0		71	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	232		mg/kg wet		280		83	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	86.1		mg/kg wet		84.8		102	70-130		
Benzene	16.3		µg/kg wet		20.0		81	70-130		
Ethylbenzene	16.5		µg/kg wet		20.0		83	70-130		
Methyl tert-butyl ether	21.8		µg/kg wet		20.0		109	70-130		
Naphthalene	15.9		µg/kg wet		20.0		80	70-130		
Toluene	16.2		µg/kg wet		20.0		81	70-130		
m,p-Xylene	33.7		µg/kg wet		40.0		84	70-130		
o-Xylene	17.1		µg/kg wet		20.0		86	70-130		
2-Methylpentane	19.3		µg/kg wet		20.0		96	70-130		
n-Nonane	19.6		µg/kg wet		20.0		98	70-130		
n-Pentane	14.3		µg/kg wet		20.0		71	70-130		
1,2,4-Trimethylbenzene	16.1		µg/kg wet		20.0		81	70-130		
2,2,4-Trimethylpentane	20.6		µg/kg wet		20.0		103	70-130		
n-Butylcyclohexane	19.9		µg/kg wet		20.0		100	70-130		
n-Decane	18.5		µg/kg wet		20.0		93	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	52.5		µg/kg wet		50.0		105	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	44.2		µg/kg wet		50.0		88	70-130		
<u>LCS Dup (8091173-BSD1)</u>										
Prepared & Analyzed: 16-Sep-08										
C5-C8 Aliphatic Hydrocarbons	129		mg/kg wet		140		92	70-130	0.8	25
C9-C12 Aliphatic Hydrocarbons	59.9		mg/kg wet		55.2		109	70-130	4	25
C9-C10 Aromatic Hydrocarbons	29.7		mg/kg wet		40.0		74	70-130	5	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	233		mg/kg wet		280		83	70-130	0.4	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091173 - VPH - EPA 5030B										
<u>LCS Dup (8091173-BSD1)</u>										
Prepared & Analyzed: 16-Sep-08										
Unadjusted C9-C12 Aliphatic Hydrocarbons	89.6		mg/kg wet		84.8		106	70-130	4	25
Benzene	17.8		µg/kg wet		20.0		89	70-130	9	25
Ethylbenzene	17.5		µg/kg wet		20.0		88	70-130	6	25
Methyl tert-butyl ether	14.6	QR7	µg/kg wet		20.0		73	70-130	40	25
Naphthalene	17.7		µg/kg wet		20.0		89	70-130	11	25
Toluene	17.3		µg/kg wet		20.0		87	70-130	7	25
m,p-Xylene	37.3		µg/kg wet		40.0		93	70-130	10	25
o-Xylene	19.1		µg/kg wet		20.0		95	70-130	11	25
2-Methylpentane	20.4		µg/kg wet		20.0		102	70-130	6	25
n-Nonane	21.3		µg/kg wet		20.0		106	70-130	8	25
n-Pentane	15.9		µg/kg wet		20.0		80	70-130	11	25
1,2,4-Trimethylbenzene	17.9		µg/kg wet		20.0		89	70-130	10	25
2,2,4-Trimethylpentane	21.1		µg/kg wet		20.0		106	70-130	2	25
n-Butylcyclohexane	22.3		µg/kg wet		20.0		111	70-130	11	25
n-Decane	19.8		µg/kg wet		20.0		99	70-130	7	25
Surrogate: 2,5-Dibromotoluene (FID)	53.9		µg/kg wet		50.0		108	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	43.8		µg/kg wet		50.0		88	70-130		
<u>Duplicate (8091173-DUP1)</u> Source: SA84228-01										
Prepared & Analyzed: 16-Sep-08										
C5-C8 Aliphatic Hydrocarbons	0.816	J	mg/kg dry	0.953		0.761			7	50
C9-C12 Aliphatic Hydrocarbons	0.123	J	mg/kg dry	0.318		0.108			13	50
C9-C10 Aromatic Hydrocarbons	0.184	J	mg/kg dry	0.318		0.186			1	50
Unadjusted C5-C8 Aliphatic Hydrocarbons	0.816	J	mg/kg dry	0.953		0.761			7	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	0.307	J	mg/kg dry	0.318		0.294			4	50
Benzene	BRL		µg/kg dry	63.6		BRL				50
Ethylbenzene	BRL		µg/kg dry	63.6		BRL				50
Methyl tert-butyl ether	BRL		µg/kg dry	63.6		BRL				50
Naphthalene	32.6	J	µg/kg dry	63.6		BRL				50
Toluene	BRL		µg/kg dry	63.6		BRL				50
m,p-Xylene	BRL		µg/kg dry	127		BRL				50
o-Xylene	BRL		µg/kg dry	63.6		BRL				50
Surrogate: 2,5-Dibromotoluene (FID)	55.9		µg/kg dry		50.0		112	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	49.1		µg/kg dry		50.0		98	70-130		
<u>Matrix Spike (8091173-MS1)</u> Source: SA84228-01										
Prepared & Analyzed: 16-Sep-08										
Benzene	18.6		µg/kg dry		20.0	BRL	93	70-130		
Ethylbenzene	18.6		µg/kg dry		20.0	BRL	93	70-130		
Methyl tert-butyl ether	14.7		µg/kg dry		20.0	BRL	74	70-130		
Naphthalene	17.3		µg/kg dry		20.0	BRL	87	70-130		
Toluene	18.6		µg/kg dry		20.0	BRL	93	70-130		
m,p-Xylene	37.9		µg/kg dry		40.0	BRL	95	70-130		
o-Xylene	18.7		µg/kg dry		20.0	BRL	93	70-130		
2-Methylpentane	20.7		µg/kg dry		20.0	BRL	103	70-130		
n-Nonane	21.3		µg/kg dry		20.0	BRL	107	70-130		
n-Pentane	19.0		µg/kg dry		20.0	BRL	95	70-130		
1,2,4-Trimethylbenzene	14.2		µg/kg dry		20.0	BRL	71	70-130		
2,2,4-Trimethylpentane	20.9		µg/kg dry		20.0	BRL	104	70-130		
n-Butylcyclohexane	22.3		µg/kg dry		20.0	BRL	112	70-130		
n-Decane	21.5		µg/kg dry		20.0	BRL	107	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091173 - VPH - EPA 5030B										
<u>Matrix Spike (8091173-MS1)</u> Source: SA84228-01										
Prepared & Analyzed: 16-Sep-08										
Surrogate: 2,5-Dibromotoluene (FID)	46.4		µg/kg dry		50.0		93	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	38.8		µg/kg dry		50.0		78	70-130		
Batch 8091253 - SW846 5030 Water MS										
<u>Blank (8091253-BLK1)</u>										
Prepared & Analyzed: 17-Sep-08										
Benzene	BRL		µg/l	1.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroform	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	30.4		µg/l		30.0		101	70-130		
Surrogate: Toluene-d8	29.5		µg/l		30.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	26.8		µg/l		30.0		89	70-130		
Surrogate: Dibromofluoromethane	29.0		µg/l		30.0		97	70-130		
<u>LCS (8091253-BS1)</u>										
Prepared & Analyzed: 17-Sep-08										
Benzene	22.8		µg/l		20.0		114	70-130		
2-Butanone (MEK)	18.4		µg/l		20.0		92	70-130		
Carbon tetrachloride	18.6		µg/l		20.0		93	70-130		
Chlorobenzene	22.7		µg/l		20.0		113	70-130		
Chloroform	22.4		µg/l		20.0		112	70-130		
1,2-Dichloroethane	20.5		µg/l		20.0		103	70-130		
1,1-Dichloroethene	25.0		µg/l		20.0		125	70-130		
Tetrachloroethene	22.5		µg/l		20.0		112	70-130		
Trichloroethene	22.3		µg/l		20.0		112	70-130		
Vinyl chloride	27.6	QC2	µg/l		20.0		138	70-130		
Surrogate: 4-Bromofluorobenzene	30.1		µg/l		30.0		100	70-130		
Surrogate: Toluene-d8	29.5		µg/l		30.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	27.3		µg/l		30.0		91	70-130		
Surrogate: Dibromofluoromethane	29.2		µg/l		30.0		97	70-130		
<u>LCS Dup (8091253-BSD1)</u>										
Prepared & Analyzed: 17-Sep-08										
Benzene	23.6		µg/l		20.0		118	70-130	3	30
2-Butanone (MEK)	14.5		µg/l		20.0		73	70-130	23	30
Carbon tetrachloride	19.8		µg/l		20.0		99	70-130	6	30
Chlorobenzene	23.4		µg/l		20.0		117	70-130	3	30
Chloroform	22.8		µg/l		20.0		114	70-130	1	30
1,2-Dichloroethane	19.0		µg/l		20.0		95	70-130	8	30
1,1-Dichloroethene	26.0		µg/l		20.0		130	70-130	4	30
Tetrachloroethene	23.5		µg/l		20.0		118	70-130	4	30
Trichloroethene	23.1		µg/l		20.0		115	70-130	3	30
Vinyl chloride	35.7	QC2	µg/l		20.0		179	70-130	26	30
Surrogate: 4-Bromofluorobenzene	29.5		µg/l		30.0		98	70-130		
Surrogate: Toluene-d8	29.2		µg/l		30.0		97	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091253 - SW846 5030 Water MS										
<u>LCS Dup (8091253-BSD1)</u>										
Prepared & Analyzed: 17-Sep-08										
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/l		30.0		83	70-130		
Surrogate: Dibromofluoromethane	28.6		µg/l		30.0		95	70-130		
<u>Matrix Spike (8091253-MS1)</u> Source: SA84228-02										
Prepared & Analyzed: 17-Sep-08										
Benzene	21.8		µg/l		20.0	BRL	109	70-130		
Chlorobenzene	21.7		µg/l		20.0	BRL	108	70-130		
1,1-Dichloroethene	22.2		µg/l		20.0	BRL	111	70-130		
Toluene	21.3		µg/l		20.0	BRL	107	70-130		
Trichloroethene	21.1		µg/l		20.0	BRL	106	70-130		
Surrogate: 4-Bromofluorobenzene	29.9		µg/l		30.0		100	70-130		
Surrogate: Toluene-d8	29.6		µg/l		30.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	27.7		µg/l		30.0		92	70-130		
Surrogate: Dibromofluoromethane	29.3		µg/l		30.0		98	70-130		
<u>Matrix Spike Dup (8091253-MSD1)</u> Source: SA84228-02										
Prepared & Analyzed: 17-Sep-08										
Benzene	21.7		µg/l		20.0	BRL	109	70-130	0.5	30
Chlorobenzene	21.9		µg/l		20.0	BRL	110	70-130	1	30
1,1-Dichloroethene	22.1		µg/l		20.0	BRL	110	70-130	0.4	30
Toluene	21.4		µg/l		20.0	BRL	107	70-130	0.6	30
Trichloroethene	21.5		µg/l		20.0	BRL	108	70-130	2	30
Surrogate: 4-Bromofluorobenzene	29.7		µg/l		30.0		99	70-130		
Surrogate: Toluene-d8	29.7		µg/l		30.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	28.0		µg/l		30.0		93	70-130		
Surrogate: Dibromofluoromethane	29.4		µg/l		30.0		98	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090582 - SW846 3510C										
<u>Blank (8090582-BLK1)</u>										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Atrazine	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090582 - SW846 3510C										
<u>Blank (8090582-BLK1)</u>										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	20.0						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	20.0						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	20.0						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
1-Methylnaphthalene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Pentachloronitrobenzene	BRL		µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	37.0		µg/l		50.0		74	30-130		
Surrogate: 2-Fluorophenol	36.2		µg/l		50.0		72	15-110		
Surrogate: Nitrobenzene-d5	32.3		µg/l		50.0		65	30-130		
Surrogate: Phenol-d5	38.8		µg/l		50.0		78	15-110		
Surrogate: Terphenyl-dl4	38.3		µg/l		50.0		77	30-130		
Surrogate: 2,4,6-Tribromophenol	51.2		µg/l		50.0		102	15-110		
<u>LCS (8090582-BS1)</u>										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Acenaphthene	37.3		µg/l	5.00	50.0		75	40-130		
Acenaphthylene	34.8		µg/l	5.00	50.0		70	40-130		
Aniline	27.8		µg/l	5.00	50.0		56	40-130		
Anthracene	38.0		µg/l	5.00	50.0		76	40-130		
Atrazine	44.9		µg/l	5.00	50.0		90	40-130		
Azobenzene/Diphenyldiazine	32.3		µg/l	5.00	50.0		65	40-130		
Benzidine	15.2		µg/l	5.00	50.0		30	0-194		
Benzo (a) anthracene	41.6		µg/l	5.00	50.0		83	40-130		
Benzo (a) pyrene	39.6		µg/l	5.00	50.0		79	40-130		
Benzo (b) fluoranthene	41.3		µg/l	5.00	50.0		83	40-130		
Benzo (g,h,i) perylene	37.8		µg/l	5.00	50.0		76	40-130		
Benzo (k) fluoranthene	37.7		µg/l	5.00	50.0		75	40-130		
Benzoic acid	39.6		µg/l	5.00	50.0		79	42.5-130		
Benzyl alcohol	24.5		µg/l	5.00	50.0		49	40-130		
Bis(2-chloroethoxy)methane	36.3		µg/l	5.00	50.0		73	40-130		
Bis(2-chloroethyl)ether	34.0		µg/l	5.00	50.0		68	40-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090582 - SW846 3510C										
<u>LCS (8090582-BS1)</u>										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Bis(2-chloroisopropyl)ether	31.0		µg/l	5.00	50.0		62	40-130		
Bis(2-ethylhexyl)phthalate	47.4		µg/l	5.00	50.0		95	40-130		
4-Bromophenyl phenyl ether	45.4		µg/l	5.00	50.0		91	40-130		
Butyl benzyl phthalate	45.0		µg/l	5.00	50.0		90	40-130		
Carbazole	38.5		µg/l	5.00	50.0		77	40-130		
4-Chloro-3-methylphenol	35.0		µg/l	5.00	50.0		70	40-130		
4-Chloroaniline	31.2		µg/l	5.00	50.0		62	40-130		
2-Chloronaphthalene	34.2		µg/l	5.00	50.0		68	40-130		
2-Chlorophenol	31.8		µg/l	5.00	50.0		64	40-130		
4-Chlorophenyl phenyl ether	44.0		µg/l	5.00	50.0		88	40-130		
Chrysene	41.7		µg/l	5.00	50.0		83	40-130		
Dibenzo (a,h) anthracene	40.6		µg/l	5.00	50.0		81	40-130		
Dibenzofuran	35.6		µg/l	5.00	50.0		71	40-130		
1,2-Dichlorobenzene	31.5		µg/l	5.00	50.0		63	40-130		
1,3-Dichlorobenzene	29.8		µg/l	5.00	50.0		60	40-130		
1,4-Dichlorobenzene	32.5		µg/l	5.00	50.0		65	40-130		
3,3'-Dichlorobenzidine	44.7		µg/l	5.00	50.0		89	40-130		
2,4-Dichlorophenol	36.6		µg/l	5.00	50.0		73	40-130		
Diethyl phthalate	58.9		µg/l	5.00	50.0		118	40-130		
Dimethyl phthalate	42.5		µg/l	5.00	50.0		85	40-130		
2,4-Dimethylphenol	35.0		µg/l	5.00	50.0		70	40-130		
Di-n-butyl phthalate	41.5		µg/l	5.00	50.0		83	40-130		
4,6-Dinitro-2-methylphenol	40.4		µg/l	5.00	50.0		81	40-130		
2,4-Dinitrophenol	40.2		µg/l	5.00	50.0		80	40-130		
2,4-Dinitrotoluene	38.7		µg/l	5.00	50.0		77	40-130		
2,6-Dinitrotoluene	38.6		µg/l	5.00	50.0		77	40-130		
Di-n-octyl phthalate	44.5		µg/l	5.00	50.0		89	40-130		
Fluoranthene	40.0		µg/l	5.00	50.0		80	40-130		
Fluorene	52.3		µg/l	5.00	50.0		105	40-130		
Hexachlorobenzene	38.4		µg/l	5.00	50.0		77	40-130		
Hexachlorobutadiene	35.6		µg/l	5.00	50.0		71	40-130		
Hexachlorocyclopentadiene	28.5		µg/l	5.00	50.0		57	40-130		
Hexachloroethane	34.0		µg/l	5.00	50.0		68	40-130		
Indeno (1,2,3-cd) pyrene	39.4		µg/l	5.00	50.0		79	40-130		
Isophorone	28.9		µg/l	5.00	50.0		58	40-130		
2-Methylnaphthalene	35.2		µg/l	5.00	50.0		70	40-130		
2-Methylphenol	33.3		µg/l	5.00	50.0		67	40-130		
3 & 4-Methylphenol	37.7		µg/l	10.0	50.0		75	40-130		
Naphthalene	34.7		µg/l	5.00	50.0		69	40-130		
2-Nitroaniline	36.7		µg/l	5.00	50.0		73	40-130		
3-Nitroaniline	36.2		µg/l	5.00	50.0		72	40-130		
4-Nitroaniline	36.5		µg/l	20.0	50.0		73	40-130		
Nitrobenzene	29.9		µg/l	5.00	50.0		60	40-130		
2-Nitrophenol	36.2		µg/l	5.00	50.0		72	40-130		
4-Nitrophenol	38.4		µg/l	20.0	50.0		77	40-130		
N-Nitrosodimethylamine	31.2		µg/l	5.00	50.0		62	40-130		
N-Nitrosodi-n-propylamine	32.8		µg/l	5.00	50.0		66	40-130		
N-Nitrosodiphenylamine	44.6		µg/l	5.00	50.0		89	40-130		
Pentachlorophenol	43.0		µg/l	20.0	50.0		86	40-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090582 - SW846 3510C										
<u>LCS (8090582-BS1)</u>										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Phenanthrene	37.6		µg/l	5.00	50.0		75	40-130		
Phenol	34.0		µg/l	5.00	50.0		68	40-130		
Pyrene	42.5		µg/l	5.00	50.0		85	40-130		
Pyridine	25.8		µg/l	5.00	50.0		52	0-138		
1,2,4-Trichlorobenzene	34.1		µg/l	5.00	50.0		68	40-130		
1-Methylnaphthalene	36.3		µg/l	5.00	50.0		73	40-140		
2,4,5-Trichlorophenol	38.6		µg/l	5.00	50.0		77	40-130		
2,4,6-Trichlorophenol	34.2		µg/l	5.00	50.0		68	40-130		
Pentachloronitrobenzene	34.8		µg/l	5.00	50.0		70	40-140		
1,2,4,5-Tetrachlorobenzene	31.4		µg/l	5.00	50.0		63	40-140		
Surrogate: 2-Fluorobiphenyl	34.8		µg/l		50.0		70	30-130		
Surrogate: 2-Fluorophenol	28.7		µg/l		50.0		57	15-110		
Surrogate: Nitrobenzene-d5	29.1		µg/l		50.0		58	30-130		
Surrogate: Phenol-d5	30.6		µg/l		50.0		61	15-110		
Surrogate: Terphenyl-dl4	39.4		µg/l		50.0		79	30-130		
Surrogate: 2,4,6-Tribromophenol	46.0		µg/l		50.0		92	15-110		
<u>Duplicate (8090582-DUP1)</u> Source: SA84217-08										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
Acenaphthene	BRL		µg/l	5.26		BRL				50
Acenaphthylene	BRL		µg/l	5.26		BRL				50
Aniline	BRL		µg/l	5.26		BRL				50
Anthracene	BRL		µg/l	5.26		BRL				50
Atrazine	BRL		µg/l	5.26		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/l	5.26		BRL				50
Benzidine	BRL		µg/l	5.26		BRL				50
Benzo (a) anthracene	BRL		µg/l	5.26		BRL				50
Benzo (a) pyrene	BRL		µg/l	5.26		BRL				50
Benzo (b) fluoranthene	BRL		µg/l	5.26		BRL				50
Benzo (g,h,i) perylene	BRL		µg/l	5.26		BRL				50
Benzo (k) fluoranthene	BRL		µg/l	5.26		BRL				50
Benzoic acid	BRL		µg/l	5.26		BRL				50
Benzyl alcohol	BRL		µg/l	5.26		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/l	5.26		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/l	5.26		BRL				50
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.26		BRL				50
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.26		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/l	5.26		BRL				50
Butyl benzyl phthalate	BRL		µg/l	5.26		BRL				50
Carbazole	BRL		µg/l	5.26		BRL				50
4-Chloro-3-methylphenol	BRL		µg/l	5.26		BRL				50
4-Chloroaniline	BRL		µg/l	5.26		BRL				50
2-Chloronaphthalene	BRL		µg/l	5.26		BRL				50
2-Chlorophenol	BRL		µg/l	5.26		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/l	5.26		BRL				50
Chrysene	BRL		µg/l	5.26		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/l	5.26		BRL				50
Dibenzofuran	BRL		µg/l	5.26		BRL				50
1,2-Dichlorobenzene	BRL		µg/l	5.26		BRL				50
1,3-Dichlorobenzene	BRL		µg/l	5.26		BRL				50
1,4-Dichlorobenzene	BRL		µg/l	5.26		BRL				50

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090582 - SW846 3510C										
<u>Duplicate (8090582-DUP1)</u> Source: SA84217-08										
Prepared: 09-Sep-08 Analyzed: 11-Sep-08										
3,3'-Dichlorobenzidine	BRL		µg/l	5.26		BRL				50
2,4-Dichlorophenol	BRL		µg/l	5.26		BRL				50
Diethyl phthalate	BRL		µg/l	5.26		BRL				50
Dimethyl phthalate	BRL		µg/l	5.26		BRL				50
2,4-Dimethylphenol	BRL		µg/l	5.26		BRL				50
Di-n-butyl phthalate	BRL		µg/l	5.26		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.26		BRL				50
2,4-Dinitrophenol	BRL		µg/l	5.26		BRL				50
2,4-Dinitrotoluene	BRL		µg/l	5.26		BRL				50
2,6-Dinitrotoluene	BRL		µg/l	5.26		BRL				50
Di-n-octyl phthalate	BRL		µg/l	5.26		BRL				50
Fluoranthene	BRL		µg/l	5.26		BRL				50
Fluorene	BRL		µg/l	5.26		BRL				50
Hexachlorobenzene	BRL		µg/l	5.26		BRL				50
Hexachlorobutadiene	BRL		µg/l	5.26		BRL				50
Hexachlorocyclopentadiene	BRL		µg/l	5.26		BRL				50
Hexachloroethane	BRL		µg/l	5.26		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.26		BRL				50
Isophorone	BRL		µg/l	5.26		BRL				50
2-Methylnaphthalene	BRL		µg/l	5.26		BRL				50
2-Methylphenol	BRL		µg/l	5.26		BRL				50
3 & 4-Methylphenol	BRL		µg/l	10.5		BRL				50
Naphthalene	BRL		µg/l	5.26		BRL				50
2-Nitroaniline	BRL		µg/l	5.26		BRL				50
3-Nitroaniline	BRL		µg/l	5.26		BRL				50
4-Nitroaniline	BRL		µg/l	21.1		BRL				50
Nitrobenzene	BRL		µg/l	5.26		BRL				50
2-Nitrophenol	BRL		µg/l	5.26		BRL				50
4-Nitrophenol	BRL		µg/l	21.1		BRL				50
N-Nitrosodimethylamine	BRL		µg/l	5.26		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/l	5.26		BRL				50
N-Nitrosodiphenylamine	BRL		µg/l	5.26		BRL				50
Pentachlorophenol	BRL		µg/l	21.1		BRL				50
Phenanthrene	BRL		µg/l	5.26		BRL				50
Phenol	BRL		µg/l	5.26		BRL				50
Pyrene	BRL		µg/l	5.26		BRL				50
Pyridine	BRL		µg/l	5.26		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/l	5.26		BRL				50
1-Methylnaphthalene	BRL		µg/l	5.26		BRL				50
2,4,5-Trichlorophenol	BRL		µg/l	5.26		BRL				50
2,4,6-Trichlorophenol	BRL		µg/l	5.26		BRL				50
Pentachloronitrobenzene	BRL		µg/l	5.26		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.26		BRL				50
Surrogate: 2-Fluorobiphenyl	40.4		µg/l		52.6		77	30-130		
Surrogate: 2-Fluorophenol	39.2		µg/l		52.6		74	15-110		
Surrogate: Nitrobenzene-d5	33.9		µg/l		52.6		64	30-130		
Surrogate: Phenol-d5	42.0		µg/l		52.6		80	15-110		
Surrogate: Terphenyl-dl4	41.5		µg/l		52.6		79	30-130		
Surrogate: 2,4,6-Tribromophenol	58.2	SGC	µg/l		52.6		111	15-110		
Batch 8091025 - SW846 3545A										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
Blank (8091025-BLK1)										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Acenaphthene	BRL		µg/kg wet	330						
Acenaphthylene	BRL		µg/kg wet	330						
Aniline	BRL		µg/kg wet	330						
Anthracene	BRL		µg/kg wet	330						
Atrazine	BRL		µg/kg wet	330						
Azobenzene/Diphenyldiazine	BRL		µg/kg wet	330						
Benzidine	BRL		µg/kg wet	330						
Benzo (a) anthracene	BRL		µg/kg wet	330						
Benzo (a) pyrene	BRL		µg/kg wet	330						
Benzo (b) fluoranthene	BRL		µg/kg wet	330						
Benzo (g,h,i) perylene	BRL		µg/kg wet	330						
Benzo (k) fluoranthene	BRL		µg/kg wet	330						
Benzoic acid	BRL		µg/kg wet	330						
Benzyl alcohol	BRL		µg/kg wet	330						
Bis(2-chloroethoxy)methane	BRL		µg/kg wet	330						
Bis(2-chloroethyl)ether	BRL		µg/kg wet	330						
Bis(2-chloroisopropyl)ether	BRL		µg/kg wet	330						
Bis(2-ethylhexyl)phthalate	BRL		µg/kg wet	330						
4-Bromophenyl phenyl ether	BRL		µg/kg wet	330						
Butyl benzyl phthalate	BRL		µg/kg wet	330						
Carbazole	BRL		µg/kg wet	330						
4-Chloro-3-methylphenol	BRL		µg/kg wet	330						
4-Chloroaniline	BRL		µg/kg wet	330						
2-Chloronaphthalene	BRL		µg/kg wet	330						
2-Chlorophenol	BRL		µg/kg wet	330						
4-Chlorophenyl phenyl ether	BRL		µg/kg wet	330						
Chrysene	BRL		µg/kg wet	330						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	330						
Dibenzofuran	BRL		µg/kg wet	330						
1,2-Dichlorobenzene	BRL		µg/kg wet	330						
1,3-Dichlorobenzene	BRL		µg/kg wet	330						
1,4-Dichlorobenzene	BRL		µg/kg wet	330						
3,3'-Dichlorobenzidine	BRL		µg/kg wet	330						
2,4-Dichlorophenol	BRL		µg/kg wet	330						
Diethyl phthalate	BRL		µg/kg wet	330						
Dimethyl phthalate	BRL		µg/kg wet	330						
2,4-Dimethylphenol	BRL		µg/kg wet	330						
Di-n-butyl phthalate	BRL		µg/kg wet	330						
4,6-Dinitro-2-methylphenol	BRL		µg/kg wet	330						
2,4-Dinitrophenol	BRL		µg/kg wet	330						
2,4-Dinitrotoluene	BRL		µg/kg wet	330						
2,6-Dinitrotoluene	BRL		µg/kg wet	330						
Di-n-octyl phthalate	BRL		µg/kg wet	330						
Fluoranthene	BRL		µg/kg wet	330						
Fluorene	BRL		µg/kg wet	330						
Hexachlorobenzene	BRL		µg/kg wet	330						
Hexachlorobutadiene	BRL		µg/kg wet	330						
Hexachlorocyclopentadiene	BRL		µg/kg wet	330						
Hexachloroethane	BRL		µg/kg wet	330						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	330						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
<u>Blank (8091025-BLK1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Isophorone	BRL		µg/kg wet	330						
1-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylphenol	BRL		µg/kg wet	330						
3 & 4-Methylphenol	BRL		µg/kg wet	330						
Naphthalene	BRL		µg/kg wet	330						
2-Nitroaniline	BRL		µg/kg wet	330						
3-Nitroaniline	BRL		µg/kg wet	330						
4-Nitroaniline	BRL		µg/kg wet	1320						
Nitrobenzene	BRL		µg/kg wet	330						
2-Nitrophenol	BRL		µg/kg wet	330						
4-Nitrophenol	BRL		µg/kg wet	1320						
N-Nitrosodimethylamine	BRL		µg/kg wet	330						
N-Nitrosodi-n-propylamine	BRL		µg/kg wet	330						
N-Nitrosodiphenylamine	BRL		µg/kg wet	330						
Pentachlorophenol	BRL		µg/kg wet	330						
Phenanthrene	BRL		µg/kg wet	330						
Phenol	BRL		µg/kg wet	330						
Pyrene	BRL		µg/kg wet	330						
Pyridine	BRL		µg/kg wet	330						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	330						
2,4,5-Trichlorophenol	BRL		µg/kg wet	330						
2,4,6-Trichlorophenol	BRL		µg/kg wet	330						
Pentachloronitrobenzene	BRL		µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	2140		µg/kg wet		3330		64	30-130		
Surrogate: 2-Fluorophenol	2200		µg/kg wet		3330		66	15-110		
Surrogate: Nitrobenzene-d5	2040		µg/kg wet		3330		61	30-130		
Surrogate: Phenol-d5	2240		µg/kg wet		3330		67	15-110		
Surrogate: Terphenyl-dl4	2120		µg/kg wet		3330		64	30-130		
Surrogate: 2,4,6-Tribromophenol	2250		µg/kg wet		3330		67	15-110		
<u>LCS (8091025-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Acenaphthene	2310		µg/kg wet	330	3330		69	40-130		
Acenaphthylene	2130		µg/kg wet	330	3330		64	40-130		
Aniline	1750		µg/kg wet	330	3330		52	40-130		
Anthracene	2190		µg/kg wet	330	3330		66	40-130		
Atrazine	2620		µg/kg wet	330	3330		79	40-130		
Azobenzene/Diphenyldiazine	2270		µg/kg wet	330	3330		68	40-130		
Benzidine	332		µg/kg wet	330	3330		10	0-153		
Benzo (a) anthracene	2540		µg/kg wet	330	3330		76	40-130		
Benzo (a) pyrene	2250		µg/kg wet	330	3330		67	40-130		
Benzo (b) fluoranthene	2150		µg/kg wet	330	3330		64	40-130		
Benzo (g,h,i) perylene	2160		µg/kg wet	330	3330		65	40-130		
Benzo (k) fluoranthene	2370		µg/kg wet	330	3330		71	40-130		
Benzoic acid	1920		µg/kg wet	330	3330		58	0-130		
Benzyl alcohol	2970		µg/kg wet	330	3330		89	40-130		
Bis(2-chloroethoxy)methane	2740		µg/kg wet	330	3330		82	40-130		
Bis(2-chloroethyl)ether	2880		µg/kg wet	330	3330		86	40-130		
Bis(2-chloroisopropyl)ether	2770		µg/kg wet	330	3330		83	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
<u>LCS (8091025-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Bis(2-ethylhexyl)phthalate	2960		µg/kg wet	330	3330		89	40-130		
4-Bromophenyl phenyl ether	2560		µg/kg wet	330	3330		77	40-130		
Butyl benzyl phthalate	2940		µg/kg wet	330	3330		88	40-130		
Carbazole	2240		µg/kg wet	330	3330		67	40-130		
4-Chloro-3-methylphenol	2300		µg/kg wet	330	3330		69	40-130		
4-Chloroaniline	2040		µg/kg wet	330	3330		61	40-130		
2-Chloronaphthalene	2160		µg/kg wet	330	3330		65	40-130		
2-Chlorophenol	2240		µg/kg wet	330	3330		67	40-130		
4-Chlorophenyl phenyl ether	2410		µg/kg wet	330	3330		72	40-130		
Chrysene	2520		µg/kg wet	330	3330		76	40-130		
Dibenzo (a,h) anthracene	2200		µg/kg wet	330	3330		66	40-130		
Dibenzofuran	2210		µg/kg wet	330	3330		66	40-130		
1,2-Dichlorobenzene	2150		µg/kg wet	330	3330		65	40-130		
1,3-Dichlorobenzene	2180		µg/kg wet	330	3330		65	40-130		
1,4-Dichlorobenzene	2160		µg/kg wet	330	3330		65	40-130		
3,3'-Dichlorobenzidine	2550		µg/kg wet	330	3330		77	40-130		
2,4-Dichlorophenol	2260		µg/kg wet	330	3330		68	40-130		
Diethyl phthalate	2670		µg/kg wet	330	3330		80	40-130		
Dimethyl phthalate	2470		µg/kg wet	330	3330		74	40-130		
2,4-Dimethylphenol	2200		µg/kg wet	330	3330		66	40-130		
Di-n-butyl phthalate	2560		µg/kg wet	330	3330		77	40-130		
4,6-Dinitro-2-methylphenol	2040		µg/kg wet	330	3330		61	40-130		
2,4-Dinitrophenol	1660		µg/kg wet	330	3330		50	40-130		
2,4-Dinitrotoluene	2220		µg/kg wet	330	3330		67	40-130		
2,6-Dinitrotoluene	2220		µg/kg wet	330	3330		67	40-130		
Di-n-octyl phthalate	2800		µg/kg wet	330	3330		84	40-130		
Fluoranthene	2190		µg/kg wet	330	3330		66	40-130		
Fluorene	2070		µg/kg wet	330	3330		62	40-130		
Hexachlorobenzene	2150		µg/kg wet	330	3330		64	40-130		
Hexachlorobutadiene	2230		µg/kg wet	330	3330		67	40-130		
Hexachlorocyclopentadiene	1770		µg/kg wet	330	3330		53	40-130		
Hexachloroethane	1920		µg/kg wet	330	3330		58	40-130		
Indeno (1,2,3-cd) pyrene	2200		µg/kg wet	330	3330		66	40-130		
Isophorone	2180		µg/kg wet	330	3330		66	40-130		
1-Methylnaphthalene	2200		µg/kg wet	330	3330		66	40-140		
2-Methylnaphthalene	2200		µg/kg wet	330	3330		66	40-130		
2-Methylphenol	2300		µg/kg wet	330	3330		69	40-130		
3 & 4-Methylphenol	2550		µg/kg wet	330	3330		76	40-130		
Naphthalene	2300		µg/kg wet	330	3330		69	40-130		
2-Nitroaniline	2260		µg/kg wet	330	3330		68	40-130		
3-Nitroaniline	2150		µg/kg wet	330	3330		65	40-130		
4-Nitroaniline	2290		µg/kg wet	1320	3330		69	40-130		
Nitrobenzene	2270		µg/kg wet	330	3330		68	40-130		
2-Nitrophenol	2300		µg/kg wet	330	3330		69	40-130		
4-Nitrophenol	2010		µg/kg wet	1320	3330		60	40-130		
N-Nitrosodimethylamine	2640		µg/kg wet	330	3330		79	40-130		
N-Nitrosodi-n-propylamine	2500		µg/kg wet	330	3330		75	40-130		
N-Nitrosodiphenylamine	2590		µg/kg wet	330	3330		78	40-130		
Pentachlorophenol	2330		µg/kg wet	330	3330		70	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
<u>LCS (8091025-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Phenanthrene	2240		µg/kg wet	330	3330		67	40-130		
Phenol	2400		µg/kg wet	330	3330		72	40-130		
Pyrene	2540		µg/kg wet	330	3330		76	40-130		
Pyridine	851		µg/kg wet	330	3330		26	0-130		
1,2,4-Trichlorobenzene	2210		µg/kg wet	330	3330		66	40-130		
2,4,5-Trichlorophenol	2230		µg/kg wet	330	3330		67	40-130		
2,4,6-Trichlorophenol	2000		µg/kg wet	330	3330		60	40-130		
Pentachloronitrobenzene	2030		µg/kg wet	330	3330		61	40-140		
1,2,4,5-Tetrachlorobenzene	1960		µg/kg wet	330	3330		59	40-140		
Surrogate: 2-Fluorobiphenyl	2180		µg/kg wet		3330		65	30-130		
Surrogate: 2-Fluorophenol	2290		µg/kg wet		3330		69	15-110		
Surrogate: Nitrobenzene-d5	2240		µg/kg wet		3330		67	30-130		
Surrogate: Phenol-d5	2300		µg/kg wet		3330		69	15-110		
Surrogate: Terphenyl-dl4	2350		µg/kg wet		3330		70	30-130		
Surrogate: 2,4,6-Tribromophenol	2400		µg/kg wet		3330		72	15-110		
<u>Duplicate (8091025-DUP1)</u> Source: SA84450-15										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Acenaphthene	BRL		µg/kg dry	341		BRL				50
Acenaphthylene	BRL		µg/kg dry	341		BRL				50
Aniline	BRL		µg/kg dry	341		BRL				50
Anthracene	50.2	J	µg/kg dry	341		BRL				50
Atrazine	BRL		µg/kg dry	341		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/kg dry	341		BRL				50
Benzidine	BRL		µg/kg dry	341		BRL				50
Benzo (a) anthracene	180	J,QM4	µg/kg dry	341		91.9			65	50
Benzo (a) pyrene	154	J,QM4	µg/kg dry	341		72.7			72	50
Benzo (b) fluoranthene	114	J	µg/kg dry	341		BRL				50
Benzo (g,h,i) perylene	75.0	J	µg/kg dry	341		BRL				50
Benzo (k) fluoranthene	155	J,QM4	µg/kg dry	341		80.9			63	50
Benzoic acid	BRL		µg/kg dry	341		BRL				50
Benzyl alcohol	BRL		µg/kg dry	341		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/kg dry	341		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/kg dry	341		BRL				50
Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	341		BRL				50
Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	341		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/kg dry	341		BRL				50
Butyl benzyl phthalate	BRL		µg/kg dry	341		BRL				50
Carbazole	37.2	J	µg/kg dry	341		BRL				50
4-Chloro-3-methylphenol	BRL		µg/kg dry	341		BRL				50
4-Chloroaniline	BRL		µg/kg dry	341		BRL				50
2-Chloronaphthalene	BRL		µg/kg dry	341		BRL				50
2-Chlorophenol	BRL		µg/kg dry	341		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/kg dry	341		BRL				50
Chrysene	212	J,QM4	µg/kg dry	341		97.4			74	50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	341		BRL				50
Dibenzofuran	BRL		µg/kg dry	341		BRL				50
1,2-Dichlorobenzene	BRL		µg/kg dry	341		BRL				50
1,3-Dichlorobenzene	BRL		µg/kg dry	341		BRL				50
1,4-Dichlorobenzene	BRL		µg/kg dry	341		BRL				50
3,3'-Dichlorobenzidine	BRL		µg/kg dry	341		BRL				50

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
<u>Duplicate (8091025-DUP1)</u> Source: SA84450-15										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
2,4-Dichlorophenol	BRL		µg/kg dry	341		BRL				50
Diethyl phthalate	BRL		µg/kg dry	341		BRL				50
Dimethyl phthalate	BRL		µg/kg dry	341		BRL				50
2,4-Dimethylphenol	BRL		µg/kg dry	341		BRL				50
Di-n-butyl phthalate	BRL		µg/kg dry	341		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	341		BRL				50
2,4-Dinitrophenol	BRL		µg/kg dry	341		BRL				50
2,4-Dinitrotoluene	BRL		µg/kg dry	341		BRL				50
2,6-Dinitrotoluene	BRL		µg/kg dry	341		BRL				50
Di-n-octyl phthalate	BRL		µg/kg dry	341		BRL				50
Fluoranthene	394	QM4	µg/kg dry	341		122			105	50
Fluorene	BRL		µg/kg dry	341		BRL				50
Hexachlorobenzene	BRL		µg/kg dry	341		BRL				50
Hexachlorobutadiene	BRL		µg/kg dry	341		BRL				50
Hexachlorocyclopentadiene	BRL		µg/kg dry	341		BRL				50
Hexachloroethane	BRL		µg/kg dry	341		BRL				50
Indeno (1,2,3-cd) pyrene	77.1	J	µg/kg dry	341		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	341		BRL				50
Isophorone	BRL		µg/kg dry	341		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	341		BRL				50
2-Methylphenol	BRL		µg/kg dry	341		BRL				50
3 & 4-Methylphenol	BRL		µg/kg dry	341		BRL				50
Naphthalene	BRL		µg/kg dry	341		BRL				50
2-Nitroaniline	BRL		µg/kg dry	341		BRL				50
3-Nitroaniline	BRL		µg/kg dry	341		BRL				50
4-Nitroaniline	BRL		µg/kg dry	1360		BRL				50
Nitrobenzene	BRL		µg/kg dry	341		BRL				50
2-Nitrophenol	BRL		µg/kg dry	341		BRL				50
4-Nitrophenol	BRL		µg/kg dry	1360		BRL				50
N-Nitrosodimethylamine	BRL		µg/kg dry	341		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/kg dry	341		BRL				50
N-Nitrosodiphenylamine	BRL		µg/kg dry	341		BRL				50
Pentachlorophenol	BRL		µg/kg dry	341		BRL				50
Phenanthrene	363	QM4	µg/kg dry	341		70.0			135	50
Phenol	BRL		µg/kg dry	341		BRL				50
Pyrene	341	QM4	µg/kg dry	341		129			90	50
Pyridine	BRL		µg/kg dry	341		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/kg dry	341		BRL				50
2,4,5-Trichlorophenol	BRL		µg/kg dry	341		BRL				50
2,4,6-Trichlorophenol	BRL		µg/kg dry	341		BRL				50
Pentachloronitrobenzene	BRL		µg/kg dry	341		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	341		BRL				50
Surrogate: 2-Fluorobiphenyl	1140		µg/kg dry		1720		66	30-130		
Surrogate: 2-Fluorophenol	1000		µg/kg dry		1720		58	15-110		
Surrogate: Nitrobenzene-d5	980		µg/kg dry		1720		57	30-130		
Surrogate: Phenol-d5	1060		µg/kg dry		1720		61	15-110		
Surrogate: Terphenyl-dl4	1110		µg/kg dry		1720		65	30-130		
Surrogate: 2,4,6-Tribromophenol	1040		µg/kg dry		1720		60	15-110		
<u>Matrix Spike (8091025-MS1)</u> Source: SA84450-15										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091025 - SW846 3545A										
Matrix Spike (8091025-MS1) Source: SA84450-15										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Acenaphthene	1030		µg/kg dry	170	1720	BRL	60	40-140		
Benzo (b) fluoranthene	1160		µg/kg dry	170	1720	BRL	67	40-140		
Benzo (k) fluoranthene	1080		µg/kg dry	170	1720	80.9	58	40-140		
4-Chloro-3-methylphenol	981		µg/kg dry	170	1720	BRL	57	30-130		
2-Chlorophenol	963		µg/kg dry	170	1720	BRL	56	30-130		
Chrysene	1310		µg/kg dry	170	1720	97.4	70	40-140		
1,4-Dichlorobenzene	934		µg/kg dry	170	1720	BRL	54	40-140		
Indeno (1,2,3-cd) pyrene	894		µg/kg dry	170	1720	BRL	52	40-140		
Naphthalene	1000		µg/kg dry	170	1720	BRL	58	40-140		
4-Nitrophenol	811		µg/kg dry	680	1720	BRL	47	30-130		
N-Nitrosodi-n-propylamine	1140		µg/kg dry	170	1720	BRL	67	40-140		
Pentachlorophenol	972		µg/kg dry	170	1720	BRL	57	30-130		
Phenol	1010		µg/kg dry	170	1720	BRL	59	30-130		
Pyrene	1440		µg/kg dry	170	1720	129	76	40-140		
1,2,4-Trichlorobenzene	939		µg/kg dry	170	1720	BRL	55	40-140		
Surrogate: 2-Fluorobiphenyl	972		µg/kg dry		1720		57	30-130		
Surrogate: 2-Fluorophenol	968		µg/kg dry		1720		56	15-110		
Surrogate: Nitrobenzene-d5	963		µg/kg dry		1720		56	30-130		
Surrogate: Phenol-d5	975		µg/kg dry		1720		57	15-110		
Surrogate: Terphenyl-dl4	1040		µg/kg dry		1720		60	30-130		
Surrogate: 2,4,6-Tribromophenol	1080		µg/kg dry		1720		63	15-110		
Matrix Spike Dup (8091025-MSD1) Source: SA84450-15										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Acenaphthene	977		µg/kg dry	170	1720	BRL	57	40-140	5	30
Benzo (b) fluoranthene	1200		µg/kg dry	170	1720	BRL	70	40-140	4	30
Benzo (k) fluoranthene	1000		µg/kg dry	170	1720	80.9	54	40-140	8	30
4-Chloro-3-methylphenol	937		µg/kg dry	170	1720	BRL	55	30-130	4	30
2-Chlorophenol	920		µg/kg dry	170	1720	BRL	54	30-130	4	30
Chrysene	1310		µg/kg dry	170	1720	97.4	71	40-140	0.6	30
1,4-Dichlorobenzene	875		µg/kg dry	170	1720	BRL	51	40-140	6	30
Indeno (1,2,3-cd) pyrene	1010		µg/kg dry	170	1720	BRL	59	40-140	12	30
Naphthalene	936		µg/kg dry	170	1720	BRL	55	40-140	6	30
4-Nitrophenol	814		µg/kg dry	679	1720	BRL	47	30-130	0.5	30
N-Nitrosodi-n-propylamine	1110		µg/kg dry	170	1720	BRL	65	40-140	3	30
Pentachlorophenol	962		µg/kg dry	170	1720	BRL	56	30-130	0.9	30
Phenol	986		µg/kg dry	170	1720	BRL	57	30-130	2	30
Pyrene	1500		µg/kg dry	170	1720	129	80	40-140	4	30
1,2,4-Trichlorobenzene	878		µg/kg dry	170	1720	BRL	51	40-140	7	30
Surrogate: 2-Fluorobiphenyl	909		µg/kg dry		1720		53	30-130		
Surrogate: 2-Fluorophenol	913		µg/kg dry		1720		53	15-110		
Surrogate: Nitrobenzene-d5	888		µg/kg dry		1720		52	30-130		
Surrogate: Phenol-d5	940		µg/kg dry		1720		55	15-110		
Surrogate: Terphenyl-dl4	989		µg/kg dry		1720		58	30-130		
Surrogate: 2,4,6-Tribromophenol	1030		µg/kg dry		1720		60	15-110		
Batch 8091128 - SW846 3535										
Blank (8091128-BLK1)										
Prepared & Analyzed: 16-Sep-08										
1,4-Dichlorobenzene	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091128 - SW846 3535										
<u>Blank (8091128-BLK1)</u>										
Prepared & Analyzed: 16-Sep-08										
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Nitrobenzene	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	156		µg/l		200		78	30-130		
Surrogate: 2-Fluorophenol	175		µg/l		200		87	15-110		
Surrogate: Nitrobenzene-d5	158		µg/l		200		79	30-130		
Surrogate: Terphenyl-dl4	147		µg/l		200		74	30-130		
<u>LCS (8091128-BS1)</u>										
Prepared & Analyzed: 16-Sep-08										
1,4-Dichlorobenzene	147		µg/l	5.00	200		74	40-140		
2,4-Dinitrotoluene	158		µg/l	5.00	200		79	40-140		
Hexachlorobenzene	141		µg/l	5.00	200		71	40-140		
Hexachlorobutadiene	147		µg/l	5.00	200		74	40-140		
Hexachloroethane	141		µg/l	5.00	200		70	40-140		
2-Methylphenol	166		µg/l	5.00	200		83	30-130		
3 & 4-Methylphenol	185		µg/l	10.0	200		93	40-130		
Nitrobenzene	159		µg/l	5.00	200		80	40-140		
Pentachlorophenol	153		µg/l	5.00	200		77	30-130		
Pyridine	147		µg/l	5.00	200		74	40-140		
2,4,5-Trichlorophenol	153		µg/l	5.00	200		77	30-130		
2,4,6-Trichlorophenol	136		µg/l	5.00	200		68	30-130		
Surrogate: 2-Fluorobiphenyl	148		µg/l		200		74	30-130		
Surrogate: 2-Fluorophenol	155		µg/l		200		77	15-110		
Surrogate: Nitrobenzene-d5	157		µg/l		200		78	30-130		
Surrogate: Terphenyl-dl4	155		µg/l		200		78	30-130		
<u>Duplicate (8091128-DUP1)</u> Source: SA84464-02										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
1,4-Dichlorobenzene	BRL		µg/l	5.00		BRL				50
2,4-Dinitrotoluene	BRL		µg/l	5.00		BRL				50
Hexachlorobenzene	BRL		µg/l	5.00		BRL				50
Hexachlorobutadiene	BRL		µg/l	5.00		BRL				50
Hexachloroethane	BRL		µg/l	5.00		BRL				50
2-Methylphenol	BRL		µg/l	5.00		BRL				50
3 & 4-Methylphenol	BRL		µg/l	10.0		BRL				50
Nitrobenzene	BRL		µg/l	5.00		BRL				50
Pentachlorophenol	BRL		µg/l	5.00		BRL				50
Pyridine	BRL		µg/l	5.00		BRL				50
2,4,5-Trichlorophenol	BRL		µg/l	5.00		BRL				50
2,4,6-Trichlorophenol	BRL		µg/l	5.00		BRL				50
Surrogate: 2-Fluorobiphenyl	303		µg/l		400		76	30-130		
Surrogate: 2-Fluorophenol	315		µg/l		400		79	15-110		
Surrogate: Nitrobenzene-d5	311		µg/l		400		78	30-130		
Surrogate: Terphenyl-dl4	267		µg/l		400		67	30-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090821 - SW846 3510C										
<u>Blank (8090821-BLK1)</u>										
Prepared: 11-Sep-08 Analyzed: 12-Sep-08										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.210		µg/l		0.200		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.216		µg/l		0.200		108	30-150		
<u>LCS (8090821-BS1)</u>										
Prepared: 11-Sep-08 Analyzed: 12-Sep-08										
PCB 1016	2.40		µg/l	0.200	2.50		96	40-140		
PCB 1260	2.23		µg/l	0.200	2.50		89	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.174		µg/l		0.200		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.190		µg/l		0.200		95	30-150		
<u>LCS Dup (8090821-BSD1)</u>										
Prepared: 11-Sep-08 Analyzed: 12-Sep-08										
PCB 1016	2.33		µg/l	0.200	2.50		93	40-140	3	20
PCB 1260	2.19		µg/l	0.200	2.50		88	40-140	2	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.169		µg/l		0.200		84	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.187		µg/l		0.200		94	30-150		
Batch 8091122 - SW846 3545A										
<u>Blank (8091122-BLK1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.5		µg/kg wet		20.0		88	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.2		µg/kg wet		20.0		71	30-150		
<u>LCS (8091122-BS1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	233		µg/kg wet	20.0	250		93	40-140		
PCB 1260	204		µg/kg wet	20.0	250		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.9		µg/kg wet		20.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.0		µg/kg wet		20.0		80	30-150		
<u>LCS Dup (8091122-BSD1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	238		µg/kg wet	20.0	250		95	40-140	2	30
PCB 1260	208		µg/kg wet	20.0	250		83	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.9		µg/kg wet		20.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.8		µg/kg wet		20.0		69	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8091122 - SW846 3545A										
<u>Duplicate (8091122-DUP1)</u> Source: SA84349-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	BRL		µg/kg dry	20.5		BRL				40
PCB 1221	BRL		µg/kg dry	20.5		BRL				40
PCB 1232	BRL		µg/kg dry	20.5		BRL				40
PCB 1242	BRL		µg/kg dry	20.5		BRL				40
PCB 1248	BRL		µg/kg dry	20.5		BRL				40
PCB 1254	BRL		µg/kg dry	20.5		BRL				40
PCB 1260	BRL		µg/kg dry	20.5		BRL				40
PCB 1262	BRL		µg/kg dry	20.5		BRL				40
PCB 1268	BRL		µg/kg dry	20.5		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		µg/kg dry		20.5		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.4		µg/kg dry		20.5		75	30-150		
<u>Matrix Spike (8091122-MS1)</u> Source: SA84349-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	235		µg/kg dry	20.8	259	BRL	90	40-140		
PCB 1260	216		µg/kg dry	20.8	259	BRL	83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.1		µg/kg dry		20.7		73	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.2		µg/kg dry		20.7		74	30-150		
<u>Matrix Spike Dup (8091122-MSD1)</u> Source: SA84349-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
PCB 1016	239		µg/kg dry	21.1	264	BRL	91	40-140	0.3	50
PCB 1260	218		µg/kg dry	21.1	264	BRL	83	40-140	0.6	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.2		µg/kg dry		21.1		72	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.3		µg/kg dry		21.1		73	30-150		
Batch 8091129 - SW846 3535										
<u>Blank (8091129-BLK1)</u>										
Prepared & Analyzed: 16-Sep-08										
gamma-BHC (Lindane)	BRL		µg/l	0.010						
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.010						
Heptachlor	BRL		µg/l	0.010						
Heptachlor [2C]	BRL		µg/l	0.010						
Heptachlor epoxide	BRL		µg/l	0.010						
Heptachlor Epoxide [2C]	BRL		µg/l	0.010						
Dieldrin	BRL		µg/l	0.010						
Dieldrin [2C]	BRL		µg/l	0.010						
4,4'-DDE (p,p')	BRL		µg/l	0.010						
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.010						
Endrin	BRL		µg/l	0.010						
Endrin [2C]	BRL		µg/l	0.010						
4,4'-DDD (p,p')	BRL		µg/l	0.010						
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.010						
4,4'-DDT (p,p')	BRL		µg/l	0.010						
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.010						
Methoxychlor	BRL		µg/l	0.010						
Methoxychlor [2C]	BRL		µg/l	0.010						
Toxaphene	BRL		µg/l	0.050						
Toxaphene [2C]	BRL		µg/l	0.050						
Chlordane	BRL		µg/l	0.050						
Chlordane [2C]	BRL		µg/l	0.050						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0264		µg/l		0.0200		132	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091129 - SW846 3535										
<u>Blank (8091129-BLK1)</u>										
Prepared & Analyzed: 16-Sep-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0100		µg/l		0.0200		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0134		µg/l		0.0200		67	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0110		µg/l		0.0200		55	30-150		
<u>LCS (8091129-BS1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
gamma-BHC (Lindane)	0.015		µg/l	0.010	0.0200		73	40-140		
gamma-BHC (Lindane) [2C]	0.013		µg/l	0.010	0.0200		64	40-140		
Heptachlor	0.016		µg/l	0.010	0.0200		78	40-140		
Heptachlor [2C]	0.014		µg/l	0.010	0.0200		70	40-140		
Heptachlor epoxide	0.015		µg/l	0.010	0.0200		76	40-140		
Heptachlor Epoxide [2C]	0.014		µg/l	0.010	0.0200		69	40-140		
Dieldrin	0.015		µg/l	0.010	0.0200		77	40-140		
Dieldrin [2C]	0.014		µg/l	0.010	0.0200		69	40-140		
4,4'-DDE (p,p')	0.016		µg/l	0.010	0.0200		80	40-140		
4,4'-DDE (p,p') [2C]	0.014		µg/l	0.010	0.0200		71	40-140		
Endrin	0.016		µg/l	0.010	0.0200		80	40-140		
Endrin [2C]	0.014		µg/l	0.010	0.0200		72	40-140		
4,4'-DDD (p,p')	0.016		µg/l	0.010	0.0200		78	40-140		
4,4'-DDD (p,p') [2C]	0.013		µg/l	0.010	0.0200		65	40-140		
4,4'-DDT (p,p')	0.017		µg/l	0.010	0.0200		83	40-140		
4,4'-DDT (p,p') [2C]	0.015		µg/l	0.010	0.0200		77	40-140		
Methoxychlor	0.017		µg/l	0.010	0.0200		87	40-140		
Methoxychlor [2C]	0.016		µg/l	0.010	0.0200		81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0179		µg/l		0.0200		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0117		µg/l		0.0200		59	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0152		µg/l		0.0200		76	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0144		µg/l		0.0200		72	30-150		
<u>LCS Dup (8091129-BSD1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
gamma-BHC (Lindane)	0.015		µg/l	0.010	0.0200		77	40-140	4	30
gamma-BHC (Lindane) [2C]	0.013		µg/l	0.010	0.0200		64	40-140	0.3	30
Heptachlor	0.016		µg/l	0.010	0.0200		79	40-140	1	30
Heptachlor [2C]	0.014		µg/l	0.010	0.0200		69	40-140	1	30
Heptachlor epoxide	0.015		µg/l	0.010	0.0200		75	40-140	1	30
Heptachlor Epoxide [2C]	0.014		µg/l	0.010	0.0200		68	40-140	0.5	30
Dieldrin	0.016		µg/l	0.010	0.0200		80	40-140	4	30
Dieldrin [2C]	0.013		µg/l	0.010	0.0200		67	40-140	2	30
4,4'-DDE (p,p')	0.017		µg/l	0.010	0.0200		83	40-140	3	30
4,4'-DDE (p,p') [2C]	0.014		µg/l	0.010	0.0200		70	40-140	2	30
Endrin	0.016		µg/l	0.010	0.0200		81	40-140	2	30
Endrin [2C]	0.014		µg/l	0.010	0.0200		70	40-140	2	30
4,4'-DDD (p,p')	0.016		µg/l	0.010	0.0200		80	40-140	3	30
4,4'-DDD (p,p') [2C]	0.013		µg/l	0.010	0.0200		65	40-140	0.9	30
4,4'-DDT (p,p')	0.016		µg/l	0.010	0.0200		81	40-140	2	30
4,4'-DDT (p,p') [2C]	0.014		µg/l	0.010	0.0200		71	40-140	7	30
Methoxychlor	0.018		µg/l	0.010	0.0200		91	40-140	4	30
Methoxychlor [2C]	0.015		µg/l	0.010	0.0200		75	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0181		µg/l		0.0200		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0117		µg/l		0.0200		58	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0156		µg/l		0.0200		78	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091129 - SW846 3535										
<u>LCS Dup (8091129-BSD1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0140		µg/l		0.0200		70	30-150		
<u>Duplicate (8091129-DUP1)</u> Source: SA84464-02										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
gamma-BHC (Lindane)	BRL		µg/l	0.080		BRL				30
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.080		BRL				30
Heptachlor	BRL		µg/l	0.080		BRL				30
Heptachlor [2C]	BRL		µg/l	0.080		BRL				30
Heptachlor epoxide	BRL		µg/l	0.080		BRL				30
Heptachlor Epoxide [2C]	BRL		µg/l	0.080		BRL				30
Dieldrin	BRL		µg/l	0.080		BRL				30
Dieldrin [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDE (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.080		BRL				30
Endrin	BRL		µg/l	0.080		BRL				30
Endrin [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDD (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDT (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.080		BRL				30
Methoxychlor	BRL		µg/l	0.080		BRL				30
Methoxychlor [2C]	BRL		µg/l	0.080		BRL				30
Toxaphene	BRL		µg/l	0.400		BRL				30
Toxaphene [2C]	BRL		µg/l	0.400		BRL				30
Chlordane	BRL		µg/l	0.400		BRL				30
Chlordane [2C]	BRL		µg/l	0.400		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0892		µg/l		0.160		56	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0648		µg/l		0.160		41	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.118		µg/l		0.160		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0697		µg/l		0.160		44	30-150		
Batch 8091130 - SW846 3535										
<u>Blank (8091130-BLK1)</u>										
Prepared & Analyzed: 16-Sep-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.175		µg/l		0.200		88	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.171		µg/l		0.200		86	30-150		
<u>LCS (8091130-BS1)</u>										
Prepared & Analyzed: 16-Sep-08										
2,4,5-TP (Silvex)	0.409		µg/l	0.100	0.500		82	40-140		
2,4,5-TP (Silvex) [2C]	0.385		µg/l	0.100	0.500		77	40-140		
2,4-D	0.409		µg/l	0.100	0.500		82	40-140		
2,4-D [2C]	0.390		µg/l	0.100	0.500		78	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.169		µg/l		0.200		84	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.176		µg/l		0.200		88	30-150		
<u>LCS Dup (8091130-BSD1)</u>										
Prepared & Analyzed: 16-Sep-08										
2,4,5-TP (Silvex)	0.411		µg/l	0.100	0.500		82	40-140	0.5	25

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091130 - SW846 3535										
<u>LCS Dup (8091130-BSD1)</u>										
Prepared & Analyzed: 16-Sep-08										
2,4,5-TP (Silvex) [2C]	0.377		µg/l	0.100	0.500		75	40-140	2	25
2,4-D	0.399		µg/l	0.100	0.500		80	40-140	2	25
2,4-D [2C]	0.382		µg/l	0.100	0.500		76	40-140	2	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.175		µg/l		0.200		88	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [i	0.169		µg/l		0.200		84	30-150		
<u>Duplicate (8091130-DUP1)</u> Source: SA84464-02										
Prepared & Analyzed: 16-Sep-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100		BRL				30
2,4-D	BRL		µg/l	0.100		BRL				30
2,4-D [2C]	BRL		µg/l	0.100		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.172		µg/l		0.211		82	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [i	0.124		µg/l		0.211		59	30-150		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090896 - SW846 3510C										
<u>Blank (8090896-BLK1)</u>										
Prepared: 12-Sep-08 Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/l	0.2						
Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Naphthalene	BRL		µg/l	2.50						
2-Methylnaphthalene	BRL		µg/l	2.50						
Acenaphthylene	BRL		µg/l	2.50						
Acenaphthene	BRL		µg/l	2.50						
Fluorene	BRL		µg/l	2.50						
Phenanthrene	BRL		µg/l	2.50						
Anthracene	BRL		µg/l	2.50						
Fluoranthene	BRL		µg/l	2.50						
Pyrene	BRL		µg/l	2.50						
Benzo (a) anthracene	BRL		µg/l	2.50						
Chrysene	BRL		µg/l	2.50						
Benzo (b) fluoranthene	BRL		µg/l	2.50						
Benzo (k) fluoranthene	BRL		µg/l	2.50						
Benzo (a) pyrene	BRL		µg/l	2.50						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	2.50						
Dibenzo (a,h) anthracene	BRL		µg/l	2.50						
Benzo (g,h,i) perylene	BRL		µg/l	2.50						
Naphthalene (aliphatic fraction)	0.00		µg/l							
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l							
Surrogate: 1-Chlorooctadecane	33.7		µg/l		50.0		67	40-140		
Surrogate: Ortho-Terphenyl	29.0		µg/l		50.0		58	40-140		
Surrogate: 2-Fluorobiphenyl	24.8		µg/l		40.0		62	40-140		
<u>LCS (8090896-BS1)</u>										
Prepared: 12-Sep-08 Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	0.276		mg/l	0.2	0.600		46	40-140		
C19-C36 Aliphatic Hydrocarbons	0.501		mg/l	0.2	0.800		63	40-140		
C11-C22 Aromatic Hydrocarbons	0.940		mg/l	0.2	1.70		55	40-140		
Naphthalene	41.2		µg/l	2.50	100		41	40-140		
2-Methylnaphthalene	48.4		µg/l	2.50	100		48	40-140		
Acenaphthylene	56.2		µg/l	2.50	100		56	40-140		
Acenaphthene	60.7		µg/l	2.50	100		61	40-140		
Fluorene	62.9		µg/l	2.50	100		63	40-140		
Phenanthrene	68.6		µg/l	2.50	100		69	40-140		
Anthracene	54.4		µg/l	2.50	100		54	40-140		
Fluoranthene	62.6		µg/l	2.50	100		63	40-140		
Pyrene	60.2		µg/l	2.50	100		60	40-140		
Benzo (a) anthracene	62.7		µg/l	2.50	100		63	40-140		
Chrysene	55.4		µg/l	2.50	100		55	40-140		
Benzo (b) fluoranthene	48.1		µg/l	2.50	100		48	40-140		
Benzo (k) fluoranthene	59.4		µg/l	2.50	100		59	40-140		
Benzo (a) pyrene	51.2		µg/l	2.50	100		51	40-140		
Indeno (1,2,3-cd) pyrene	59.4		µg/l	2.50	100		59	40-140		
Dibenzo (a,h) anthracene	56.2		µg/l	2.50	100		56	40-140		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090896 - SW846 3510C										
<u>LCS (8090896-BS1)</u>										
Prepared: 12-Sep-08 Analyzed: 15-Sep-08										
Benzo (g,h,i) perylene	57.9		µg/l	2.50	100		58	40-140		
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	29.8		µg/l		50.0		60	40-140		
Surrogate: Ortho-Terphenyl	31.0		µg/l		50.0		62	40-140		
Surrogate: 2-Bromonaphthalene	23.4		µg/l		40.0		59	40-140		
Surrogate: 2-Fluorobiphenyl	28.8		µg/l		40.0		72	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (8090896-BS2)</u>										
Prepared: 12-Sep-08 Analyzed: 16-Sep-08										
C9-C18 Aliphatic Hydrocarbons	0.363		mg/l	0.2	0.600		60	40-140		
C19-C36 Aliphatic Hydrocarbons	0.606		mg/l	0.2	0.800		76	40-140		
C11-C22 Aromatic Hydrocarbons	1.17		mg/l	0.2	1.70		69	40-140		
Naphthalene	59.1		µg/l	2.50	100		59	40-140		
2-Methylnaphthalene	61.5		µg/l	2.50	100		62	40-140		
Acenaphthylene	67.6		µg/l	2.50	100		68	40-140		
Acenaphthene	71.3		µg/l	2.50	100		71	40-140		
Fluorene	72.5		µg/l	2.50	100		73	40-140		
Phenanthrene	76.6		µg/l	2.50	100		77	40-140		
Anthracene	68.7		µg/l	2.50	100		69	40-140		
Fluoranthene	74.1		µg/l	2.50	100		74	40-140		
Pyrene	73.3		µg/l	2.50	100		73	40-140		
Benzo (a) anthracene	75.9		µg/l	2.50	100		76	40-140		
Chrysene	71.0		µg/l	2.50	100		71	40-140		
Benzo (b) fluoranthene	70.3		µg/l	2.50	100		70	40-140		
Benzo (k) fluoranthene	77.7		µg/l	2.50	100		78	40-140		
Benzo (a) pyrene	72.1		µg/l	2.50	100		72	40-140		
Indeno (1,2,3-cd) pyrene	88.7		µg/l	2.50	100		89	40-140		
Dibenzo (a,h) anthracene	88.3		µg/l	2.50	100		88	40-140		
Benzo (g,h,i) perylene	77.6		µg/l	2.50	100		78	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
Surrogate: 1-Chlorooctadecane	38.5		µg/l		50.0		77	40-140		
Surrogate: Ortho-Terphenyl	38.2		µg/l		50.0		76	40-140		
Surrogate: 2-Bromonaphthalene	37.6		µg/l		40.0		94	40-140		
Surrogate: 2-Fluorobiphenyl	31.6		µg/l		40.0		79	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8090896-BSD1)</u>										
Prepared: 12-Sep-08 Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	0.309		mg/l	0.2	0.600		52	40-140	11	25
C19-C36 Aliphatic Hydrocarbons	0.513		mg/l	0.2	0.800		64	40-140	2	25
C11-C22 Aromatic Hydrocarbons	0.950		mg/l	0.2	1.70		56	40-140	1	25
Naphthalene	42.4		µg/l	2.50	100		42	40-140	3	20
2-Methylnaphthalene	43.1		µg/l	2.50	100		43	40-140	12	20
Acenaphthylene	46.8		µg/l	2.50	100		47	40-140	18	20
Acenaphthene	50.2		µg/l	2.50	100		50	40-140	19	20
Fluorene	58.5		µg/l	2.50	100		59	40-140	7	20
Phenanthrene	69.2		µg/l	2.50	100		69	40-140	0.9	20

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090896 - SW846 3510C										
<u>LCS Dup (8090896-BSD1)</u>										
Prepared: 12-Sep-08 Analyzed: 15-Sep-08										
Anthracene	54.2		µg/l	2.50	100		54	40-140	0.4	20
Fluoranthene	62.2		µg/l	2.50	100		62	40-140	0.5	20
Pyrene	61.3		µg/l	2.50	100		61	40-140	2	20
Benzo (a) anthracene	56.8		µg/l	2.50	100		57	40-140	10	20
Chrysene	55.0		µg/l	2.50	100		55	40-140	0.8	20
Benzo (b) fluoranthene	55.6		µg/l	2.50	100		56	40-140	15	20
Benzo (k) fluoranthene	53.0		µg/l	2.50	100		53	40-140	11	20
Benzo (a) pyrene	54.0		µg/l	2.50	100		54	40-140	5	20
Indeno (1,2,3-cd) pyrene	60.3		µg/l	2.50	100		60	40-140	2	20
Dibenzo (a,h) anthracene	58.5		µg/l	2.50	100		59	40-140	4	20
Benzo (g,h,i) perylene	57.4		µg/l	2.50	100		57	40-140	0.8	20
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	28.1		µg/l		50.0		56	40-140		
Surrogate: Ortho-Terphenyl	31.1		µg/l		50.0		62	40-140		
Surrogate: 2-Fluorobiphenyl	29.6		µg/l		40.0		74	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8090901 - SW846 3510C										
<u>Blank (8090901-BLK1)</u>										
Prepared: 12-Sep-08 Analyzed: 16-Sep-08										
Gasoline	BRL		mg/l	0.1						
Fuel Oil #2	BRL		mg/l	0.1						
Fuel Oil #4	BRL		mg/l	0.1						
Fuel Oil #6	BRL		mg/l	0.1						
Motor Oil	BRL		mg/l	0.1						
Ligroin	BRL		mg/l	0.1						
Aviation Fuel	BRL		mg/l	0.1						
Hydraulic Oil	BRL		mg/l	0.1						
Dielectric Fluid	BRL		mg/l	0.1						
Unidentified	BRL		mg/l	0.1						
Other Oil	BRL		mg/l	0.1						
Total Petroleum Hydrocarbons	BRL		mg/l	0.1						
Surrogate: 1-Chlorooctadecane	0.0345		mg/l		0.0500		69	40-140		
<u>LCS (8090901-BS1)</u>										
Prepared: 12-Sep-08 Analyzed: 16-Sep-08										
Fuel Oil #2	11.5		mg/l	0.1	10.0		115	40-140		
Surrogate: 1-Chlorooctadecane	0.0382		mg/l		0.0500		76	40-140		
Batch 8091021 - SW846 3545A										
<u>Blank (8091021-BLK1)</u>										
Prepared & Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/kg wet	13.4						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Naphthalene	BRL		µg/kg wet	66.5						

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091021 - SW846 3545A										
<u>Blank (8091021-BLK1)</u>										
Prepared & Analyzed: 15-Sep-08										
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Acenaphthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Surrogate: 1-Chlorooctadecane	2700		µg/kg wet		3330		81	40-140		
Surrogate: Ortho-Terphenyl	2370		µg/kg wet		3330		71	40-140		
Surrogate: 2-Fluorobiphenyl	1890		µg/kg wet		2670		71	40-140		
<u>LCS (8091021-BS1)</u>										
Prepared & Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	18.3		mg/kg wet	13.4	40.0		46	40-140		
C19-C36 Aliphatic Hydrocarbons	36.3		mg/kg wet	13.4	53.3		68	40-140		
C11-C22 Aromatic Hydrocarbons	83.3		mg/kg wet	13.4	113		74	40-140		
Naphthalene	3560		µg/kg wet	66.5	6670		53	40-140		
2-Methylnaphthalene	4000		µg/kg wet	66.5	6670		60	40-140		
Acenaphthylene	4230		µg/kg wet	66.5	6670		64	40-140		
Acenaphthene	4350		µg/kg wet	66.5	6670		65	40-140		
Fluorene	4470		µg/kg wet	66.5	6670		67	40-140		
Phenanthrene	4930		µg/kg wet	66.5	6670		74	40-140		
Anthracene	5080		µg/kg wet	66.5	6670		76	40-140		
Fluoranthene	5130		µg/kg wet	66.5	6670		77	40-140		
Pyrene	5090		µg/kg wet	66.5	6670		76	40-140		
Benzo (a) anthracene	5720		µg/kg wet	66.5	6670		86	40-140		
Chrysene	5180		µg/kg wet	66.5	6670		78	40-140		
Benzo (b) fluoranthene	6030		µg/kg wet	66.5	6670		90	40-140		
Benzo (k) fluoranthene	5260		µg/kg wet	66.5	6670		79	40-140		
Benzo (a) pyrene	5810		µg/kg wet	66.5	6670		87	40-140		
Indeno (1,2,3-cd) pyrene	6570		µg/kg wet	66.5	6670		99	40-140		
Dibenzo (a,h) anthracene	6740		µg/kg wet	66.5	6670		101	40-140		
Benzo (g,h,i) perylene	6670		µg/kg wet	66.5	6670		100	40-140		
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	2150		µg/kg wet		3330		64	40-140		
Surrogate: Ortho-Terphenyl	2120		µg/kg wet		3330		64	40-140		
Surrogate: 2-Fluorobiphenyl	1860		µg/kg wet		2670		70	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8091021-BSD1)</u>										
Prepared & Analyzed: 15-Sep-08										

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091021 - SW846 3545A										
<u>LCS Dup (8091021-BSD1)</u>										
Prepared & Analyzed: 15-Sep-08										
C9-C18 Aliphatic Hydrocarbons	19.9		mg/kg wet	13.4	40.0		50	40-140	8	25
C19-C36 Aliphatic Hydrocarbons	44.8		mg/kg wet	13.4	53.3		84	40-140	21	25
C11-C22 Aromatic Hydrocarbons	87.3		mg/kg wet	13.4	113		77	40-140	5	25
Naphthalene	3760		µg/kg wet	66.5	6670		56	40-140	5	30
2-Methylnaphthalene	4140		µg/kg wet	66.5	6670		62	40-140	3	30
Acenaphthylene	4380		µg/kg wet	66.5	6670		66	40-140	3	30
Acenaphthene	4500		µg/kg wet	66.5	6670		68	40-140	3	30
Fluorene	4790		µg/kg wet	66.5	6670		72	40-140	7	30
Phenanthrene	5240		µg/kg wet	66.5	6670		79	40-140	6	30
Anthracene	5290		µg/kg wet	66.5	6670		79	40-140	4	30
Fluoranthene	5410		µg/kg wet	66.5	6670		81	40-140	5	30
Pyrene	5410		µg/kg wet	66.5	6670		81	40-140	6	30
Benzo (a) anthracene	6080		µg/kg wet	66.5	6670		91	40-140	6	30
Chrysene	5470		µg/kg wet	66.5	6670		82	40-140	5	30
Benzo (b) fluoranthene	6480		µg/kg wet	66.5	6670		97	40-140	7	30
Benzo (k) fluoranthene	5630		µg/kg wet	66.5	6670		84	40-140	7	30
Benzo (a) pyrene	6340		µg/kg wet	66.5	6670		95	40-140	9	30
Indeno (1,2,3-cd) pyrene	7150		µg/kg wet	66.5	6670		107	40-140	9	30
Dibenzo (a,h) anthracene	7190		µg/kg wet	66.5	6670		108	40-140	6	30
Benzo (g,h,i) perylene	7500		µg/kg wet	66.5	6670		112	40-140	12	30
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	2580		µg/kg wet		3330		77	40-140		
Surrogate: Ortho-Terphenyl	2350		µg/kg wet		3330		71	40-140		
Surrogate: 2-Fluorobiphenyl	2060		µg/kg wet		2670		77	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8091022 - SW846 3550B										
<u>Blank (8091022-BLK1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Ligroin	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Hydraulic Oil	BRL		mg/kg wet	13.3						
Dielectric Fluid	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	2.77		mg/kg wet		3.33		83	40-140		
<u>LCS (8091022-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Fuel Oil #2	948		mg/kg wet	13.3	833		114	40-140		
Surrogate: 1-Chlorooctadecane	3.56		mg/kg wet		3.33		107	40-140		
<u>Duplicate (8091022-DUP1)</u> Source: SA84471-06										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8091022 - SW846 3550B										
<u>Duplicate (8091022-DUP1)</u> Source: SA84471-06										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Gasoline	BRL		mg/kg dry	32.0		BRL				50
Fuel Oil #2	BRL		mg/kg dry	32.0		BRL				50
Fuel Oil #4	BRL		mg/kg dry	32.0		BRL				50
Fuel Oil #6	BRL		mg/kg dry	32.0		BRL				50
Motor Oil	BRL		mg/kg dry	32.0		BRL				50
Ligroin	BRL		mg/kg dry	32.0		BRL				50
Aviation Fuel	BRL		mg/kg dry	32.0		BRL				50
Hydraulic Oil	BRL		mg/kg dry	32.0		BRL				50
Dielectric Fluid	BRL		mg/kg dry	32.0		BRL				50
Unidentified	34.0		mg/kg dry	32.0		35.9			5	50
Other Oil	Calculated as		mg/kg dry	32.0		BRL				50
Total Petroleum Hydrocarbons	34.0		mg/kg dry	32.0		35.9			5	50
Surrogate: 1-Chlorooctadecane	3.49		mg/kg dry		4.01		87	40-140		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8091148 - SW846 3050B									
<u>Blank (8091148-BLK1)</u>									
Prepared: 17-Sep-08 Analyzed: 18-Sep-08									
Lead	BRL		mg/kg wet	1.50					
Selenium	BRL		mg/kg wet	1.50					
Iron	BRL		mg/kg wet	4.00					
Chromium	BRL		mg/kg wet	0.999					
Arsenic	BRL		mg/kg wet	1.50					
Silver	BRL		mg/kg wet	1.50					
Cadmium	BRL		mg/kg wet	0.499					
Barium	BRL		mg/kg wet	0.999					
<u>Duplicate (8091148-DUP1)</u> Source: SA84228-01									
Prepared: 17-Sep-08 Analyzed: 18-Sep-08									
Lead	9.14		mg/kg dry	1.69		8.78		4	20
Iron	18400	QR6	mg/kg dry	4.50		13700		29	20
Selenium	BRL		mg/kg dry	1.69		BRL			20
Arsenic	BRL		mg/kg dry	1.69		0.761			20
Chromium	30.5	QR6	mg/kg dry	1.12		21.2		36	20
Silver	BRL		mg/kg dry	1.69		BRL			20
Cadmium	0.720	QR6	mg/kg dry	0.562		0.528		31	20
Barium	30.5		mg/kg dry	1.12		28.8		6	20
<u>Matrix Spike (8091148-MS1)</u> Source: SA84369-03									
Prepared: 17-Sep-08 Analyzed: 18-Sep-08									
Lead	123		mg/kg dry	1.57	130	5.95	90	75-125	
Selenium	108		mg/kg dry	1.57	130	BRL	83	75-125	
Iron	12000	QM2	mg/kg dry	4.17	130	11200	641	75-125	
Chromium	143		mg/kg dry	1.04	130	13.3	100	75-125	
Arsenic	120		mg/kg dry	1.57	130	BRL	92	75-125	
Silver	121		mg/kg dry	1.57	130	BRL	93	75-125	
Cadmium	117		mg/kg dry	0.522	130	0.477	89	75-125	
Barium	156		mg/kg dry	1.04	130	30.5	96	75-125	
<u>Matrix Spike Dup (8091148-MSD1)</u> Source: SA84369-03									
Prepared: 17-Sep-08 Analyzed: 18-Sep-08									
Lead	114		mg/kg dry	1.43	120	5.95	90	75-125	8
Iron	12800	QM2	mg/kg dry	3.83	120	11200	1410	75-125	7
Selenium	96.1		mg/kg dry	1.43	120	BRL	80	75-125	12
Silver	111		mg/kg dry	1.43	120	BRL	93	75-125	9
Arsenic	107		mg/kg dry	1.43	120	BRL	90	75-125	11
Chromium	133		mg/kg dry	0.957	120	13.3	100	75-125	8
Cadmium	107		mg/kg dry	0.478	120	0.477	89	75-125	9
Barium	157		mg/kg dry	0.957	120	30.5	105	75-125	0.2
<u>Post Spike (8091148-PS1)</u> Source: SA84369-03									
Prepared: 17-Sep-08 Analyzed: 18-Sep-08									
Lead	127		mg/kg dry	1.62	135	5.95	90	80-120	
Selenium	116		mg/kg dry	1.62	135	BRL	85	80-120	
Iron	11400	QM2	mg/kg dry	4.33	135	11200	196	80-120	
Silver	128		mg/kg dry	1.62	135	BRL	94	80-120	
Arsenic	126		mg/kg dry	1.62	135	BRL	93	80-120	
Chromium	144		mg/kg dry	1.08	135	13.3	97	80-120	
Cadmium	122		mg/kg dry	0.541	135	0.477	90	80-120	
Barium	157		mg/kg dry	1.08	135	30.5	93	80-120	

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* Reportable Detection Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091148 - SW846 3050B										
<u>Reference (8091148-SRM1)</u>										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Lead	79.0		mg/kg wet	1.50	86.9		91	81.5-118.5		
Selenium	42.2		mg/kg wet	1.50	48.7		87	76.8-123.3		
Iron	8060		mg/kg wet	4.00	9570		84	50.6-149.7		
Arsenic	62.0		mg/kg wet	1.50	68.8		90	80.5-120.3		
Silver	39.4		mg/kg wet	1.50	42.0		94	66.3-133		
Chromium	109		mg/kg wet	1.00	113		96	81.7-117.9		
Cadmium	46.0		mg/kg wet	0.500	53.3		86	82.8-116.8		
Barium	112		mg/kg wet	1.00	117		95	81.4-118.6		
<u>Reference (8091148-SRM2)</u>										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Lead	78.8		mg/kg wet	1.50	84.1		94	81.5-118.5		
Iron	8020		mg/kg wet	4.00	9260		87	50.6-149.7		
Selenium	42.0		mg/kg wet	1.50	47.1		89	76.8-123.3		
Silver	39.8		mg/kg wet	1.50	40.7		98	66.3-133		
Arsenic	62.4		mg/kg wet	1.50	66.6		94	80.5-120.3		
Chromium	110		mg/kg wet	1.00	110		101	81.7-117.9		
Cadmium	46.6		mg/kg wet	0.500	51.6		90	82.8-116.8		
Barium	103		mg/kg wet	1.00	113		91	81.4-118.6		
Batch 8091149 - EPA200/SW7000 Series										
<u>Blank (8091149-BLK1)</u>										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	BRL		mg/kg wet	0.0295						
<u>Duplicate (8091149-DUP1)</u> Source: SA84228-01										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	0.948		mg/kg dry	0.0347		0.802			17	20
<u>Matrix Spike (8091149-MS1)</u> Source: SA84369-03										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	0.464		mg/kg dry	0.0292	0.405	0.0095	112	75-125		
<u>Matrix Spike Dup (8091149-MSD1)</u> Source: SA84369-03										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	0.451		mg/kg dry	0.0282	0.391	0.0095	113	75-125	3	20
<u>Post Spike (8091149-PS1)</u> Source: SA84369-03										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	0.459		mg/kg dry	0.0288	0.400	0.0095	112	80-120		
<u>Reference (8091149-SRM1)</u>										
Prepared: 17-Sep-08 Analyzed: 18-Sep-08										
Mercury	1.49		mg/kg wet	0.0300	1.59		94	71.2-128.7		

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* Reportable Detection Limit

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8091083 - SW846 3005A									
<u>Blank (8091083-BLK1)</u>									
Prepared: 15-Sep-08 Analyzed: 16-Sep-08									
Selenium	BRL		mg/l	0.0150					
Iron	BRL		mg/l	0.0150					
Lead	BRL		mg/l	0.0075					
Cadmium	BRL		mg/l	0.0025					
Barium	BRL		mg/l	0.0050					
Arsenic	BRL		mg/l	0.0040					
Silver	BRL		mg/l	0.0050					
Chromium	BRL		mg/l	0.0050					
<u>LCS (8091083-BS1)</u>									
Prepared: 15-Sep-08 Analyzed: 16-Sep-08									
Selenium	1.19		mg/l	0.0150	1.25		95 85-115		
Iron	1.23		mg/l	0.0150	1.25		98 85-115		
Lead	1.20		mg/l	0.0075	1.25		96 85-115		
Arsenic	1.17		mg/l	0.0040	1.25		94 85-115		
Silver	1.18		mg/l	0.0050	1.25		95 85-115		
Cadmium	1.21		mg/l	0.0025	1.25		97 85-115		
Barium	1.21		mg/l	0.0050	1.25		97 85-115		
Chromium	1.23		mg/l	0.0050	1.25		99 85-115		
<u>LCS Dup (8091083-BSD1)</u>									
Prepared: 15-Sep-08 Analyzed: 16-Sep-08									
Selenium	1.21		mg/l	0.0150	1.25		97 85-115	2	20
Lead	1.22		mg/l	0.0075	1.25		97 85-115	1	20
Iron	1.25		mg/l	0.0150	1.25		100 85-115	2	20
Arsenic	1.19		mg/l	0.0040	1.25		95 85-115	2	20
Barium	1.25		mg/l	0.0050	1.25		100 85-115	3	20
Cadmium	1.23		mg/l	0.0025	1.25		98 85-115	1	20
Silver	1.20		mg/l	0.0050	1.25		96 85-115	1	20
Chromium	1.26		mg/l	0.0050	1.25		101 85-115	2	20
<u>Duplicate (8091083-DUP1)</u> Source: SA84082-12									
Prepared: 15-Sep-08 Analyzed: 16-Sep-08									
Selenium	BRL		mg/l	0.0150		BRL			20
Iron	0.0245		mg/l	0.0150		0.0281		14	20
Lead	BRL		mg/l	0.0075		BRL			20
Cadmium	BRL		mg/l	0.0025		BRL			20
Barium	0.146		mg/l	0.0050		0.151		3	20
Silver	BRL		mg/l	0.0050		BRL			20
Arsenic	BRL		mg/l	0.0040		BRL			20
Chromium	BRL		mg/l	0.0050		BRL			20
<u>Matrix Spike (8091083-MS1)</u> Source: SA84141-13									
Prepared: 15-Sep-08 Analyzed: 16-Sep-08									
Selenium	1.27		mg/l	0.0150	1.25	BRL	102 75-125		
Lead	1.15		mg/l	0.0075	1.25	BRL	92 75-125		
Iron	1.38		mg/l	0.0150	1.25	0.112	102 75-125		
Silver	1.29		mg/l	0.0050	1.25	BRL	103 75-125		
Arsenic	1.27		mg/l	0.0040	1.25	BRL	102 75-125		
Cadmium	1.21		mg/l	0.0025	1.25	BRL	97 75-125		
Barium	1.29		mg/l	0.0050	1.25	0.0586	98 75-125		
Chromium	1.26		mg/l	0.0050	1.25	BRL	101 75-125		

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* Reportable Detection Limit

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091083 - SW846 3005A										
<u>Matrix Spike Dup (8091083-MSD1)</u> Source: SA84141-13										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Selenium	1.31		mg/l	0.0150	1.25	BRL	105	75-125	3	20
Lead	1.17		mg/l	0.0075	1.25	BRL	94	75-125	2	20
Iron	1.45		mg/l	0.0150	1.25	0.112	107	75-125	5	20
Barium	1.32		mg/l	0.0050	1.25	0.0586	101	75-125	3	20
Arsenic	1.30		mg/l	0.0040	1.25	BRL	104	75-125	2	20
Cadmium	1.22		mg/l	0.0025	1.25	BRL	98	75-125	1	20
Silver	1.31		mg/l	0.0050	1.25	BRL	105	75-125	1	20
Chromium	1.28		mg/l	0.0050	1.25	BRL	102	75-125	1	20
<u>Post Spike (8091083-PS1)</u> Source: SA84141-13										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Selenium	1.27		mg/l	0.0150	1.25	BRL	102	80-120		
Iron	1.58		mg/l	0.0150	1.25	0.112	117	80-120		
Lead	1.14		mg/l	0.0075	1.25	BRL	91	80-120		
Arsenic	1.26		mg/l	0.0040	1.25	BRL	101	80-120		
Silver	1.28		mg/l	0.0050	1.25	BRL	102	80-120		
Cadmium	1.19		mg/l	0.0025	1.25	BRL	95	80-120		
Barium	1.27		mg/l	0.0050	1.25	0.0586	97	80-120		
Chromium	1.26		mg/l	0.0050	1.25	BRL	101	80-120		

Soluble Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091084 - EPA200/SW7000 Series										
<u>Blank (8091084-BLK1)</u>										
Prepared: 15-Sep-08 Analyzed: 17-Sep-08										
Mercury	BRL		mg/l	0.00020						
<u>LCS (8091084-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00446		mg/l	0.00020	0.00500		89	85-115		
<u>Duplicate (8091084-DUP1)</u> Source: SA84082-11										
Prepared: 15-Sep-08 Analyzed: 17-Sep-08										
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (8091084-MS1)</u> Source: SA84141-12										
Prepared: 15-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00463		mg/l	0.00020	0.00500	BRL	93	75-125		
<u>Matrix Spike Dup (8091084-MSD1)</u> Source: SA84141-12										
Prepared: 15-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00455		mg/l	0.00020	0.00500	BRL	91	75-125	2	20

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* Reportable Detection Limit

BRL = Below Reporting Limit

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8091132 - SW846 3010A									
<u>Blank (8091132-BLK1)</u>									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	BRL		mg/l	0.0300					
Lead	BRL		mg/l	0.0150					
Silver	BRL		mg/l	0.0100					
Arsenic	BRL		mg/l	0.0080					
Chromium	BRL		mg/l	0.0100					
Cadmium	BRL		mg/l	0.0050					
Barium	BRL		mg/l	0.0100					
<u>LCS (8091132-BS1)</u>									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	2.39		mg/l	0.0300	2.50		96	85.8-127	
Lead	2.37		mg/l	0.0150	2.50		95	78.1-115	
Silver	2.36		mg/l	0.0100	2.50		94	89.2-122	
Arsenic	2.45		mg/l	0.0080	2.50		98	86-119	
Chromium	2.33		mg/l	0.0100	2.50		93	87.7-114	
Cadmium	2.55		mg/l	0.0050	2.50		102	89.7-116	
Barium	2.45		mg/l	0.0100	2.50		98	85.5-117	
<u>LCS Dup (8091132-BSD1)</u>									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	2.45		mg/l	0.0300	2.50		98	85.8-127	3 20
Lead	2.42		mg/l	0.0150	2.50		97	78.1-115	2 20
Chromium	2.40		mg/l	0.0100	2.50		96	87.7-114	3 20
Arsenic	2.50		mg/l	0.0080	2.50		100	86-119	2 20
Silver	2.42		mg/l	0.0100	2.50		97	89.2-122	3 104
Cadmium	2.58		mg/l	0.0050	2.50		103	89.7-116	1 20
Barium	2.50		mg/l	0.0100	2.50		100	85.5-117	2 20
<u>Duplicate (8091132-DUP1)</u> Source: SA84464-02									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	0.0102	J,QR8	mg/l	0.0300		0.0135			28 20
Lead	BRL		mg/l	0.0150		BRL			20
Silver	BRL		mg/l	0.0100		BRL			20
Arsenic	0.0084		mg/l	0.0080		0.0071			17 20
Chromium	BRL		mg/l	0.0100		BRL			20
Cadmium	0.0006	J	mg/l	0.0050		0.0005			18 20
Barium	0.556		mg/l	0.0100		0.579			4 20
<u>Matrix Spike (8091132-MS1)</u> Source: SA84519-01									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	2.56		mg/l	0.0300	2.50	BRL	102	87.6-128	
Lead	2.65		mg/l	0.0150	2.50	0.182	99	67.2-124	
Chromium	2.36		mg/l	0.0100	2.50	BRL	95	81.8-116	
Arsenic	2.57		mg/l	0.0080	2.50	0.0073	103	89-117	
Silver	2.52		mg/l	0.0100	2.50	BRL	101	74.3-132	
Cadmium	2.63		mg/l	0.0050	2.50	0.0061	105	82.8-119	
Barium	3.10		mg/l	0.0100	2.50	0.617	99	86.2-115	
<u>Matrix Spike Dup (8091132-MSD1)</u> Source: SA84519-01									
Prepared: 16-Sep-08 Analyzed: 17-Sep-08									
Selenium	2.60		mg/l	0.0300	2.50	BRL	104	87.6-128	2 20
Lead	2.65		mg/l	0.0150	2.50	0.182	99	67.2-124	0.2 20

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* Reportable Detection Limit

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TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091132 - SW846 3010A										
<u>Matrix Spike Dup (8091132-MSD1)</u> Source: SA84519-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Arsenic	2.58		mg/l	0.0080	2.50	0.0073	103	89-117	0.5	20
Silver	2.54		mg/l	0.0100	2.50	BRL	102	74.3-132	0.7	20
Chromium	2.35		mg/l	0.0100	2.50	BRL	94	81.8-116	0.7	20
Cadmium	2.63		mg/l	0.0050	2.50	0.0061	105	82.8-119	0	20
Barium	3.07		mg/l	0.0100	2.50	0.617	98	86.2-115	0.9	20
Batch 8091133 - EPA200/SW7000 Series										
<u>Blank (8091133-BLK1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	BRL		mg/l	0.00020						
<u>LCS (8091133-BS1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00456		mg/l	0.00020	0.00500		91	57-119		
<u>Duplicate (8091133-DUP1)</u> Source: SA84464-02										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (8091133-MS1)</u> Source: SA84519-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00472		mg/l	0.00020	0.00500	BRL	94	54.7-121		
<u>Matrix Spike Dup (8091133-MSD1)</u> Source: SA84519-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	0.00531		mg/l	0.00020	0.00500	BRL	106	54.7-121	12	20
<u>Post Spike (8091133-PS1)</u> Source: SA84519-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Mercury	4.19		mg/l		5.00	0.0120	84	54.5-122		
Batch 8091459 - EPA200/SW7000 Series										
<u>Blank (8091459-BLK1)</u>										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	BRL		mg/l	0.00020						
<u>LCS (8091459-BS1)</u>										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	0.00452		mg/l	0.00020	0.00500		90	57-119		
<u>Duplicate (8091459-DUP1)</u> Source: SA84228-01										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (8091459-MS1)</u> Source: SA84228-01										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	0.00436		mg/l	0.00020	0.00500	BRL	87	54.7-121		
<u>Matrix Spike Dup (8091459-MSD1)</u> Source: SA84228-01										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	0.00446		mg/l	0.00020	0.00500	BRL	89	54.7-121	2	20
<u>Post Spike (8091459-PS1)</u> Source: SA84228-01										
Prepared: 19-Sep-08 Analyzed: 22-Sep-08										
Mercury	0.00456		mg/l	0.00020	0.00500	BRL	91	54.5-122		

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* Reportable Detection Limit

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090677 - General Preparation										
<u>Blank (8090677-BLK1)</u>										
Prepared & Analyzed: 09-Sep-08										
Reactivity	Negative		mg/l							
Reactive Cyanide	BRL		mg/l	25.0						
Reactive Sulfide	BRL		mg/l	50.0						
<u>Duplicate (8090677-DUP1)</u> Source: SA84214-01										
Prepared & Analyzed: 09-Sep-08										
Reactivity	Negative		mg/l			0.00				200
Reactive Cyanide	19.9	J	mg/l	25.0		17.0			16	20
Reactive Sulfide	16.0	J,QR3	mg/l	50.0		24.0			40	20
<u>Reference (8090677-SRM1)</u>										
Prepared & Analyzed: 09-Sep-08										
Reactive Cyanide	6.45		mg/l	25.0	100		6	0-200		
<u>Reference (8090677-SRM2)</u>										
Prepared & Analyzed: 09-Sep-08										
Reactive Sulfide	96.2		mg/l	50.0	6700		1	0-200		
Batch 8090681 - General Preparation										
<u>Duplicate (8090681-DUP1)</u> Source: SA84269-12										
Prepared & Analyzed: 09-Sep-08										
pH	7.59		pH Units			7.59			0	5
<u>Reference (8090681-SRM4)</u>										
Prepared & Analyzed: 09-Sep-08										
pH	7.03		pH Units		7.00		100	97.5-102.5		
<u>Reference (8090681-SRM5)</u>										
Prepared & Analyzed: 09-Sep-08										
pH	7.01		pH Units		7.00		100	97.5-102.5		
Batch 8090865 - General Preparation										
<u>LCS (8090865-BS1)</u>										
Prepared & Analyzed: 11-Sep-08										
Specific Conductance (EC)	149		uS/cm		147		102	95-105		
<u>Duplicate (8090865-DUP1)</u> Source: SA83754-01										
Prepared & Analyzed: 11-Sep-08										
Specific Conductance (EC)	145		uS/cm			146			0.8	5
<u>Reference (8090865-SRM1)</u>										
Prepared & Analyzed: 11-Sep-08										
Specific Conductance (EC)	204		uS/cm		200		102	80-120		
Batch 8091065 - General Preparation										
<u>Duplicate (8091065-DUP1)</u> Source: SA84599-01										
Prepared & Analyzed: 17-Sep-08										
Flashpoint	> 150		°F			0				20
<u>Reference (8091065-SRM1)</u>										
Prepared & Analyzed: 17-Sep-08										
Flashpoint	79		°F		81.0		98	95-105		
Batch 8091086 - General Preparation										
<u>Duplicate (8091086-DUP1)</u> Source: SA84200-01										

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091086 - General Preparation										
Prepared & Analyzed: 15-Sep-08										
% Solids	96.0		%			95.9			0.1	20
Batch 8091115 - General Preparation										
<u>Blank (8091115-BLK1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	BRL		mg/kg wet	1.00						
<u>Blank (8091115-BLK2)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	BRL		mg/kg wet	1.00						
<u>LCS (8091115-BS1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	28.9		mg/kg wet	1.00	30.0		96	90-110		
<u>LCS (8091115-BS2)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	29.2		mg/kg wet	1.00	30.0		97	90-110		
<u>Duplicate (8091115-DUP1)</u> Source: SA84411-03										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	BRL		mg/kg dry	0.986		BRL				35
<u>Matrix Spike (8091115-MS1)</u> Source: SA84411-03										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	35.4		mg/kg dry	1.08	32.4	BRL	109	90-110		
<u>Matrix Spike Dup (8091115-MSD1)</u> Source: SA84411-03										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	34.6		mg/kg dry	1.06	31.8	BRL	109	90-110	2	35
<u>Reference (8091115-SRM1)</u>										
Prepared: 15-Sep-08 Analyzed: 16-Sep-08										
Cyanide (total)	49.1		mg/kg wet	2.44	50.9		96	33.5-138.9		
Batch 8091197 - SM4500 CN C.										
<u>Blank (8091197-BLK1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	BRL		mg/l	0.0100						
<u>Blank (8091197-BLK2)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	BRL		mg/l	0.0100						
<u>LCS (8091197-BS1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.296		mg/l	0.0100	0.300		99	90-110		
<u>LCS (8091197-BS2)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.312		mg/l	0.0100	0.300		104	90-110		
<u>Duplicate (8091197-DUP1)</u> Source: SA84415-01 QR4										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.00627	J	mg/l	0.0100		0.00374			50	20
<u>Matrix Spike (8091197-MS1)</u> Source: SA84415-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.308		mg/l	0.0100	0.300	0.00374	101	90-110		

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8091197 - SM4500 CN C.										
<u>Matrix Spike (8091197-MS1)</u> Source: SA84415-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
<u>Matrix Spike Dup (8091197-MSD1)</u> Source: SA84415-01										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.298		mg/l	0.0100	0.300	0.00374	98	90-110	3	20
<u>Reference (8091197-SRM1)</u>										
Prepared: 16-Sep-08 Analyzed: 17-Sep-08										
Cyanide (total)	0.826		mg/l	0.0100	0.757		109	63-137.4		
Batch 8091359 - General Preparation										
<u>Duplicate (8091359-DUP1)</u> Source: SA83054-03										
Prepared & Analyzed: 18-Sep-08										
Resistivity	39800		ohm.cm			36100			10	200
<u>Duplicate (8091359-DUP2)</u> Source: SA84228-06										
Prepared & Analyzed: 18-Sep-08										
Resistivity	6400		ohm.cm			6380			0.3	200
<u>Reference (8091359-SRM1)</u>										
Prepared & Analyzed: 18-Sep-08										
Resistivity	6750		ohm.cm		6800		99	90-110		
<u>Reference (8091359-SRM2)</u>										
Prepared & Analyzed: 18-Sep-08										
Resistivity	6650		ohm.cm		6800		98	90-110		

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8090653 - General Preparation										
<u>Duplicate (8090653-DUP1)</u> Source: SA84253-12										
Prepared & Analyzed: 09-Sep-08										
pH	9.39		pH Units			9.41			0.2	5
<u>Reference (8090653-SRM1)</u>										
Prepared & Analyzed: 09-Sep-08										
pH	7.02		pH Units		7.00		100	97.5-102.5		
<u>Reference (8090653-SRM2)</u>										
Prepared & Analyzed: 09-Sep-08										
pH	7.09		pH Units		7.00		101	97.5-102.5		
Batch 8090727 - General Preparation										
<u>Blank (8090727-BLK1)</u>										
Prepared & Analyzed: 10-Sep-08										
Reactivity	Negative		mg/kg wet							
Reactive Cyanide	BRL		mg/kg wet	25.0						
Reactive Sulfide	BRL		mg/kg wet	50.0						
<u>Duplicate (8090727-DUP1)</u> Source: SA84228-01										
Prepared & Analyzed: 10-Sep-08										
Reactivity	Negative		mg/kg dry			Nonreactive				200
Reactive Cyanide	BRL		mg/kg dry	24.9		BRL				35
Reactive Sulfide	13.9	J	mg/kg dry	49.7		18.6			29	35
<u>Reference (8090727-SRM1)</u>										
Prepared & Analyzed: 10-Sep-08										
Reactive Cyanide	6.45		mg/kg wet	25.0	100		6	0-200		
<u>Reference (8090727-SRM2)</u>										
Prepared & Analyzed: 10-Sep-08										
Reactive Sulfide	96.2		mg/kg wet	50.0	6700		1	0-200		
Batch 8091242 - General Preparation										
<u>Duplicate (8091242-DUP1)</u> Source: SA84620-01										
Prepared & Analyzed: 17-Sep-08										
Flashpoint	> 200		°F			0				35
<u>Reference (8091242-SRM1)</u>										
Prepared & Analyzed: 17-Sep-08										
Flashpoint	79		°F		81.0		98	95-105		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811679				
Calibration Check (S811679-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.305593E+11	1.173069E+08	-10.2	25.00
C19-C36 Aliphatic Hydrocarbons	1.197509E+11	1.125491E+08	1.4	25.00
C11-C22 Aromatic Hydrocarbons	14015.36	13.31725	-16.5	25.00
Naphthalene	6.167184	5.690232	-7.7	20.00
2-Methylnaphthalene	3.814834	3.518119	-7.8	20.00
Acenaphthylene	5.788169	5.162129	-10.8	20.00
Acenaphthene	3.599584	3.140917	-12.7	20.00
Fluorene	4.194343	3.530934	-15.8	20.00
Phenanthrene	5.231414	4.761903	-9.0	20.00
Anthracene	5.561509	5.021748	-9.7	20.00
Fluoranthene	5.709302	5.114225	-10.4	20.00
Pyrene	5.998504	5.274588	-12.1	20.00
Benzo (a) anthracene	4.755534	4.777736	0.5	20.00
Chrysene	5.368568	4.837344	-9.9	20.00
Benzo (b) fluoranthene	4.657607	5.141991	10.4	20.00
Benzo (k) fluoranthene	5.007614	4.807424	-4.0	20.00
Benzo (a) pyrene	4.485912	5.06445	12.9	20.00
Indeno (1,2,3-cd) pyrene	5.036025	5.994602	19.0	20.00
Dibenzo (a,h) anthracene	4.104394	4.851218	18.2	20.00
Benzo (g,h,i) perylene	4.47121	5.324343	19.1	20.00
5-alpha-Androstane	2330.995	1	-100	
5-alpha-Androstane	2330995	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811715				
Calibration Check (S811715-CCV1)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11	2.770992E+08	15.3	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11	2.323363E+08	-5.9	25.00
C11-C22 Aromatic Hydrocarbons	14638.4	13.27598	-17.6	25.00
Naphthalene	5.923746	5.605213	-5.4	20.00
2-Methylnaphthalene	3.665423	3.399498	-7.3	20.00
Acenaphthylene	5.620966	5.255139	-6.5	20.00
Acenaphthene	3.773925	3.64774	-3.3	20.00
Fluorene	4.181194	4.055498	-3.0	20.00
Phenanthrene	5.729815	5.779665	0.9	20.00
Anthracene	6.47655	5.897027	-8.9	20.00
Fluoranthene	6.351833	5.904873	-7.0	20.00
Pyrene	6.594278	6.132393	-7.0	20.00
Benzo (a) anthracene	5.03499	4.881577	-3.0	20.00
Chrysene	5.83907	5.24856	-10.1	20.00
Benzo (b) fluoranthene	3.16183	3.092325	-2.2	20.00
Benzo (k) fluoranthene	5.989923	5.285699	-11.8	20.00
Benzo (a) pyrene	4.477297	3.833454	-14.4	20.00
Indeno (1,2,3-cd) pyrene	4.809936	4.91545	2.2	20.00
Dibenzo (a,h) anthracene	3.967358	4.073086	2.7	20.00
Benzo (g,h,i) perylene	4.394929	4.437731	1.0	20.00
5-alpha-Androstane	30931.94	1	-100	
5-alpha-Androstane	1	1	0.0	

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811715				
Calibration Check (S811715-CCV2)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11	2.550568E+08	5.5	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11	2.238369E+08	-10.1	25.00
C11-C22 Aromatic Hydrocarbons	14638.4	12.70754	-21.2	25.00
Naphthalene	5.923746	5.70035	-3.8	20.00
2-Methylnaphthalene	3.665423	3.499001	-4.5	20.00
Acenaphthylene	5.620966	5.367496	-4.5	20.00
Acenaphthene	3.773925	3.792386	0.5	20.00
Fluorene	4.181194	4.120978	-1.4	20.00
Phenanthrene	5.729815	5.73219	0.04	20.00
Anthracene	6.47655	5.771686	-10.9	20.00
Fluoranthene	6.351833	5.836973	-8.1	20.00
Pyrene	6.594278	6.034175	-8.5	20.00
Benzo (a) anthracene	5.03499	4.483156	-11.0	20.00
Chrysene	5.83907	5.163478	-11.6	20.00
Benzo (b) fluoranthene	3.16183	3.029265	-4.2	20.00
Benzo (k) fluoranthene	5.989923	5.118424	-14.5	20.00
Benzo (a) pyrene	4.477297	3.819685	-14.7	20.00
Indeno (1,2,3-cd) pyrene	4.809936	4.533585	-5.7	20.00
Dibenzo (a,h) anthracene	3.967358	3.733216	-5.9	20.00
Benzo (g,h,i) perylene	4.394929	4.217722	-4.0	20.00
5-alpha-Androstane	30931.94	1	-100	
5-alpha-Androstane	1	1	0.0	

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811762				
Calibration Check (S811762-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.305593E+11	1.138813E+08	-12.8	25.00
C19-C36 Aliphatic Hydrocarbons	1.197509E+11	1.165293E+08	5.5	25.00
C11-C22 Aromatic Hydrocarbons	14015.36		-20.0	25.00
Naphthalene	6.167184	5.58988	-9.4	20.00
2-Methylnaphthalene	3.814834	3.399133	-10.9	20.00
Acenaphthylene	5.788169	5.000953	-13.6	20.00
Acenaphthene	3.599584	3.07687	-14.5	20.00
Fluorene	4.194343	3.596006	-14.3	20.00
Phenanthrene	5.231414	4.585384	-12.3	20.00
Anthracene	5.561509	4.844145	-12.9	20.00
Fluoranthene	5.709302	4.88995	-14.4	20.00
Pyrene	5.998504	4.969654	-17.2	20.00
Benzo (a) anthracene	4.755534	4.192132	-11.8	20.00
Chrysene	5.368568	4.415538	-17.8	20.00
Benzo (b) fluoranthene	4.657607	4.683242	0.6	20.00
Benzo (k) fluoranthene	5.007614	4.250177	-15.1	20.00
Benzo (a) pyrene	4.485912	4.347178	-3.1	20.00
Indeno (1,2,3-cd) pyrene	5.036025	4.899488	-2.7	20.00
Dibenzo (a,h) anthracene	4.104394	4.029691	-1.8	20.00
Benzo (g,h,i) perylene	4.47121	4.353364	-2.6	20.00
5-alpha-Androstane	2330.995	1	-100	
5-alpha-Androstane	2330995	1	-100	

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811762				
Calibration Check (S811762-CCV2)				
C9-C18 Aliphatic Hydrocarbons	1.305593E+11	1.166509E+08	-10.7	25.00
C19-C36 Aliphatic Hydrocarbons	1.197509E+11	1.031763E+08	-8.5	25.00
C11-C22 Aromatic Hydrocarbons	14015.36		-18.8	25.00
Naphthalene	6.167184	5.465786	-11.4	20.00
2-Methylnaphthalene	3.814834	3.460771	-9.3	20.00
Acenaphthylene	5.788169	5.022431	-13.2	20.00
Acenaphthene	3.599584	3.017625	-16.2	20.00
Fluorene	4.194343	3.661505	-12.7	20.00
Phenanthrene	5.231414	4.546151	-13.1	20.00
Anthracene	5.561509	4.986148	-10.3	20.00
Fluoranthene	5.709302	4.936175	-13.5	20.00
Pyrene	5.998504	5.033695	-16.1	20.00
Benzo (a) anthracene	4.755534	4.319565	-9.2	20.00
Chrysene	5.368568	4.487045	-16.4	20.00
Benzo (b) fluoranthene	4.657607	4.873804	4.6	20.00
Benzo (k) fluoranthene	5.007614	4.215953	-15.8	20.00
Benzo (a) pyrene	4.485912	4.456537	-0.7	20.00
Indeno (1,2,3-cd) pyrene	5.036025	5.120365	1.7	20.00
Dibenzo (a,h) anthracene	4.104394	4.215029	2.7	20.00
Benzo (g,h,i) perylene	4.47121	4.627385	3.5	20.00
5-alpha-Androstane	2330995	1	-100	
5-alpha-Androstane	2330.995	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Batch S811746

Calibration Check (S811746-CCV1)

gamma-BHC (Lindane)	1.553456	1.596028	2.7	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.641231	-0.6	15.00
Heptachlor	1.496653	1.635406	9.3	15.00
Heptachlor [2C]	1.647997	1.648615	0.04	15.00
Heptachlor epoxide	1.25889	1.320898	4.9	15.00
Heptachlor Epoxide [2C]	1.39597	1.407385	0.8	15.00
Dieldrin	1.223816	1.309154	7.0	15.00
Dieldrin [2C]	1.376967	1.445846	5.0	15.00
4,4'-DDE (p,p')	1.182727	1.262176	6.7	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.349231	3.1	15.00
Endrin	1.072408	1.172539	9.3	15.00
Endrin [2C]	1.244939	1.305846	4.9	15.00
4,4'-DDD (p,p')	1.008081	1.095682	8.7	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.114769	3.0	15.00
4,4'-DDT (p,p')	0.9553523	1.056477	10.6	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.110769	-2.6	15.00
Methoxychlor	0.4958803	0.5677029	14.5	15.00
Methoxychlor [2C]	0.6278387	0.684	8.9	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.598446	1.7	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.593077	5.7	
Decachlorobiphenyl (Sr)	1.349608	1.411485	4.6	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.754615	6.6	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811746				
Calibration Check (S811746-CCV2)				
gamma-BHC (Lindane)	1.553456	1.526278	-1.7	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.584189	-4.1	15.00
Heptachlor	1.496653	1.565381	4.6	15.00
Heptachlor [2C]	1.647997	1.603606	-2.7	15.00
Heptachlor epoxide	1.25889	1.270852	1.0	15.00
Heptachlor Epoxide [2C]	1.39597	1.353121	-3.1	15.00
Dieldrin	1.223816	1.316413	7.6	15.00
Dieldrin [2C]	1.376967	1.365326	-0.8	15.00
4,4'-DDE (p,p')	1.182727	1.245202	5.3	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.291262	-1.3	15.00
Endrin	1.072408	1.176323	9.7	15.00
Endrin [2C]	1.244939	1.267406	1.8	15.00
4,4'-DDD (p,p')	1.008081	1.076771	6.8	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.095978	1.3	15.00
4,4'-DDT (p,p')	0.9553523	1.037489	8.6	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.183356	3.8	15.00
Methoxychlor	0.4958803	0.5686099	14.7	15.00
Methoxychlor [2C]	0.6278387	0.6843273	9.0	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.587444	1.0	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.582524	5.0	
Decachlorobiphenyl (Sr)	1.349608	1.424215	5.5	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.677531	1.9	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Volatile Organic Compounds - CCV Evaluation Report				
Analyte	Average RF	CCRF	% D	Limit
Batch S811512				
Calibration Check (S811512-CCV1)				
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.2224892	0.2470953	11.1	30.00
Acetone	0.1024222	1.676087E-02	-31.4 #	30.00
Acrylonitrile	5.510444E-02	6.051891E-02	9.8	30.00
Benzene	1.358601	1.279711	-5.8	30.00
Bromobenzene	0.7268343	0.6646408	-8.6	30.00
Bromochloromethane	0.1210332	0.1109063	-8.4	30.00
Bromodichloromethane	0.2837733	0.3427191	1.6	30.00
Bromoform	0.1314918	0.1918301	-1.6	30.00
Bromomethane	0.1576317	0.1260247	-20.1	30.00
2-Butanone (MEK)	6.685447E-02	1.422831E-03	-97.9 #	30.00
n-Butylbenzene	4.370075	4.173215	-4.5	30.00
sec-Butylbenzene	4.3554	3.934962	-9.7	30.00
tert-Butylbenzene	2.843856	2.585814	-9.1	30.00
Carbon disulfide	0.8975167	0.9498941	5.8	30.00
Carbon tetrachloride	0.1746868	0.279578	12.4	30.00
Chlorobenzene	2.104018	1.927571	-8.4	30.00
Chloroethane	0.1982137	0.1795317	-9.4	30.00
Chloroform	0.5901054	0.5260042	-10.9	20.00
Chloromethane	0.3111756	0.2913293	-6.4	30.00
2-Chlorotoluene	2.615611	2.425096	-7.3	30.00
4-Chlorotoluene	2.626107	2.539845	-3.3	30.00
1,2-Dibromo-3-chloropropane	3.963018E-02	7.713274E-02	6.6	30.00
Dibromochloromethane	0.1279875	0.1776758	1.8	30.00
1,2-Dibromoethane (EDB)	9.887855E-02	0.1531026	-0.8	30.00
Dibromomethane	0.1273155	0.1228028	-3.5	30.00
1,2-Dichlorobenzene	1.718435	1.639595	-4.6	30.00
1,3-Dichlorobenzene	1.479776	1.336818	-9.7	30.00
1,4-Dichlorobenzene	1.977699	1.853342	-6.3	30.00
Dichlorodifluoromethane (Freon12)	0.2357378	0.2157047	-8.5	30.00
1,1-Dichloroethane	0.522308	0.5818683	11.4	30.00
1,2-Dichloroethane	0.3393495	0.3491528	2.9	30.00
1,1-Dichloroethene	0.2321996	0.2542082	9.5	20.00
cis-1,2-Dichloroethene	0.3162002	0.2989119	-5.5	30.00
trans-1,2-Dichloroethene	0.2768681	0.2937382	6.1	30.00
1,2-Dichloropropane	0.2911843	0.3162699	8.6	20.00
1,3-Dichloropropane	0.3343054	0.3438529	2.9	30.00
2,2-Dichloropropane	8.877847E-02	0.1477939	66.5 #	30.00
1,1-Dichloropropene	0.4602443	0.451411	-1.9	30.00
cis-1,3-Dichloropropene	0.1983823	0.3172862	3.2	30.00
trans-1,3-Dichloropropene	0.1186673	0.194871	-5.4	30.00
Ethylbenzene	4.010895	3.782592	-5.7	20.00
Hexachlorobutadiene	0.8066703	0.6813957	-15.5	30.00
2-Hexanone (MBK)	9.030002E-02	9.266327E-02	2.6	30.00
Isopropylbenzene	3.625176	3.335671	-8.0	30.00
4-Isopropyltoluene	4.477789	4.373443	-2.3	30.00
Methyl tert-butyl ether	0.2945297	0.3677317	24.9	30.00
4-Methyl-2-pentanone (MIBK)	0.1407945	0.1403439	-0.3	30.00

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* Reportable Detection Limit

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811512				
Calibration Check (S811512-CCV1)				
Methylene chloride	0.2514716	0.2846343	13.2	30.00
Naphthalene	1.984919	1.879358	-5.3	30.00
n-Propylbenzene	4.472537	4.316552	-3.5	30.00
Styrene	2.174098	2.091736	-3.8	30.00
1,1,1,2-Tetrachloroethane	0.3407963	0.490421	-2.7	30.00
1,1,2,2-Tetrachloroethane	0.4769675	0.4581064	-4.0	30.00
Tetrachloroethene	0.2357387	0.2228895	-5.5	30.00
Toluene	0.8658921	0.802248	-7.4	20.00
1,2,3-Trichlorobenzene	0.9193396	0.8714747	-5.2	30.00
1,2,4-Trichlorobenzene	1.085022	1.021646	-5.8	30.00
1,1,1-Trichloroethane	0.2306281	0.356753	16.6	30.00
1,3,5-Trichlorobenzene	1.35591	1.289984	-4.9	30.00
1,1,2-Trichloroethane	0.1496209	0.154254	3.1	30.00
Trichloroethene	0.3335366	0.3050451	-8.5	30.00
Trichlorofluoromethane (Freon 11)	0.4140702	0.4170459	0.7	30.00
1,2,3-Trichloropropane	0.3375233	0.3416536	1.2	30.00
1,2,4-Trimethylbenzene	3.168143	2.93549	-7.3	30.00
1,3,5-Trimethylbenzene	3.19235	2.99924	-6.0	30.00
Vinyl chloride	0.2786563	0.2604222	-6.5	20.00
m,p-Xylene	1.481119	1.376549	-7.1	30.00
o-Xylene	1.429702	1.324049	-7.4	30.00
Tetrahydrofuran	4.797706E-02	4.541948E-02	-5.3	30.00
Ethyl ether	0.1246212	0.1183298	-5.0	30.00
Tert-amyl methyl ether	0.3926796	0.2610017	-33.5	# 30.00
Ethyl tert-butyl ether	0.2100784	0.3615252	37.2	# 30.00
Di-isopropyl ether	0.9269949	1.140335	23.0	30.00
Tert-Butanol / butyl alcohol	8.848196E-03	4.503568E-03	-54.7	# 30.00
trans-1,4-Dichloro-2-butene	0.0487646	4.692728E-02	-21.4	30.00
Ethanol	2.253392E-03	2.631101E-03	69.8	# 30.00
1,4-Dioxane	1.083654E-03	1.23737E-03	-3.0	30.00
4-Bromofluorobenzene	0.8285578	0.8123214	-2.0	
Toluene-d8	0.946283	0.9773521	3.3	
1,2-Dichloroethane-d4	0.2328198	0.2473289	6.2	
Dibromofluoromethane	0.2041427	0.208357	2.1	
Fluorobenzene	1	1	0.0	
Chlorobenzene-d5	1	1	0.0	
1,4-Dichlorobenzene-d4	1	1	0.0	

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811573				
Calibration Check (S811573-CCV1)				
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.1462259	0.1425347	-2.5	30.00
Acetone	2.130629E-02	1.495458E-02	-41.8	# 30.00
Acrylonitrile	8.366643E-02	6.496656E-02	-22.4	30.00
Benzene	0.909779	0.8715189	-4.2	30.00
Bromobenzene	0.6301865	0.6191028	-1.8	30.00
Bromochloromethane	0.1074212	0.1029132	-4.2	30.00
Bromodichloromethane	0.2604542	0.2510051	-3.6	30.00
Bromoform	0.2021825	0.1851456	-22.4	30.00
Bromomethane	0.1437819	0.1067384	-25.8	30.00
2-Butanone (MEK)	2.519742E-02	1.942658E-02	-22.9	30.00
n-Butylbenzene	2.170513	2.099213	-3.3	30.00
sec-Butylbenzene	2.699491	2.653472	-1.7	30.00
tert-Butylbenzene	1.778334	1.778237	-0.005	30.00
Carbon disulfide	0.6283499	0.5318144	-15.4	30.00
Carbon tetrachloride	0.2450922	0.2006983	-18.1	30.00
Chlorobenzene	1.553535	1.513199	-2.6	30.00
Chloroethane	0.1464249	0.1301819	-11.1	30.00
Chloroform	0.4225958	0.3500728	-2.5	20.00
Chloromethane	0.2362586	0.217455	-8.0	30.00
2-Chlorotoluene	1.870074	1.844645	-1.4	30.00
4-Chlorotoluene	1.864775	1.831796	-1.8	30.00
1,2-Dibromo-3-chloropropane	9.215876E-02	0.0730271	-20.8	30.00
Dibromochloromethane	0.1687035	0.1570618	-6.9	30.00
1,2-Dibromoethane (EDB)	0.207785	0.1870907	-10.0	30.00
Dibromomethane	0.1320391	0.122056	-7.6	30.00
1,2-Dichlorobenzene	1.282065	1.25179	-2.4	30.00
1,3-Dichlorobenzene	1.241441	1.226026	-1.2	30.00
1,4-Dichlorobenzene	1.403254	1.360587	-3.0	30.00
Dichlorodifluoromethane (Freon12)	0.156837	0.133762	-14.7	30.00
1,1-Dichloroethane	0.3775836	0.3686002	-2.4	30.00
1,2-Dichloroethane	0.3137733	0.2878701	-8.3	30.00
1,1-Dichloroethene	0.1566707	0.1524442	-2.7	20.00
cis-1,2-Dichloroethene	0.2120495	0.2169907	2.3	30.00
trans-1,2-Dichloroethene	0.196214	0.182814	-6.8	30.00
1,2-Dichloropropane	0.2422029	0.2340808	-3.4	20.00
1,3-Dichloropropane	0.3802148	0.3493505	-8.1	30.00
2,2-Dichloropropane	0.2939071	0.2658971	-9.5	30.00
1,1-Dichloropropene	0.2887794	0.2708813	-6.2	30.00
cis-1,3-Dichloropropene	0.3678007	0.3353559	-8.8	30.00
trans-1,3-Dichloropropene	0.3381919	0.2984688	-11.7	30.00
Ethylbenzene	2.634163	2.540354	-3.6	20.00
Hexachlorobutadiene	0.4454211	0.4049326	-9.1	30.00
2-Hexanone (MBK)	0.137923	0.1001032	-27.4	30.00
Isopropylbenzene	2.349308	2.133351	-9.2	30.00
4-Isopropyltoluene	2.414381	2.483279	2.9	30.00
Methyl tert-butyl ether	0.608882	0.4990363	-18.0	30.00
4-Methyl-2-pentanone (MIBK)	3.290488E-02	2.444584E-02	-25.7	30.00
Methylene chloride	0.2175152	0.2020342	-7.1	30.00
Naphthalene	1.80596	1.574262	-12.8	30.00
n-Propylbenzene	2.842481	2.719111	-4.3	30.00
Styrene	1.663627	1.657737	-0.4	30.00

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811573				
Calibration Check (S811573-CCV1)				
1,1,1,2-Tetrachloroethane	0.4634725	0.4361944	-5.9	30.00
1,1,2,2-Tetrachloroethane	0.5277677	0.4595428	-12.9	30.00
Tetrachloroethene	0.1961781	0.1813915	-7.5	30.00
Toluene	0.622954	0.5807356	-6.8	20.00
1,2,3-Trichlorobenzene	0.8128833	0.7546954	-7.2	30.00
1,2,4-Trichlorobenzene	0.8920127	0.8426121	-5.5	30.00
1,1,1-Trichloroethane	0.3017534	0.2798824	-7.2	30.00
1,3,5-Trichlorobenzene	0.9837912	0.920943	-6.4	30.00
1,1,2-Trichloroethane	0.1666804	0.1544379	-7.3	30.00
Trichloroethene	0.2348332	0.2150412	-8.4	30.00
Trichlorofluoromethane (Freon 11)	0.2676409	0.2345046	-12.4	30.00
1,2,3-Trichloropropane	0.4196407	0.396339	-5.6	30.00
1,2,4-Trimethylbenzene	2.109872	2.133545	1.1	30.00
1,3,5-Trimethylbenzene	2.094799	2.102846	0.4	30.00
Vinyl chloride	0.0585646	6.415397E-02	9.5	20.00
m,p-Xylene	1.025681	1.014131	-1.1	30.00
o-Xylene	0.9914307	1.008272	1.7	30.00
Tetrahydrofuran	6.316717E-02	4.820807E-02	-23.7	30.00
Ethyl ether	0.1294514	0.1156769	-10.6	30.00
Tert-amyl methyl ether	0.8382102	0.5739216	-15.9	30.00
Ethyl tert-butyl ether	0.6815801	0.6079287	-10.8	30.00
Di-isopropyl ether	0.7668658	0.6735936	-12.2	30.00
Tert-Butanol / butyl alcohol	2.026515E-02	1.322972E-02	-34.7	# 30.00
trans-1,4-Dichloro-2-butene	0.1703068	0.1364924	-19.9	30.00
Ethanol	2.437166E-03	1.944869E-03	-20.2	30.00
1,4-Dioxane	2.367831E-03	1.829522E-03	-22.7	30.00
4-Bromofluorobenzene	0.8619743	0.8678021	0.7	
Toluene-d8	1.005922	0.99474	-1.1	
1,2-Dichloroethane-d4	0.2883312	0.2750493	-4.6	
Dibromofluoromethane	0.214835	0.215161	0.2	
Fluorobenzene	1	1	0.0	
Chlorobenzene-d5	1	1	0.0	
1,4-Dichlorobenzene-d4	1	1	0.0	

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811681				
Calibration Check (S811681-CCV1)				
Benzene	237501.6	195727.3	-17.6	25.00
Ethylbenzene	172607.5	137381	-20.4	25.00
Methyl tert-butyl ether	96390.9	76753.56	-20.4	25.00
Naphthalene	129087.3	85996.38	-22.0	25.00
Toluene	205795.5	164209	-20.2	25.00
m,p-Xylene	197345.9	154473.1	-21.7	25.00
o-Xylene	166301.6	129535.1	-22.1	25.00
2-Methylpentane	21534.77	22448.02	4.2	25.00
n-Nonane	24150.57	23208.5	-3.9	30.00
n-Pentane	19244.27	19788.7	2.8	25.00
1,2,4-Trimethylbenzene	165813.2	129993.5	-21.6	25.00
2,2,4-Trimethylpentane	25383.45	25007.38	-1.5	25.00
n-Butylcyclohexane	24872.41	23797.58	-4.3	25.00
n-Decane	21138.63	19258.48	-8.9	25.00
2,5-Dibromotoluene (FID)	9822200	9488.21	-99.9	
2,5-Dibromotoluene (PID)	1.299474E+08	101742.6	-99.9	

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811757				
Calibration Check (S811757-CCV1)				
Benzene	161018.3	135393.1	-15.9	25.00
Ethylbenzene	113045.3	93090.78	-17.7	25.00
Methyl tert-butyl ether	52610.26	54660.34	-13.1	25.00
Naphthalene	38487.3	29063.5	-24.5	25.00
Toluene	145051.7	118788.6	-18.1	25.00
m,p-Xylene	130486.5	108645.6	-16.7	25.00
o-Xylene	112284.8	93310.1	-16.9	25.00
2-Methylpentane	112139.2	118968.6	6.1	25.00
n-Nonane	133820.7	142067.7	6.2	30.00
n-Pentane	115875.8	108328	-6.5	25.00
1,2,4-Trimethylbenzene	131909.9	99582.2	-24.5	25.00
2,2,4-Trimethylpentane	136529	142140.3	4.1	25.00
n-Butylcyclohexane	132836.7	136883.3	3.0	25.00
n-Decane	121394.6	117869.1	-2.9	25.00
2,5-Dibromotoluene (FID)	49192.75	22055.25	-55.2	
2,5-Dibromotoluene (PID)	89943.8	35604.66	-60.4	

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811780				
Calibration Check (S811780-CCV1)				
Benzene	0.909779	1.040717	14.4	30.00
2-Butanone (MEK)	2.519742E-02	0.0234319	-7.0	30.00
Carbon tetrachloride	0.2450922	0.228025	-7.0	30.00
Chlorobenzene	1.553535	1.681077	8.2	30.00
Chloroform	0.4225958	0.3875152	7.6	20.00
1,2-Dichloroethane	0.3137733	0.3141018	0.1	30.00
1,1-Dichloroethene	0.1566707	0.1878242	19.9	20.00
Tetrachloroethene	0.1961781	0.2162816	10.2	30.00
Toluene	0.622954	0.6828532	9.6	20.00
Trichloroethene	0.2348332	0.2593997	10.5	30.00
Vinyl chloride	0.0585646	7.016841E-02	19.8	20.00
4-Bromofluorobenzene	0.8619743	0.8423817	-2.3	
Toluene-d8	1.005922	0.9846366	-2.1	
1,2-Dichloroethane-d4	0.2883312	0.2608533	-9.5	
Dibromofluoromethane	0.214835	0.2077377	-3.3	
Fluorobenzene	1	1	0.0	
Chlorobenzene-d5	1	1	0.0	
1,4-Dichlorobenzene-d4	1	1	0.0	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

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Notes and Definitions

pHHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for pH is not specified within the method other than to state that the samples should be analyzed as soon as possible.
QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR3	The RPD value for the sample duplicate or MS/MSD was outside the QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR4	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR7	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
VOC6	The production of Acetone and other ketones is commonly seen when using the SW 846 5035A extraction technique.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2), (4), and (5); however, Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja
Rebecca Merz

Matrix	Ground Water Soil		
Containers	☒ Satisfactory ☐ Broken ☐ Leaking		
Sample Preservative	Aqueous (acid-preserved)	☐ N/A ☒ pH $\leq$ 2 ☐ pH>2 Comment:	
	Soil or Sediment	☐ N/A ☐ Samples not received in Methanol or air-tight container	
		☒ Samples received in Methanol: ☒ covering soil/sediment ☐ not covering soil/sediment	
		☐ Samples received in air-tight container:	
Temperature	☒ Received on ice ☒ Received at 4 $\pm$ 2 $^{\circ}$ C ☐ Other: $^{\circ}$ C		

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method

Matrix	Soil Ground Water				
Containers	☒ Satisfactory ☐ Broken ☐ Leaking				
Aqueous Preservative	☐ N/A	☒ pH $\leq$ 2	☐ pH>2	☐ pH adjusted to <2 in lab	Comment:
Temperature	☒ Received on ice ☒ Received at 4 $\pm$ 2 $^{\circ}$ C ☐ Other: $^{\circ}$ C				

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA		Project #: 02355-159	
Project Location: Spectra -J-2 - Medford, MA		MADEP RTN ¹ :	
This form provides certifications for the following data set: SA84228-01 through SA84228-08			
Sample matrices:	Aqueous Ground Water Soil		
MCP SW-846 Methods Used	☒ 8260B	☒ 8151A	☐ 8330
	☒ 8270C	☒ 8081A	☒ VPH
	☒ 8082	☐ 8021B	☒ EPH
	☒ 6010B	☒ 7470A/1A	
	☐ 6020	☐ 9014M ²	
	☐ 7000S ³	☐ 7196A	
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte			
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>			
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?		☒ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?		☒ Yes ☐ No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?		☒ Yes ☐ No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?		☒ Yes ☐ No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>			
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?		☒ Yes ☐ No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?		☐ Yes ☒ No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 9/22/2008			

Report Date:
04-Sep-08 15:44



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

ENSR Corporation
2 Technology Park Drive
Westford, MA 01886-3140
Attn: Cheryl Cormier

Project: Spectra -J-2 Loop - Somerville, MA
Project 02355159

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA83399-01	SB-35	Soil	19-Aug-08 11:30	20-Aug-08 15:21
SA83399-02	SB-35 (10)	Soil	19-Aug-08 11:20	20-Aug-08 15:21
SA83399-03	SB-35 (20)	Soil	19-Aug-08 11:25	20-Aug-08 15:21
SA83399-04	SB35	Ground Water	19-Aug-08 10:40	20-Aug-08 15:21
SA83399-05	SB-34	Soil	19-Aug-08 13:20	20-Aug-08 15:21
SA83399-06	SB-34 (10)	Soil	19-Aug-08 13:30	20-Aug-08 15:21
SA83399-07	SB-34 (20)	Soil	19-Aug-08 13:40	20-Aug-08 15:21
SA83399-08	Trip 8-19	Aqueous	19-Aug-08 00:00	20-Aug-08 15:21

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 72 pages of analytical data plus Chain of Custody document(s).

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Sample Identification

SB-35

SA83399-01

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 11:30

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Aug-08	20-Aug-08	8081613	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.29 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	6.7	1	SW 846 8260B	25-Aug-08	26-Aug-08	8081859	
67-64-1	Acetone	BRL		µg/kg dry	66.6	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.7	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	66.6	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	33.3	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	13.3	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	13.3	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.7	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	66.6	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	66.6	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	66.6	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	6.7	1	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 2 of 72

Sample Identification

SB-35

SA83399-01

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 11:30

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.29 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.7	1	SW 846 8260B	25-Aug-08	26-Aug-08	8081859	
100-42-5	Styrene	BRL		µg/kg dry	6.7	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.7	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.7	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	13.3	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.7	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	66.6	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	66.6	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	133	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	33.3	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2660	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	99		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	100		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	103		70-130 %			"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 12.69 g					
C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	1.21	50	MADEP VPH 5/2004 Rev. 1.1	26-Aug-08	26-Aug-08	8081949	
C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.404	50	"	"	"	"	
C9-C10 Aromatic Hydrocarbons	BRL			mg/kg dry	0.404	50	"	"	"	"	
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	1.21	50	"	"	"	"	
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.404	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 12.69 g					
71-43-2	Benzene	BRL		µg/kg dry	80.8	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	80.8	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	80.8	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	80.8	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	80.8	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	162	50	"	"	"	"	

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* Reportable Detection Limit

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Sample Identification

SB-35

SA83399-01

Client Project #

02355159

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 12.69 g					
95-47-6	o-Xylene	BRL		µg/kg dry	80.8	50	MADEP VPH 5/2004	26-Aug-08	26-Aug-08	8081949	
Rev. 1.1											
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	114		70-130 %			"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	111		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	536	1	SW846 8270C	22-Aug-08	27-Aug-08	8081816	
208-96-8	Acenaphthylene	BRL		µg/kg dry	536	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	536	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	536	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	536	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	536	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	536	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	536	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	536	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	536	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	536	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	536	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	536	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	536	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	536	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	536	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	536	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	536	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	536	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	536	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	536	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	536	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	536	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	536	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	536	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	536	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	536	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	536	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	536	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	536	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	536	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	536	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	536	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	536	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	536	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	536	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	536	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	536	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	536	1	"	"	"	"	

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Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	536	1	SW846 8270C	22-Aug-08	27-Aug-08	8081816	
206-44-0	Fluoranthene	BRL		µg/kg dry	536	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	536	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	536	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	536	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	536	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	536	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	536	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	536	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	536	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	536	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	536	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	536	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	536	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	536	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	2150	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	536	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	2150	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	536	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	536	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	536	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	536	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	536	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	536	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	536	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/kg dry	536	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	536	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	536	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	536	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	71		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	83		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	65		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	71		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	75		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	60		15-110 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	23.5	1	SW846 8082	22-Aug-08	25-Aug-08	8081818	
11104-28-2	PCB 1221	BRL		µg/kg dry	23.5	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/kg dry	23.5	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	23.5	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	23.5	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	23.5	1	"	"	"	"	

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Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
11096-82-5	PCB 1260	BRL		µg/kg dry	23.5	1	SW846 8082	22-Aug-08	25-Aug-08	8081818	
37324-23-5	PCB 1262	BRL		µg/kg dry	23.5	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	23.5	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	79		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.9	1	MADEP EPH 5/2004 R	25-Aug-08	28-Aug-08	8081889	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.9	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.9	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.9	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.9	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.9	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	54.1	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	54.1	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	54.1	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	54.1	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	54.1	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	54.1	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	54.1	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	54.1	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	54.1	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	54.1	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	54.1	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	54.1	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	54.1	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	54.1	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	54.1	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	54.1	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	54.1	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	58		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	49		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	51		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
8006-61-9	Gasoline	BRL		mg/kg dry	21.6	1	+SW846 8100Mod.	22-Aug-08	25-Aug-08	8081817	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	21.6	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	21.6	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	21.6	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	21.6	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	21.6	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	21.6	1	"	"	"	"	

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SA83399-01

Client Project #

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Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
	Unidentified	BRL		mg/kg dry	21.6	1	+SW846 8100Mod.	22-Aug-08	25-Aug-08	8081817	
	Other Oil	BRL		mg/kg dry	21.6	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	21.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	116		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-97-6	Mercury	BRL		mg/kg dry	0.0349	1	SW846 7471A	26-Aug-08	27-Aug-08	8081965	
Total Metals by EPA 200 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.79	1	EPA 200.7	28-Aug-08	02-Sep-08	8082115	
7440-38-2	Arsenic	9.51		mg/kg dry	1.79	1	"	"	"	"	
7440-39-3	Barium	70.6		mg/kg dry	1.20	1	"	"	"	"	
7440-43-9	Cadmium	0.646		mg/kg dry	0.598	1	"	"	"	"	
7440-47-3	Chromium	36.0		mg/kg dry	1.20	1	"	"	"	"	
7439-92-1	Lead	14.0		mg/kg dry	1.79	1	"	"	"	"	
7782-49-2	Selenium	3.87		mg/kg dry	1.79	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	83.4		%		1	SM2540 G Mod.	21-Aug-08	21-Aug-08	8081661	
Toxicity Characteristics											
	Flashpoint	> 200		°F		1	SW846 1010	21-Aug-08	21-Aug-08	8081676	
	pH	7.02	pHHT	pH Units		1	SW846 9045C	20-Aug-08 18:16	20-Aug-08 18:34	8081611	
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/kg dry		1	SW846 Ch. 7.3	21-Aug-08	21-Aug-08	8081656	
	Reactive Cyanide	BRL		mg/kg dry	25.0	1	"	"	"	"	
	Reactive Sulfide	BRL		mg/kg dry	50.0	1	"	"	"	"	

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Sample Identification**SB-35 (10)**

SA83399-02

Client Project #

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Matrix

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Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Resistivity	1,470		ohm.cm		1	SM 2510B	25-Aug-08	25-Aug-08	8081878	

Sample Identification**SB-35 (20)**

SA83399-03

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 11:25

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Resistivity	4,330		ohm.cm		1	SM 2510B	25-Aug-08	25-Aug-08	8081878	

Sample Identification

SB35

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

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20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/l	1.0	1	SW 846 8260B	22-Aug-08	22-Aug-08	8081769	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

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Sample Identification

SB35

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	22-Aug-08	22-Aug-08	8081769	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	91			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %		"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B											
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	1	MADEP VPH 5/2004 Rev. 1.1	26-Aug-08	26-Aug-08	8081951	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	1	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	1	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
71-43-2	Benzene	BRL		µg/l	5.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	5.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	5.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	10.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	5.0	1	"	"	"	"	

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Sample Identification

SB35

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

Received

20-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
<i>Surrogate recoveries:</i>											
615-59-8	2,5-Dibromotoluene (FID)	87		70-130 %			MADEP VPH 5/2004	26-Aug-08	26-Aug-08	8081951	
							Rev. 1.1				
615-59-8	2,5-Dibromotoluene (PID)	80		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	8.33	1	SW846 8270C	21-Aug-08	23-Aug-08	8081625	
208-96-8	Acenaphthylene	BRL		µg/l	8.33	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/l	8.33	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	8.33	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/l	8.33	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	8.33	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/l	8.33	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	8.33	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	8.33	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	8.33	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	8.33	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	8.33	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/l	8.33	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/l	8.33	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	8.33	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	8.33	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/l	8.33	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	8.33	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	8.33	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/l	8.33	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/l	8.33	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	8.33	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/l	8.33	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/l	8.33	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/l	8.33	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	8.33	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	8.33	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	8.33	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/l	8.33	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/l	8.33	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/l	8.33	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/l	8.33	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/l	8.33	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/l	8.33	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/l	8.33	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	8.33	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/l	8.33	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	8.33	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	8.33	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/l	8.33	1	"	"	"	"	

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Sample Identification

SB35

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
206-44-0	Fluoranthene	BRL		µg/l	8.33	1	SW846 8270C	21-Aug-08	23-Aug-08	8081625	
86-73-7	Fluorene	BRL		µg/l	8.33	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	8.33	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	8.33	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	8.33	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	8.33	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/l	8.33	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	8.33	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	8.33	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	16.7	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	8.33	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/l	8.33	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/l	8.33	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/l	33.3	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	8.33	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/l	8.33	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/l	33.3	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	8.33	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	8.33	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	8.33	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	33.3	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	8.33	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/l	8.33	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	8.33	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	8.33	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/l	8.33	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	8.33	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	8.33	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/l	8.33	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/l	8.33	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	70			30-130 %		"	"	"	"	
367-12-4	2-Fluorophenol	84			15-110 %		"	"	"	"	
4165-60-0	Nitrobenzene-d5	61			30-130 %		"	"	"	"	
4165-62-2	Phenol-d5	78			15-110 %		"	"	"	"	
1718-51-0	Terphenyl-d14	86			30-130 %		"	"	"	"	
118-79-6	2,4,6-Tribromophenol	72			15-110 %		"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.222	1	SW846 8082	21-Aug-08	25-Aug-08	8081616	
11104-28-2	PCB 1221	BRL		µg/l	0.222	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/l	0.222	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/l	0.222	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/l	0.222	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/l	0.222	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/l	0.222	1	"	"	"	"	

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Sample Identification

SB35

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3510C											
37324-23-5	PCB 1262	BRL		µg/l	0.222	1	SW846 8082	21-Aug-08	25-Aug-08	8081616	
11100-14-4	PCB 1268	BRL		µg/l	0.222	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	65		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	MADEP EPH 5/2004 R	21-Aug-08	25-Aug-08	8081631	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
91-20-3	Naphthalene	BRL		µg/l	7.69	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	7.69	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/l	7.69	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/l	7.69	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/l	7.69	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	7.69	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	7.69	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/l	7.69	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	7.69	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	7.69	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	7.69	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	7.69	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	7.69	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	7.69	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	7.69	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	7.69	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	7.69	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	42		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	59		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	73		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.3	1	+SW846 8100Mod.	25-Aug-08	02-Sep-08	8082052	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.3	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.3	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.3	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.3	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/l	0.3	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.3	1	"	"	"	"	
	Hydraulic Oil	BRL		mg/l	0.3	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**SB35**

SA83399-04

Client Project #

02355159

Matrix

Ground Water

Collection Date/Time

19-Aug-08 10:40

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3510C											
	Dielectric Fluid	BRL		mg/l	0.3	1	+SW846 8100Mod.	25-Aug-08	02-Sep-08	8082052	
	Unidentified	BRL		mg/l	0.3	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.3	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.3	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	42		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	0.0079		mg/l	0.0050	1	SW846 6010B	28-Aug-08	28-Aug-08	8081687	
7440-38-2	Arsenic	0.0858		mg/l	0.0040	1	"	"	"	"	
7440-39-3	Barium	0.752		mg/l	0.0050	1	"	"	"	"	
7440-43-9	Cadmium	0.0048		mg/l	0.0025	1	"	"	"	"	
7440-47-3	Chromium	0.336		mg/l	0.0050	1	"	"	"	"	
7439-92-1	Lead	0.115		mg/l	0.0075	1	"	"	"	"	
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	28-Aug-08	28-Aug-08	8081688	X
General Chemistry Parameters											
	Flashpoint	> 150		°F		1	SW846 1010	21-Aug-08	21-Aug-08	8081677	
	pH	6.86	pHHT	pH Units		1	ASTM D 1293-99B	20-Aug-08 16:00	20-Aug-08 18:25	8081609	X
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/l		1	SW846 Ch. 7.3	25-Aug-08	25-Aug-08	8081916	
	Reactive Cyanide	BRL		mg/l	25.0	1	"	"	"	"	
	Reactive Sulfide	BRL		mg/l	50.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Aug-08	20-Aug-08	8081613	
Volatile Organic Compounds				VC10	Initial weight: 6.7 g						
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.3	1	SW 846 8260B	26-Aug-08	26-Aug-08	8081966	
67-64-1	Acetone	BRL		µg/kg dry	62.8	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.3	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.3	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	12.6	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	62.8	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	31.4	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	12.6	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.3	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	12.6	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.3	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.3	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	12.6	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.3	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon 12)	BRL		µg/kg dry	12.6	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.3	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.3	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.3	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.3	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.3	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.3	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.3	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.3	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.3	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.3	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	62.8	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.3	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	62.8	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	62.8	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	6.3	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds			VC10	Initial weight: 6.7 g							
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.3	1	SW 846 8260B	26-Aug-08	26-Aug-08	8081966	
100-42-5	Styrene	BRL		µg/kg dry	6.3	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.3	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.3	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.3	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.3	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	12.6	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.3	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	62.8	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.3	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.3	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.3	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.3	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	62.8	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	126	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	31.4	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2510	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	4-Bromofluorobenzene	90		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	123		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	104		70-130 %			"	"	"	"	
VPH Aliphatic/Aromatic Carbon Ranges											
Prepared by method VPH - EPA 5030B			Initial weight: 16.21 g								
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	1.12	50	MADEP VPH 5/2004 Rev. 1.1	26-Aug-08	26-Aug-08	8081949	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.372	50	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/kg dry	0.372	50	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	1.12	50	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.372	50	"	"	"	"	
VPH Target Analytes											
Prepared by method VPH - EPA 5030B			Initial weight: 16.21 g								
71-43-2	Benzene	BRL		µg/kg dry	74.4	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	74.4	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	74.4	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	74.4	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	74.4	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	149	50	"	"	"	"	

Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 16.21 g					
95-47-6	o-Xylene	BRL		µg/kg dry	74.4	50	MADEP VPH 5/2004	26-Aug-08	26-Aug-08	8081949	
Rev. 1.1											
<i>Surrogate recoveries:</i>											
615-59-8	2,5-Dibromotoluene (FID)	118		70-130 %			"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	114		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	611	1	SW846 8270C	22-Aug-08	27-Aug-08	8081816	
208-96-8	Acenaphthylene	BRL		µg/kg dry	611	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	611	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	611	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	611	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	611	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	611	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	611	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	611	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	611	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	611	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	611	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	611	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	611	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	611	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	611	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	611	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	611	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	611	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	611	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	611	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	611	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	611	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	611	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	611	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	611	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	611	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	611	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	611	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	611	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	611	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	611	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	611	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	611	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	611	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	611	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	611	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	611	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	611	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	611	1	SW846 8270C	22-Aug-08	27-Aug-08	8081816	
206-44-0	Fluoranthene	BRL		µg/kg dry	611	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	611	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	611	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	611	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	611	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	611	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	611	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	611	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	611	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	611	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	611	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	611	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	611	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	611	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	2440	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	611	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	2440	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	611	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	611	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	611	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	611	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	611	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	611	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	611	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/kg dry	611	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	611	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	611	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	611	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	69		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	81		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	67		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	71		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	71		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	59		15-110 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	28.2	1	SW846 8082	22-Aug-08	25-Aug-08	8081818	
11104-28-2	PCB 1221	BRL		µg/kg dry	28.2	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/kg dry	28.2	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	28.2	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	28.2	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	28.2	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
11096-82-5	PCB 1260	BRL		µg/kg dry	28.2	1	SW846 8082	22-Aug-08	25-Aug-08	8081818	
37324-23-5	PCB 1262	BRL		µg/kg dry	28.2	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	28.2	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	97		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	24.7	1	MADEP EPH 5/2004 R	25-Aug-08	28-Aug-08	8081889	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	24.7	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	24.7	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	24.7	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	24.7	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	24.7	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	123	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	123	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	123	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	123	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	123	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	123	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	123	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	123	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	123	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	123	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	123	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	123	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	123	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	123	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	123	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	123	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	123	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	64		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	55		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	61		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
8006-61-9	Gasoline	BRL		mg/kg dry	24.6	1	+SW846 8100Mod.	22-Aug-08	25-Aug-08	8081817	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	24.6	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	24.6	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	24.6	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	24.6	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	24.6	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	24.6	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-34

SA83399-05

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:20

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
	Unidentified	BRL		mg/kg dry	24.6	1	+SW846 8100Mod.	22-Aug-08	25-Aug-08	8081817	
	Other Oil	BRL		mg/kg dry	24.6	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	24.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	64		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-97-6	Mercury	BRL		mg/kg dry	0.0357	1	SW846 7471A	26-Aug-08	27-Aug-08	8081965	
Total Metals by EPA 200 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.77	1	EPA 200.7	28-Aug-08	02-Sep-08	8082115	
7440-38-2	Arsenic	10.9		mg/kg dry	1.77	1	"	"	"	"	
7440-39-3	Barium	89.1		mg/kg dry	1.18	1	"	"	"	"	
7440-43-9	Cadmium	0.744		mg/kg dry	0.591	1	"	"	"	"	
7440-47-3	Chromium	46.8		mg/kg dry	1.18	1	"	"	"	"	
7439-92-1	Lead	18.6		mg/kg dry	1.77	1	"	"	"	"	
7782-49-2	Selenium	4.73		mg/kg dry	1.77	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	77.4		%		1	SM2540 G Mod.	22-Aug-08	22-Aug-08	8081797	
Toxicity Characteristics											
	Flashpoint	> 200		°F		1	SW846 1010	21-Aug-08	21-Aug-08	8081676	
	pH	6.81	pHHT	pH Units		1	SW846 9045C	20-Aug-08 18:16	20-Aug-08 18:35	8081611	
<u>Reactivity Cyanide/Sulfide</u>											
Prepared by method General Preparation											
	Reactivity	Nonreactive		mg/kg dry		1	SW846 Ch. 7.3	21-Aug-08	21-Aug-08	8081656	
	Reactive Cyanide	BRL		mg/kg dry	25.0	1	"	"	"	"	
	Reactive Sulfide	BRL		mg/kg dry	50.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**SB-34 (10)**

SA83399-06

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:30

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Resistivity	664		ohm.cm		1	SM 2510B	25-Aug-08	25-Aug-08	8081878	

Sample Identification**SB-34 (20)**

SA83399-07

Client Project #

02355159

Matrix

Soil

Collection Date/Time

19-Aug-08 13:40

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Resistivity	709		ohm.cm		1	SM 2510B	25-Aug-08	25-Aug-08	8081878	

Sample Identification**Trip 8-19**

SA83399-08

Client Project #

02355159

Matrix

Aqueous

Collection Date/Time

19-Aug-08 00:00

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/l	1.0	1	SW 846 8260B	22-Aug-08	22-Aug-08	8081769	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**Trip 8-19**

SA83399-08

Client Project #

02355159

Matrix

Aqueous

Collection Date/Time

19-Aug-08 00:00

Received

20-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	22-Aug-08	22-Aug-08	8081769	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	123			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %		"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
<u>Blank (8081769-BLK1)</u>										
Prepared & Analyzed: 22-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
<u>Blank (8081769-BLK1)</u>										
Prepared & Analyzed: 22-Aug-08										
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	46.7		µg/l		50.0		93	70-130		
Surrogate: Toluene-d8	50.5		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.6		µg/l		50.0		103	70-130		
Surrogate: Dibromofluoromethane	51.9		µg/l		50.0		104	70-130		
<u>LCS (8081769-BS1)</u>										
Prepared & Analyzed: 22-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.2		µg/l		20.0		111	70-130		
Acetone	10.0		µg/l		20.0		50	5.22-177		
Acrylonitrile	17.2		µg/l		20.0		86	70-130		
Benzene	18.1		µg/l		20.0		91	70-130		
Bromobenzene	19.8		µg/l		20.0		99	70-130		
Bromochloromethane	19.5		µg/l		20.0		97	70-130		
Bromodichloromethane	20.1		µg/l		20.0		100	70-130		
Bromoform	17.2		µg/l		20.0		86	70-130		
Bromomethane	19.4		µg/l		20.0		97	20.3-173		
2-Butanone (MEK)	19.6		µg/l		20.0		98	40.1-155		
n-Butylbenzene	20.2		µg/l		20.0		101	70-130		
sec-Butylbenzene	19.0		µg/l		20.0		95	70-130		
tert-Butylbenzene	18.9		µg/l		20.0		94	70-130		
Carbon disulfide	18.1		µg/l		20.0		90	70-130		
Carbon tetrachloride	20.9		µg/l		20.0		104	70-130		
Chlorobenzene	19.6		µg/l		20.0		98	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
<u>LCS (8081769-BS1)</u>										
Prepared & Analyzed: 22-Aug-08										
Chloroethane	18.6		µg/l		20.0		93	58.8-137		
Chloroform	18.1		µg/l		20.0		91	70-130		
Chloromethane	19.3		µg/l		20.0		97	70-130		
2-Chlorotoluene	21.0		µg/l		20.0		105	70-130		
4-Chlorotoluene	21.1		µg/l		20.0		106	70-130		
1,2-Dibromo-3-chloropropane	17.0		µg/l		20.0		85	70-130		
Dibromochloromethane	16.9		µg/l		20.0		85	70-150		
1,2-Dibromoethane (EDB)	19.5		µg/l		20.0		98	70-130		
Dibromomethane	18.8		µg/l		20.0		94	70-130		
1,2-Dichlorobenzene	20.4		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,4-Dichlorobenzene	19.7		µg/l		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	20.4		µg/l		20.0		102	40.4-181		
1,1-Dichloroethane	19.2		µg/l		20.0		96	70-130		
1,2-Dichloroethane	18.7		µg/l		20.0		93	70-130		
1,1-Dichloroethene	19.5		µg/l		20.0		98	70-130		
cis-1,2-Dichloroethene	20.5		µg/l		20.0		102	70-130		
trans-1,2-Dichloroethene	18.2		µg/l		20.0		91	70-130		
1,2-Dichloropropane	19.4		µg/l		20.0		97	70-130		
1,3-Dichloropropane	19.3		µg/l		20.0		97	70-130		
2,2-Dichloropropane	23.0		µg/l		20.0		115	70-130		
1,1-Dichloropropene	20.1		µg/l		20.0		100	70-130		
cis-1,3-Dichloropropene	17.7		µg/l		20.0		89	70-130		
trans-1,3-Dichloropropene	17.2		µg/l		20.0		86	70-130		
Ethylbenzene	20.6		µg/l		20.0		103	70-130		
Hexachlorobutadiene	19.7		µg/l		20.0		99	65.3-143		
2-Hexanone (MBK)	16.2		µg/l		20.0		81	70-130		
Isopropylbenzene	19.0		µg/l		20.0		95	70-130		
4-Isopropyltoluene	22.4		µg/l		20.0		112	70-130		
Methyl tert-butyl ether	18.2		µg/l		20.0		91	70-130		
4-Methyl-2-pentanone (MIBK)	16.4		µg/l		20.0		82	43.7-137		
Methylene chloride	19.2		µg/l		20.0		96	70-130		
Naphthalene	19.2		µg/l		20.0		96	70-130		
n-Propylbenzene	20.9		µg/l		20.0		105	70-130		
Styrene	19.5		µg/l		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	20.2		µg/l		20.0		101	70-130		
1,1,2,2-Tetrachloroethane	19.1		µg/l		20.0		95	70-130		
Tetrachloroethene	20.2		µg/l		20.0		101	70-130		
Toluene	19.2		µg/l		20.0		96	70-130		
1,2,3-Trichlorobenzene	21.1		µg/l		20.0		106	70-130		
1,2,4-Trichlorobenzene	20.2		µg/l		20.0		101	70-130		
1,3,5-Trichlorobenzene	19.4		µg/l		20.0		97	70-130		
1,1,1-Trichloroethane	19.6		µg/l		20.0		98	70-130		
1,1,2-Trichloroethane	19.2		µg/l		20.0		96	70-130		
Trichloroethene	19.5		µg/l		20.0		98	70-130		
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0		97	65.3-144		
1,2,3-Trichloropropane	20.5		µg/l		20.0		102	70-130		
1,2,4-Trimethylbenzene	19.5		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.4		µg/l		20.0		97	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
<u>LCS (8081769-BS1)</u>										
Prepared & Analyzed: 22-Aug-08										
Vinyl chloride	23.3		µg/l		20.0		116	70-130		
m,p-Xylene	42.7		µg/l		40.0		107	70-130		
o-Xylene	21.3		µg/l		20.0		107	70-130		
Tetrahydrofuran	17.0		µg/l		20.0		85	70-130		
Ethyl ether	18.3		µg/l		20.0		92	70-132		
Tert-amyl methyl ether	16.9		µg/l		20.0		84	70-130		
Ethyl tert-butyl ether	20.0		µg/l		20.0		100	70-130		
Di-isopropyl ether	18.4		µg/l		20.0		92	70-130		
Tert-Butanol / butyl alcohol	166		µg/l		200		83	70-130		
1,4-Dioxane	163		µg/l		200		81	43.1-144		
trans-1,4-Dichloro-2-butene	18.0		µg/l		20.0		90	70-130		
Ethanol	357		µg/l		400		89	70-130		
Surrogate: 4-Bromofluorobenzene	49.9		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	50.1		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.1		µg/l		50.0		94	70-130		
Surrogate: Dibromofluoromethane	48.4		µg/l		50.0		97	70-130		
<u>LCS Dup (8081769-BSD1)</u>										
Prepared & Analyzed: 22-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.9		µg/l		20.0		125	70-130	11	25
Acetone	14.1		µg/l		20.0		70	5.22-177	34	50
Acrylonitrile	19.7		µg/l		20.0		99	70-130	14	25
Benzene	19.4		µg/l		20.0		97	70-130	7	25
Bromobenzene	21.0		µg/l		20.0		105	70-130	5	25
Bromochloromethane	22.7		µg/l		20.0		113	70-130	15	25
Bromodichloromethane	20.8		µg/l		20.0		104	70-130	3	25
Bromoform	18.6		µg/l		20.0		93	70-130	8	25
Bromomethane	19.6		µg/l		20.0		98	20.3-173	1	50
2-Butanone (MEK)	22.4		µg/l		20.0		112	40.1-155	13	50
n-Butylbenzene	21.2		µg/l		20.0		106	70-130	5	25
sec-Butylbenzene	20.5		µg/l		20.0		102	70-130	7	25
tert-Butylbenzene	19.9		µg/l		20.0		100	70-130	5	25
Carbon disulfide	24.0	QR2	µg/l		20.0		120	70-130	28	25
Carbon tetrachloride	22.6		µg/l		20.0		113	70-130	8	25
Chlorobenzene	20.5		µg/l		20.0		103	70-130	4	25
Chloroethane	20.9		µg/l		20.0		104	58.8-137	12	50
Chloroform	21.1		µg/l		20.0		105	70-130	15	25
Chloromethane	22.6		µg/l		20.0		113	70-130	16	25
2-Chlorotoluene	22.4		µg/l		20.0		112	70-130	6	25
4-Chlorotoluene	22.4		µg/l		20.0		112	70-130	6	25
1,2-Dibromo-3-chloropropane	19.6		µg/l		20.0		98	70-130	14	25
Dibromochloromethane	18.1		µg/l		20.0		91	70-150	7	50
1,2-Dibromoethane (EDB)	21.1		µg/l		20.0		106	70-130	8	25
Dibromomethane	20.2		µg/l		20.0		101	70-130	7	25
1,2-Dichlorobenzene	21.2		µg/l		20.0		106	70-130	4	25
1,3-Dichlorobenzene	21.9		µg/l		20.0		110	70-130	5	25
1,4-Dichlorobenzene	20.5		µg/l		20.0		103	70-130	4	25
Dichlorodifluoromethane (Freon12)	24.0		µg/l		20.0		120	40.4-181	16	50
1,1-Dichloroethane	20.6		µg/l		20.0		103	70-130	7	25
1,2-Dichloroethane	22.8		µg/l		20.0		114	70-130	20	25
1,1-Dichloroethene	21.4		µg/l		20.0		107	70-130	9	25

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
<u>LCS Dup (8081769-BSD1)</u>										
Prepared & Analyzed: 22-Aug-08										
cis-1,2-Dichloroethene	21.8		µg/l		20.0		109	70-130	6	25
trans-1,2-Dichloroethene	19.5		µg/l		20.0		98	70-130	7	25
1,2-Dichloropropane	20.4		µg/l		20.0		102	70-130	5	25
1,3-Dichloropropane	20.4		µg/l		20.0		102	70-130	5	25
2,2-Dichloropropane	30.2	QC1	µg/l		20.0		151	70-130	27	25
1,1-Dichloropropene	22.2		µg/l		20.0		111	70-130	10	25
cis-1,3-Dichloropropene	18.3		µg/l		20.0		91	70-130	3	25
trans-1,3-Dichloropropene	18.1		µg/l		20.0		91	70-130	5	25
Ethylbenzene	21.9		µg/l		20.0		110	70-130	6	25
Hexachlorobutadiene	18.7		µg/l		20.0		94	65.3-143	5	50
2-Hexanone (MBK)	20.2		µg/l		20.0		101	70-130	22	25
Isopropylbenzene	20.1		µg/l		20.0		101	70-130	6	25
4-Isopropyltoluene	23.8		µg/l		20.0		119	70-130	6	25
Methyl tert-butyl ether	20.3		µg/l		20.0		102	70-130	11	25
4-Methyl-2-pentanone (MIBK)	17.8		µg/l		20.0		89	43.7-137	8	50
Methylene chloride	20.6		µg/l		20.0		103	70-130	7	25
Naphthalene	20.5		µg/l		20.0		103	70-130	7	25
n-Propylbenzene	22.3		µg/l		20.0		112	70-130	7	25
Styrene	20.4		µg/l		20.0		102	70-130	5	25
1,1,1,2-Tetrachloroethane	21.0		µg/l		20.0		105	70-130	4	25
1,1,2,2-Tetrachloroethane	21.9		µg/l		20.0		110	70-130	14	25
Tetrachloroethene	21.5		µg/l		20.0		107	70-130	6	25
Toluene	20.5		µg/l		20.0		102	70-130	6	25
1,2,3-Trichlorobenzene	21.1		µg/l		20.0		106	70-130	0.1	25
1,2,4-Trichlorobenzene	20.5		µg/l		20.0		103	70-130	1	25
1,3,5-Trichlorobenzene	19.6		µg/l		20.0		98	70-130	2	25
1,1,1-Trichloroethane	25.3	QR2	µg/l		20.0		126	70-130	26	25
1,1,2-Trichloroethane	20.3		µg/l		20.0		102	70-130	5	25
Trichloroethene	20.8		µg/l		20.0		104	70-130	6	25
Trichlorofluoromethane (Freon 11)	21.6		µg/l		20.0		108	65.3-144	11	50
1,2,3-Trichloropropane	24.0		µg/l		20.0		120	70-130	16	25
1,2,4-Trimethylbenzene	20.7		µg/l		20.0		104	70-130	6	25
1,3,5-Trimethylbenzene	20.5		µg/l		20.0		102	70-130	6	25
Vinyl chloride	25.2		µg/l		20.0		126	70-130	8	25
m,p-Xylene	45.6		µg/l		40.0		114	70-130	6	25
o-Xylene	23.0		µg/l		20.0		115	70-130	8	25
Tetrahydrofuran	21.2		µg/l		20.0		106	70-130	22	25
Ethyl ether	19.8		µg/l		20.0		99	70-132	8	50
Tert-amyl methyl ether	18.4		µg/l		20.0		92	70-130	9	25
Ethyl tert-butyl ether	23.1		µg/l		20.0		116	70-130	14	25
Di-isopropyl ether	19.3		µg/l		20.0		97	70-130	5	25
Tert-Butanol / butyl alcohol	220	QR2	µg/l		200		110	70-130	28	25
1,4-Dioxane	182		µg/l		200		91	43.1-144	11	25
trans-1,4-Dichloro-2-butene	21.1		µg/l		20.0		105	70-130	16	25
Ethanol	454		µg/l		400		113	70-130	24	30
Surrogate: 4-Bromofluorobenzene	51.1		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	50.6		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.0		µg/l		50.0		112	70-130		
Surrogate: Dibromofluoromethane	54.4		µg/l		50.0		109	70-130		
<u>Matrix Spike (8081769-MS1)</u> Source: SA83447-03										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081769 - SW846 5030 Water MS										
Prepared & Analyzed: 22-Aug-08										
Benzene	21.6		µg/l		20.0	BRL	108	70-130		
Chlorobenzene	22.3		µg/l		20.0	BRL	112	70-130		
1,1-Dichloroethene	24.7		µg/l		20.0	BRL	124	70-130		
Toluene	23.4		µg/l		20.0	0.6	114	70-130		
Trichloroethene	23.6		µg/l		20.0	BRL	118	70-130		
Surrogate: 4-Bromofluorobenzene	50.3		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.4		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	49.8		µg/l		50.0		100	70-130		
Matrix Spike Dup (8081769-MSD1) Source: SA83447-03 Z-2										
Prepared & Analyzed: 22-Aug-08										
Benzene	24.6		µg/l		20.0	BRL	123	70-130	13	30
Chlorobenzene	25.2		µg/l		20.0	BRL	126	70-130	12	30
1,1-Dichloroethene	28.4	QM7	µg/l		20.0	BRL	142	70-130	14	30
Toluene	26.3		µg/l		20.0	0.6	129	70-130	12	30
Trichloroethene	26.9	QM7	µg/l		20.0	BRL	134	70-130	13	30
Surrogate: 4-Bromofluorobenzene	49.8		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	50.5		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.4		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	51.0		µg/l		50.0		102	70-130		
Batch 8081859 - SW846 5035A Soil (low level)										
Blank (8081859-BLK1)										
Prepared & Analyzed: 25-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081859 - SW846 5035A Soil (low level)										
<u>Blank (8081859-BLK1)</u>										
Prepared & Analyzed: 25-Aug-08										
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2000						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081859 - SW846 5035A Soil (low level)										
<u>Blank (8081859-BLK1)</u>										
Prepared & Analyzed: 25-Aug-08										
Surrogate: 4-Bromofluorobenzene	49.4		µg/kg wet		50.0		99	70-130		
Surrogate: Toluene-d8	50.0		µg/kg wet		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	57.5		µg/kg wet		50.0		115	70-130		
Surrogate: Dibromofluoromethane	50.1		µg/kg wet		50.0		100	70-130		
<u>LCS (8081859-BS1)</u>										
Prepared & Analyzed: 25-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.4		µg/kg wet		20.0		102	70-130		
Acetone	18.3		µg/kg wet		20.0		91	15.9-162		
Acrylonitrile	17.9		µg/kg wet		20.0		90	70-130		
Benzene	17.9		µg/kg wet		20.0		90	70-130		
Bromobenzene	18.8		µg/kg wet		20.0		94	70-130		
Bromochloromethane	19.6		µg/kg wet		20.0		98	70-130		
Bromodichloromethane	17.0		µg/kg wet		20.0		85	70-130		
Bromoform	17.6		µg/kg wet		20.0		88	70-130		
Bromomethane	16.0		µg/kg wet		20.0		80	40.8-154		
2-Butanone (MEK)	14.6		µg/kg wet		20.0		73	27.2-154		
n-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130		
sec-Butylbenzene	18.9		µg/kg wet		20.0		95	70-130		
tert-Butylbenzene	19.1		µg/kg wet		20.0		95	70-130		
Carbon disulfide	16.5		µg/kg wet		20.0		83	70-130		
Carbon tetrachloride	18.3		µg/kg wet		20.0		91	70-130		
Chlorobenzene	18.0		µg/kg wet		20.0		90	70-130		
Chloroethane	16.4		µg/kg wet		20.0		82	59.1-130		
Chloroform	17.7		µg/kg wet		20.0		88	70-130		
Chloromethane	16.4		µg/kg wet		20.0		82	70-130		
2-Chlorotoluene	19.0		µg/kg wet		20.0		95	70-130		
4-Chlorotoluene	18.2		µg/kg wet		20.0		91	70-130		
1,2-Dibromo-3-chloropropane	15.9		µg/kg wet		20.0		80	70-130		
Dibromochloromethane	16.8		µg/kg wet		20.0		84	67-133		
1,2-Dibromoethane (EDB)	18.2		µg/kg wet		20.0		91	70-130		
Dibromomethane	19.0		µg/kg wet		20.0		95	70-130		
1,2-Dichlorobenzene	19.4		µg/kg wet		20.0		97	70-130		
1,3-Dichlorobenzene	18.9		µg/kg wet		20.0		94	70-130		
1,4-Dichlorobenzene	18.5		µg/kg wet		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	18.3		µg/kg wet		20.0		91	33.9-180		
1,1-Dichloroethane	17.8		µg/kg wet		20.0		89	70-130		
1,2-Dichloroethane	18.4		µg/kg wet		20.0		92	70-130		
1,1-Dichloroethene	18.8		µg/kg wet		20.0		94	70-130		
cis-1,2-Dichloroethene	18.6		µg/kg wet		20.0		93	70-130		
trans-1,2-Dichloroethene	17.5		µg/kg wet		20.0		88	70-130		
1,2-Dichloropropane	18.5		µg/kg wet		20.0		92	70-130		
1,3-Dichloropropane	18.7		µg/kg wet		20.0		93	70-130		
2,2-Dichloropropane	17.0		µg/kg wet		20.0		85	70-130		
1,1-Dichloropropene	18.8		µg/kg wet		20.0		94	70-130		
cis-1,3-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130		
trans-1,3-Dichloropropene	15.7		µg/kg wet		20.0		78	70-130		
Ethylbenzene	18.5		µg/kg wet		20.0		92	70-130		
Hexachlorobutadiene	17.9		µg/kg wet		20.0		90	57-138		
2-Hexanone (MBK)	14.1		µg/kg wet		20.0		71	70-130		
Isopropylbenzene	17.6		µg/kg wet		20.0		88	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081859 - SW846 5035A Soil (low level)										
<u>LCS (8081859-BS1)</u>										
Prepared & Analyzed: 25-Aug-08										
4-Isopropyltoluene	19.9		µg/kg wet		20.0		99	70-130		
Methyl tert-butyl ether	17.3		µg/kg wet		20.0		87	70-130		
4-Methyl-2-pentanone (MIBK)	15.8		µg/kg wet		20.0		79	55.4-131		
Methylene chloride	17.8		µg/kg wet		20.0		89	70-130		
Naphthalene	15.2		µg/kg wet		20.0		76	70-130		
n-Propylbenzene	18.4		µg/kg wet		20.0		92	70-130		
Styrene	18.8		µg/kg wet		20.0		94	70-130		
1,1,1,2-Tetrachloroethane	16.6		µg/kg wet		20.0		83	70-130		
1,1,2,2-Tetrachloroethane	18.5		µg/kg wet		20.0		92	70-130		
Tetrachloroethene	17.5		µg/kg wet		20.0		88	70-130		
Toluene	17.3		µg/kg wet		20.0		87	70-130		
1,2,3-Trichlorobenzene	17.0		µg/kg wet		20.0		85	70-130		
1,2,4-Trichlorobenzene	16.3		µg/kg wet		20.0		81	70-130		
1,3,5-Trichlorobenzene	15.7		µg/kg wet		20.0		79	70-130		
1,1,1-Trichloroethane	18.6		µg/kg wet		20.0		93	70-130		
1,1,2-Trichloroethane	18.8		µg/kg wet		20.0		94	70-130		
Trichloroethene	18.2		µg/kg wet		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	19.6		µg/kg wet		20.0		98	52-154		
1,2,3-Trichloropropane	20.9		µg/kg wet		20.0		104	70-130		
1,2,4-Trimethylbenzene	19.2		µg/kg wet		20.0		96	70-130		
1,3,5-Trimethylbenzene	18.8		µg/kg wet		20.0		94	70-130		
Vinyl chloride	18.6		µg/kg wet		20.0		93	70-130		
m,p-Xylene	37.4		µg/kg wet		40.0		94	70-130		
o-Xylene	18.9		µg/kg wet		20.0		94	70-130		
Tetrahydrofuran	14.9		µg/kg wet		20.0		75	70-130		
Ethyl ether	15.4		µg/kg wet		20.0		77	65.7-131		
Tert-amyl methyl ether	16.4		µg/kg wet		20.0		82	70-130		
Ethyl tert-butyl ether	18.7		µg/kg wet		20.0		94	70-130		
Di-isopropyl ether	17.5		µg/kg wet		20.0		88	70-130		
Tert-Butanol / butyl alcohol	167		µg/kg wet		200		83	70-130		
1,4-Dioxane	161		µg/kg wet		200		80	50.9-140		
trans-1,4-Dichloro-2-butene	15.4		µg/kg wet		20.0		77	70-130		
Ethanol	307		µg/kg wet		400		77	70-130		
Surrogate: 4-Bromofluorobenzene	49.9		µg/kg wet		50.0		100	70-130		
Surrogate: Toluene-d8	48.6		µg/kg wet		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.0		µg/kg wet		50.0		96	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg wet		50.0		99	70-130		
<u>LCS Dup (8081859-BSD1)</u>										
Prepared & Analyzed: 25-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.8		µg/kg wet		20.0		104	70-130	2	25
Acetone	17.9		µg/kg wet		20.0		89	15.9-162	2	50
Acrylonitrile	18.5		µg/kg wet		20.0		93	70-130	3	25
Benzene	18.1		µg/kg wet		20.0		91	70-130	1	25
Bromobenzene	19.1		µg/kg wet		20.0		96	70-130	2	25
Bromochloromethane	19.8		µg/kg wet		20.0		99	70-130	1	25
Bromodichloromethane	17.2		µg/kg wet		20.0		86	70-130	1	25
Bromoform	17.9		µg/kg wet		20.0		90	70-130	2	25
Bromomethane	14.7		µg/kg wet		20.0		73	40.8-154	9	50
2-Butanone (MEK)	16.1		µg/kg wet		20.0		81	27.2-154	10	50
n-Butylbenzene	17.2		µg/kg wet		20.0		86	70-130	2	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081859 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081859-BSD1)</u>										
Prepared & Analyzed: 25-Aug-08										
sec-Butylbenzene	18.7		µg/kg wet		20.0		93	70-130	1	25
tert-Butylbenzene	18.8		µg/kg wet		20.0		94	70-130	1	25
Carbon disulfide	16.0		µg/kg wet		20.0		80	70-130	3	25
Carbon tetrachloride	17.9		µg/kg wet		20.0		90	70-130	2	25
Chlorobenzene	18.3		µg/kg wet		20.0		91	70-130	1	25
Chloroethane	15.4		µg/kg wet		20.0		77	59.1-130	6	50
Chloroform	17.6		µg/kg wet		20.0		88	70-130	0.4	25
Chloromethane	15.7		µg/kg wet		20.0		78	70-130	5	25
2-Chlorotoluene	18.6		µg/kg wet		20.0		93	70-130	2	25
4-Chlorotoluene	18.2		µg/kg wet		20.0		91	70-130	0.3	25
1,2-Dibromo-3-chloropropane	16.6		µg/kg wet		20.0		83	70-130	4	25
Dibromochloromethane	16.9		µg/kg wet		20.0		84	67-133	0.7	50
1,2-Dibromoethane (EDB)	17.9		µg/kg wet		20.0		89	70-130	2	25
Dibromomethane	18.4		µg/kg wet		20.0		92	70-130	3	25
1,2-Dichlorobenzene	19.3		µg/kg wet		20.0		96	70-130	0.4	25
1,3-Dichlorobenzene	18.0		µg/kg wet		20.0		90	70-130	5	25
1,4-Dichlorobenzene	18.8		µg/kg wet		20.0		94	70-130	2	25
Dichlorodifluoromethane (Freon12)	17.7		µg/kg wet		20.0		89	33.9-180	3	50
1,1-Dichloroethane	18.1		µg/kg wet		20.0		90	70-130	1	25
1,2-Dichloroethane	18.3		µg/kg wet		20.0		91	70-130	0.8	25
1,1-Dichloroethene	19.0		µg/kg wet		20.0		95	70-130	1	25
cis-1,2-Dichloroethene	18.8		µg/kg wet		20.0		94	70-130	0.7	25
trans-1,2-Dichloroethene	17.9		µg/kg wet		20.0		90	70-130	2	25
1,2-Dichloropropane	18.6		µg/kg wet		20.0		93	70-130	0.9	25
1,3-Dichloropropane	18.8		µg/kg wet		20.0		94	70-130	0.6	25
2,2-Dichloropropane	17.2		µg/kg wet		20.0		86	70-130	0.8	25
1,1-Dichloropropene	18.9		µg/kg wet		20.0		94	70-130	0.6	25
cis-1,3-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130	0.4	25
trans-1,3-Dichloropropene	15.5		µg/kg wet		20.0		77	70-130	1	25
Ethylbenzene	18.3		µg/kg wet		20.0		92	70-130	1	25
Hexachlorobutadiene	18.0		µg/kg wet		20.0		90	57-138	0.4	50
2-Hexanone (MBK)	14.6		µg/kg wet		20.0		73	70-130	3	25
Isopropylbenzene	17.2		µg/kg wet		20.0		86	70-130	2	25
4-Isopropyltoluene	20.0		µg/kg wet		20.0		100	70-130	0.5	25
Methyl tert-butyl ether	18.1		µg/kg wet		20.0		91	70-130	5	25
4-Methyl-2-pentanone (MIBK)	16.0		µg/kg wet		20.0		80	55.4-131	2	50
Methylene chloride	17.0		µg/kg wet		20.0		85	70-130	5	25
Naphthalene	15.4		µg/kg wet		20.0		77	70-130	1	25
n-Propylbenzene	18.1		µg/kg wet		20.0		91	70-130	2	25
Styrene	18.9		µg/kg wet		20.0		94	70-130	0.3	25
1,1,1,2-Tetrachloroethane	17.0		µg/kg wet		20.0		85	70-130	3	25
1,1,2,2-Tetrachloroethane	18.6		µg/kg wet		20.0		93	70-130	0.4	25
Tetrachloroethene	17.4		µg/kg wet		20.0		87	70-130	1	25
Toluene	17.3		µg/kg wet		20.0		87	70-130	0.2	25
1,2,3-Trichlorobenzene	16.8		µg/kg wet		20.0		84	70-130	1	25
1,2,4-Trichlorobenzene	16.4		µg/kg wet		20.0		82	70-130	0.6	25
1,3,5-Trichlorobenzene	15.7		µg/kg wet		20.0		78	70-130	0.5	25
1,1,1-Trichloroethane	18.9		µg/kg wet		20.0		94	70-130	1	25
1,1,2-Trichloroethane	18.5		µg/kg wet		20.0		93	70-130	1	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081859 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081859-BSD1)</u>										
Prepared & Analyzed: 25-Aug-08										
Trichloroethene	18.6		µg/kg wet		20.0		93	70-130	2	25
Trichlorofluoromethane (Freon 11)	19.0		µg/kg wet		20.0		95	52-154	3	50
1,2,3-Trichloropropane	20.2		µg/kg wet		20.0		101	70-130	3	25
1,2,4-Trimethylbenzene	18.7		µg/kg wet		20.0		93	70-130	3	25
1,3,5-Trimethylbenzene	18.2		µg/kg wet		20.0		91	70-130	3	25
Vinyl chloride	17.4		µg/kg wet		20.0		87	70-130	7	25
m,p-Xylene	37.0		µg/kg wet		40.0		93	70-130	1	25
o-Xylene	18.9		µg/kg wet		20.0		94	70-130	0.05	25
Tetrahydrofuran	14.2		µg/kg wet		20.0		71	70-130	5	25
Ethyl ether	17.1		µg/kg wet		20.0		86	65.7-131	11	50
Tert-amyl methyl ether	16.2		µg/kg wet		20.0		81	70-130	2	25
Ethyl tert-butyl ether	18.6		µg/kg wet		20.0		93	70-130	0.6	25
Di-isopropyl ether	17.4		µg/kg wet		20.0		87	70-130	0.3	25
Tert-Butanol / butyl alcohol	171		µg/kg wet		200		86	70-130	3	25
1,4-Dioxane	144		µg/kg wet		200		72	50.9-140	11	25
trans-1,4-Dichloro-2-butene	15.6		µg/kg wet		20.0		78	70-130	2	25
Ethanol	334		µg/kg wet		400		84	70-130	8	30
Surrogate: 4-Bromofluorobenzene	48.2		µg/kg wet		50.0		96	70-130		
Surrogate: Toluene-d8	47.9		µg/kg wet		50.0		96	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.6		µg/kg wet		50.0		97	70-130		
Surrogate: Dibromofluoromethane	48.3		µg/kg wet		50.0		97	70-130		
Batch 8081949 - VPH - EPA 5030B										
<u>Blank (8081949-BLK1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/kg wet	0.250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
Benzene	BRL		µg/kg wet	50.0						
Ethylbenzene	BRL		µg/kg wet	50.0						
Methyl tert-butyl ether	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	50.0						
Toluene	BRL		µg/kg wet	50.0						
m,p-Xylene	BRL		µg/kg wet	100						
o-Xylene	BRL		µg/kg wet	50.0						
2-Methylpentane	BRL		µg/kg wet	50.0						
n-Nonane	BRL		µg/kg wet	100						
n-Pentane	BRL		µg/kg wet	100						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	50.0						
2,2,4-Trimethylpentane	BRL		µg/kg wet	50.0						
n-Butylcyclohexane	BRL		µg/kg wet	50.0						
n-Decane	BRL		µg/kg wet	50.0						
Surrogate: 2,5-Dibromotoluene (FID)	53.5		µg/kg wet		50.0		107	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	51.5		µg/kg wet		50.0		103	70-130		
<u>LCS (8081949-BS1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	112		mg/kg wet		140		80	70-130		
C9-C12 Aliphatic Hydrocarbons	59.9		mg/kg wet		55.2		109	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081949 - VPH - EPA 5030B										
<u>LCS (8081949-BS1)</u>										
Prepared & Analyzed: 26-Aug-08										
C9-C10 Aromatic Hydrocarbons	30.8		mg/kg wet		40.0		77	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	233		mg/kg wet		280		83	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	90.7		mg/kg wet		84.8		107	70-130		
Benzene	18.7		µg/kg wet		20.0		93	70-130		
Ethylbenzene	20.3		µg/kg wet		20.0		101	70-130		
Methyl tert-butyl ether	22.3		µg/kg wet		20.0		112	70-130		
Naphthalene	16.4		µg/kg wet		20.0		82	70-130		
Toluene	19.2		µg/kg wet		20.0		96	70-130		
m,p-Xylene	40.2		µg/kg wet		40.0		100	70-130		
o-Xylene	20.1		µg/kg wet		20.0		100	70-130		
2-Methylpentane	19.4		µg/kg wet		20.0		97	70-130		
n-Nonane	21.3		µg/kg wet		20.0		107	70-130		
n-Pentane	15.8		µg/kg wet		20.0		79	70-130		
1,2,4-Trimethylbenzene	18.1		µg/kg wet		20.0		90	70-130		
2,2,4-Trimethylpentane	20.2		µg/kg wet		20.0		101	70-130		
n-Butylcyclohexane	21.5		µg/kg wet		20.0		107	70-130		
n-Decane	19.0		µg/kg wet		20.0		95	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	46.9		µg/kg wet		50.0		94	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	43.7		µg/kg wet		50.0		87	70-130		
<u>LCS Dup (8081949-BSD1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	115		mg/kg wet		140		82	70-130	2	25
C9-C12 Aliphatic Hydrocarbons	61.5		mg/kg wet		55.2		111	70-130	3	25
C9-C10 Aromatic Hydrocarbons	31.9		mg/kg wet		40.0		80	70-130	4	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	240		mg/kg wet		280		86	70-130	3	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	93.5		mg/kg wet		84.8		110	70-130	3	25
Benzene	20.3		µg/kg wet		20.0		102	70-130	8	25
Ethylbenzene	20.0		µg/kg wet		20.0		100	70-130	1	25
Methyl tert-butyl ether	24.2		µg/kg wet		20.0		121	70-130	8	25
Naphthalene	17.6		µg/kg wet		20.0		88	70-130	7	25
Toluene	19.5		µg/kg wet		20.0		98	70-130	2	25
m,p-Xylene	41.2		µg/kg wet		40.0		103	70-130	3	25
o-Xylene	20.7		µg/kg wet		20.0		104	70-130	3	25
2-Methylpentane	21.0		µg/kg wet		20.0		105	70-130	8	25
n-Nonane	21.5		µg/kg wet		20.0		107	70-130	0.7	25
n-Pentane	17.8		µg/kg wet		20.0		89	70-130	12	25
1,2,4-Trimethylbenzene	19.3		µg/kg wet		20.0		97	70-130	7	25
2,2,4-Trimethylpentane	19.7		µg/kg wet		20.0		99	70-130	2	25
n-Butylcyclohexane	22.7		µg/kg wet		20.0		113	70-130	5	25
n-Decane	20.6		µg/kg wet		20.0		103	70-130	8	25
Surrogate: 2,5-Dibromotoluene (FID)	51.3		µg/kg wet		50.0		103	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	50.0		µg/kg wet		50.0		100	70-130		
<u>Duplicate (8081949-DUP1)</u> Source: SA83399-01										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	1.20	J	mg/kg dry	1.21		1.14			5	50
C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.404		0.153				50
C9-C10 Aromatic Hydrocarbons	0.311	J	mg/kg dry	0.404		0.234			28	50
Unadjusted C5-C8 Aliphatic Hydrocarbons	1.20	J	mg/kg dry	1.21		1.14			5	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	0.389	J	mg/kg dry	0.404		0.387			0.5	50

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081949 - VPH - EPA 5030B										
<u>Duplicate (8081949-DUP1)</u> Source: SA83399-01										
Prepared & Analyzed: 26-Aug-08										
Benzene	BRL		µg/kg dry	80.8		BRL				50
Ethylbenzene	BRL		µg/kg dry	80.8		BRL				50
Methyl tert-butyl ether	BRL		µg/kg dry	80.8		BRL				50
Naphthalene	BRL		µg/kg dry	80.8		BRL				50
Toluene	BRL		µg/kg dry	80.8		BRL				50
m,p-Xylene	BRL		µg/kg dry	162		BRL				50
o-Xylene	BRL		µg/kg dry	80.8		BRL				50
Surrogate: 2,5-Dibromotoluene (FID)	52.3		µg/kg dry		50.0		105	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	49.7		µg/kg dry		50.0		99	70-130		
<u>Matrix Spike (8081949-MS1)</u> Source: SA83399-01										
Prepared & Analyzed: 26-Aug-08										
Benzene	18.1		µg/kg dry		20.0	BRL	91	70-130		
Ethylbenzene	17.3		µg/kg dry		20.0	BRL	87	70-130		
Methyl tert-butyl ether	21.3		µg/kg dry		20.0	BRL	106	70-130		
Naphthalene	15.6		µg/kg dry		20.0	BRL	78	70-130		
Toluene	17.4		µg/kg dry		20.0	BRL	87	70-130		
m,p-Xylene	36.1		µg/kg dry		40.0	BRL	90	70-130		
o-Xylene	17.2		µg/kg dry		20.0	BRL	86	70-130		
2-Methylpentane	19.2		µg/kg dry		20.0	BRL	96	70-130		
n-Nonane	20.1		µg/kg dry		20.0	BRL	100	70-130		
n-Pentane	14.4		µg/kg dry		20.0	BRL	72	70-130		
1,2,4-Trimethylbenzene	14.5		µg/kg dry		20.0	BRL	72	70-130		
2,2,4-Trimethylpentane	18.1		µg/kg dry		20.0	BRL	91	70-130		
n-Butylcyclohexane	20.1		µg/kg dry		20.0	BRL	100	70-130		
n-Decane	20.4		µg/kg dry		20.0	BRL	102	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	54.4		µg/kg dry		50.0		109	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	52.6		µg/kg dry		50.0		105	70-130		
Batch 8081951 - VPH - EPA 5030B										
<u>Blank (8081951-BLK1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
Benzene	BRL		µg/l	5.0						
Ethylbenzene	BRL		µg/l	5.0						
Methyl tert-butyl ether	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
m,p-Xylene	BRL		µg/l	10.0						
o-Xylene	BRL		µg/l	5.0						
2-Methylpentane	BRL		µg/l	5.0						
n-Nonane	BRL		µg/l	10.0						
n-Pentane	BRL		µg/l	10.0						
1,2,4-Trimethylbenzene	BRL		µg/l	5.0						
2,2,4-Trimethylpentane	BRL		µg/l	5.0						
n-Butylcyclohexane	BRL		µg/l	5.0						
n-Decane	BRL		µg/l	5.0						

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081951 - VPH - EPA 5030B										
<u>Blank (8081951-BLK1)</u>										
Prepared & Analyzed: 26-Aug-08										
Surrogate: 2,5-Dibromotoluene (FID)	57.5		µg/l		50.0		115	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	53.9		µg/l		50.0		108	70-130		
<u>LCS (8081951-BS1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	154		mg/l		140		110	70-130		
C9-C12 Aliphatic Hydrocarbons	60.9		mg/l		55.2		110	70-130		
C9-C10 Aromatic Hydrocarbons	39.1		mg/l		40.0		98	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	294		mg/l		280		105	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	100		mg/l		84.8		118	70-130		
Benzene	20.3		µg/l		20.0		102	70-130		
Ethylbenzene	20.4		µg/l		20.0		102	70-130		
Methyl tert-butyl ether	17.6		µg/l		20.0		88	70-130		
Naphthalene	17.5		µg/l		20.0		88	70-130		
Toluene	20.8		µg/l		20.0		104	70-130		
m,p-Xylene	40.3		µg/l		40.0		101	70-130		
o-Xylene	20.4		µg/l		20.0		102	70-130		
2-Methylpentane	21.3		µg/l		20.0		106	70-130		
n-Nonane	22.3		µg/l		20.0		111	70-130		
n-Pentane	21.3		µg/l		20.0		106	70-130		
1,2,4-Trimethylbenzene	20.0		µg/l		20.0		100	70-130		
2,2,4-Trimethylpentane	21.5		µg/l		20.0		108	70-130		
n-Butylcyclohexane	23.7		µg/l		20.0		119	70-130		
n-Decane	22.9		µg/l		20.0		114	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	48.2		µg/l		50.0		96	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	42.6		µg/l		50.0		85	70-130		
<u>LCS Dup (8081951-BSD1)</u>										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	151		mg/l		140		108	70-130	2	25
C9-C12 Aliphatic Hydrocarbons	64.0		mg/l		55.2		116	70-130	5	25
C9-C10 Aromatic Hydrocarbons	36.2		mg/l		40.0		90	70-130	8	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	287		mg/l		280		102	70-130	2	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	100		mg/l		84.8		118	70-130	0.1	25
Benzene	19.9		µg/l		20.0		100	70-130	2	25
Ethylbenzene	19.5		µg/l		20.0		98	70-130	4	25
Methyl tert-butyl ether	17.8		µg/l		20.0		89	70-130	1	25
Naphthalene	17.5		µg/l		20.0		88	70-130	0.01	25
Toluene	20.3		µg/l		20.0		101	70-130	3	25
m,p-Xylene	38.6		µg/l		40.0		97	70-130	4	25
o-Xylene	19.6		µg/l		20.0		98	70-130	4	25
2-Methylpentane	19.7		µg/l		20.0		98	70-130	8	25
n-Nonane	18.2		µg/l		20.0		91	70-130	20	25
n-Pentane	19.0		µg/l		20.0		95	70-130	11	25
1,2,4-Trimethylbenzene	19.0		µg/l		20.0		95	70-130	5	25
2,2,4-Trimethylpentane	19.2		µg/l		20.0		96	70-130	11	25
n-Butylcyclohexane	18.0	QR2	µg/l		20.0		90	70-130	27	25
n-Decane	15.5	QR2	µg/l		20.0		78	70-130	38	25
Surrogate: 2,5-Dibromotoluene (FID)	45.8		µg/l		50.0		92	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	41.3		µg/l		50.0		83	70-130		
<u>Duplicate (8081951-DUP1)</u>										
Source: SA83608-01										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8081951 - VPH - EPA 5030B										
Prepared & Analyzed: 26-Aug-08										
C5-C8 Aliphatic Hydrocarbons	0.0397	J	mg/l	0.0750		0.0413			4	50
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
Unadjusted C5-C8 Aliphatic Hydrocarbons	0.0499	J	mg/l	0.0750		0.0524			5	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
Benzene	BRL		µg/l	5.0		BRL				50
Ethylbenzene	BRL		µg/l	5.0		BRL				50
Methyl tert-butyl ether	BRL		µg/l	5.0		BRL				50
Naphthalene	BRL		µg/l	5.0		BRL				50
Toluene	10.2		µg/l	5.0		11.1			8	50
m,p-Xylene	BRL		µg/l	10.0		BRL				50
o-Xylene	BRL		µg/l	5.0		BRL				50
Surrogate: 2,5-Dibromotoluene (FID)	45.1		µg/l		50.0		90	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	42.5		µg/l		50.0		85	70-130		
Matrix Spike (8081951-MS1) Source: SA83608-01										
Prepared & Analyzed: 26-Aug-08										
Benzene	19.2		µg/l		20.0	BRL	96	70-130		
Ethylbenzene	18.8		µg/l		20.0	BRL	94	70-130		
Methyl tert-butyl ether	17.9		µg/l		20.0	BRL	89	70-130		
Naphthalene	17.3		µg/l		20.0	BRL	86	70-130		
Toluene	28.5		µg/l		20.0	11.1	87	70-130		
m,p-Xylene	36.7		µg/l		40.0	BRL	92	70-130		
o-Xylene	18.6		µg/l		20.0	BRL	93	70-130		
2-Methylpentane	18.9		µg/l		20.0	BRL	95	70-130		
n-Nonane	17.0		µg/l		20.0	BRL	85	70-130		
n-Pentane	18.4		µg/l		20.0	BRL	92	70-130		
1,2,4-Trimethylbenzene	17.8		µg/l		20.0	BRL	89	70-130		
2,2,4-Trimethylpentane	19.4		µg/l		20.0	BRL	97	70-130		
n-Butylcyclohexane	17.9		µg/l		20.0	BRL	89	70-130		
n-Decane	14.3		µg/l		20.0	BRL	71	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	45.4		µg/l		50.0		91	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	39.9		µg/l		50.0		80	70-130		
Batch 8081966 - SW846 5035A Soil (low level)										
Blank (8081966-BLK1)										
Prepared & Analyzed: 26-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081966 - SW846 5035A Soil (low level)										
<u>Blank (8081966-BLK1)</u>										
Prepared & Analyzed: 26-Aug-08										
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081966 - SW846 5035A Soil (low level)										
<u>Blank (8081966-BLK1)</u>										
Prepared & Analyzed: 26-Aug-08										
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	49.4		µg/kg wet		50.0		99	70-130		
Surrogate: Toluene-d8	50.3		µg/kg wet		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	55.6		µg/kg wet		50.0		111	70-130		
Surrogate: Dibromofluoromethane	49.8		µg/kg wet		50.0		100	70-130		
<u>LCS (8081966-BS1)</u>										
Prepared & Analyzed: 26-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.9		µg/kg wet		20.0		115	70-130		
Acetone	16.6		µg/kg wet		20.0		83	15.9-162		
Acrylonitrile	17.9		µg/kg wet		20.0		89	70-130		
Benzene	19.3		µg/kg wet		20.0		96	70-130		
Bromobenzene	20.6		µg/kg wet		20.0		103	70-130		
Bromochloromethane	21.1		µg/kg wet		20.0		105	70-130		
Bromodichloromethane	18.0		µg/kg wet		20.0		90	70-130		
Bromoform	17.3		µg/kg wet		20.0		87	70-130		
Bromomethane	18.2		µg/kg wet		20.0		91	40.8-154		
2-Butanone (MEK)	14.4		µg/kg wet		20.0		72	27.2-154		
n-Butylbenzene	19.2		µg/kg wet		20.0		96	70-130		
sec-Butylbenzene	21.5		µg/kg wet		20.0		107	70-130		
tert-Butylbenzene	22.1		µg/kg wet		20.0		111	70-130		
Carbon disulfide	18.1		µg/kg wet		20.0		90	70-130		
Carbon tetrachloride	19.6		µg/kg wet		20.0		98	70-130		
Chlorobenzene	19.5		µg/kg wet		20.0		97	70-130		
Chloroethane	18.3		µg/kg wet		20.0		91	59.1-130		
Chloroform	18.5		µg/kg wet		20.0		93	70-130		
Chloromethane	19.9		µg/kg wet		20.0		99	70-130		
2-Chlorotoluene	20.9		µg/kg wet		20.0		105	70-130		
4-Chlorotoluene	20.7		µg/kg wet		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	17.0		µg/kg wet		20.0		85	70-130		
Dibromochloromethane	17.7		µg/kg wet		20.0		89	67-133		
1,2-Dibromoethane (EDB)	18.6		µg/kg wet		20.0		93	70-130		
Dibromomethane	19.6		µg/kg wet		20.0		98	70-130		
1,2-Dichlorobenzene	20.5		µg/kg wet		20.0		103	70-130		
1,3-Dichlorobenzene	20.9		µg/kg wet		20.0		104	70-130		
1,4-Dichlorobenzene	20.2		µg/kg wet		20.0		101	70-130		
Dichlorodifluoromethane (Freon12)	21.3		µg/kg wet		20.0		106	33.9-180		
1,1-Dichloroethane	19.6		µg/kg wet		20.0		98	70-130		
1,2-Dichloroethane	19.1		µg/kg wet		20.0		96	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081966 - SW846 5035A Soil (low level)										
<u>LCS (8081966-BS1)</u>										
Prepared & Analyzed: 26-Aug-08										
1,1-Dichloroethene	20.2		µg/kg wet		20.0		101	70-130		
cis-1,2-Dichloroethene	20.2		µg/kg wet		20.0		101	70-130		
trans-1,2-Dichloroethene	19.1		µg/kg wet		20.0		96	70-130		
1,2-Dichloropropane	19.7		µg/kg wet		20.0		98	70-130		
1,3-Dichloropropane	19.7		µg/kg wet		20.0		98	70-130		
2,2-Dichloropropane	20.0		µg/kg wet		20.0		100	70-130		
1,1-Dichloropropene	20.3		µg/kg wet		20.0		101	70-130		
cis-1,3-Dichloropropene	16.6		µg/kg wet		20.0		83	70-130		
trans-1,3-Dichloropropene	16.5		µg/kg wet		20.0		82	70-130		
Ethylbenzene	20.1		µg/kg wet		20.0		101	70-130		
Hexachlorobutadiene	20.5		µg/kg wet		20.0		102	57-138		
2-Hexanone (MBK)	15.1		µg/kg wet		20.0		76	70-130		
Isopropylbenzene	19.6		µg/kg wet		20.0		98	70-130		
4-Isopropyltoluene	22.0		µg/kg wet		20.0		110	70-130		
Methyl tert-butyl ether	17.2		µg/kg wet		20.0		86	70-130		
4-Methyl-2-pentanone (MIBK)	15.5		µg/kg wet		20.0		78	55.4-131		
Methylene chloride	19.6		µg/kg wet		20.0		98	70-130		
Naphthalene	16.0		µg/kg wet		20.0		80	70-130		
n-Propylbenzene	20.9		µg/kg wet		20.0		105	70-130		
Styrene	20.6		µg/kg wet		20.0		103	70-130		
1,1,1,2-Tetrachloroethane	17.7		µg/kg wet		20.0		89	70-130		
1,1,2,2-Tetrachloroethane	18.0		µg/kg wet		20.0		90	70-130		
Tetrachloroethene	20.4		µg/kg wet		20.0		102	70-130		
Toluene	19.2		µg/kg wet		20.0		96	70-130		
1,2,3-Trichlorobenzene	17.7		µg/kg wet		20.0		89	70-130		
1,2,4-Trichlorobenzene	17.9		µg/kg wet		20.0		89	70-130		
1,3,5-Trichlorobenzene	17.8		µg/kg wet		20.0		89	70-130		
1,1,1-Trichloroethane	20.0		µg/kg wet		20.0		100	70-130		
1,1,2-Trichloroethane	18.7		µg/kg wet		20.0		94	70-130		
Trichloroethene	20.2		µg/kg wet		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	21.5		µg/kg wet		20.0		108	52-154		
1,2,3-Trichloropropane	20.1		µg/kg wet		20.0		101	70-130		
1,2,4-Trimethylbenzene	21.2		µg/kg wet		20.0		106	70-130		
1,3,5-Trimethylbenzene	21.2		µg/kg wet		20.0		106	70-130		
Vinyl chloride	21.9		µg/kg wet		20.0		110	70-130		
m,p-Xylene	41.8		µg/kg wet		40.0		104	70-130		
o-Xylene	20.5		µg/kg wet		20.0		102	70-130		
Tetrahydrofuran	13.5	QC1	µg/kg wet		20.0		68	70-130		
Ethyl ether	16.0		µg/kg wet		20.0		80	65.7-131		
Tert-amyl methyl ether	15.1		µg/kg wet		20.0		76	70-130		
Ethyl tert-butyl ether	18.7		µg/kg wet		20.0		94	70-130		
Di-isopropyl ether	18.0		µg/kg wet		20.0		90	70-130		
Tert-Butanol / butyl alcohol	155		µg/kg wet		200		78	70-130		
1,4-Dioxane	190		µg/kg wet		200		95	50.9-140		
trans-1,4-Dichloro-2-butene	16.3		µg/kg wet		20.0		82	70-130		
Ethanol	358		µg/kg wet		400		90	70-130		
Surrogate: 4-Bromofluorobenzene	50.2		µg/kg wet		50.0		100	70-130		
Surrogate: Toluene-d8	49.4		µg/kg wet		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.8		µg/kg wet		50.0		96	70-130		
Surrogate: Dibromofluoromethane	49.0		µg/kg wet		50.0		98	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081966 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081966-BSD1)</u>										
Prepared & Analyzed: 26-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.7		µg/kg wet		20.0		119	70-130	3	25
Acetone	17.7		µg/kg wet		20.0		88	15.9-162	6	50
Acrylonitrile	18.6		µg/kg wet		20.0		93	70-130	4	25
Benzene	20.0		µg/kg wet		20.0		100	70-130	4	25
Bromobenzene	21.8		µg/kg wet		20.0		109	70-130	6	25
Bromochloromethane	21.2		µg/kg wet		20.0		106	70-130	0.4	25
Bromodichloromethane	18.4		µg/kg wet		20.0		92	70-130	2	25
Bromoform	18.0		µg/kg wet		20.0		90	70-130	4	25
Bromomethane	21.6		µg/kg wet		20.0		108	40.8-154	17	50
2-Butanone (MEK)	14.5		µg/kg wet		20.0		72	27.2-154	0.8	50
n-Butylbenzene	19.3		µg/kg wet		20.0		96	70-130	0.2	25
sec-Butylbenzene	23.8		µg/kg wet		20.0		119	70-130	10	25
tert-Butylbenzene	23.6		µg/kg wet		20.0		118	70-130	7	25
Carbon disulfide	19.0		µg/kg wet		20.0		95	70-130	5	25
Carbon tetrachloride	19.9		µg/kg wet		20.0		100	70-130	2	25
Chlorobenzene	19.5		µg/kg wet		20.0		98	70-130	0.1	25
Chloroethane	20.4		µg/kg wet		20.0		102	59.1-130	11	50
Chloroform	19.4		µg/kg wet		20.0		97	70-130	5	25
Chloromethane	22.6		µg/kg wet		20.0		113	70-130	13	25
2-Chlorotoluene	22.6		µg/kg wet		20.0		113	70-130	8	25
4-Chlorotoluene	22.4		µg/kg wet		20.0		112	70-130	8	25
1,2-Dibromo-3-chloropropane	17.8		µg/kg wet		20.0		89	70-130	4	25
Dibromochloromethane	17.8		µg/kg wet		20.0		89	67-133	0.1	50
1,2-Dibromoethane (EDB)	20.6		µg/kg wet		20.0		103	70-130	10	25
Dibromomethane	19.3		µg/kg wet		20.0		96	70-130	2	25
1,2-Dichlorobenzene	20.0		µg/kg wet		20.0		100	70-130	2	25
1,3-Dichlorobenzene	22.9		µg/kg wet		20.0		114	70-130	9	25
1,4-Dichlorobenzene	20.4		µg/kg wet		20.0		102	70-130	0.9	25
Dichlorodifluoromethane (Freon12)	25.0		µg/kg wet		20.0		125	33.9-180	16	50
1,1-Dichloroethane	20.1		µg/kg wet		20.0		101	70-130	3	25
1,2-Dichloroethane	19.3		µg/kg wet		20.0		97	70-130	1	25
1,1-Dichloroethene	21.9		µg/kg wet		20.0		110	70-130	8	25
cis-1,2-Dichloroethene	20.1		µg/kg wet		20.0		100	70-130	0.5	25
trans-1,2-Dichloroethene	19.5		µg/kg wet		20.0		98	70-130	2	25
1,2-Dichloropropane	20.4		µg/kg wet		20.0		102	70-130	4	25
1,3-Dichloropropane	20.1		µg/kg wet		20.0		101	70-130	2	25
2,2-Dichloropropane	19.4		µg/kg wet		20.0		97	70-130	3	25
1,1-Dichloropropene	20.6		µg/kg wet		20.0		103	70-130	2	25
cis-1,3-Dichloropropene	16.7		µg/kg wet		20.0		84	70-130	0.7	25
trans-1,3-Dichloropropene	16.9		µg/kg wet		20.0		84	70-130	3	25
Ethylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25
Hexachlorobutadiene	19.8		µg/kg wet		20.0		99	57-138	3	50
2-Hexanone (MBK)	15.5		µg/kg wet		20.0		77	70-130	2	25
Isopropylbenzene	20.8		µg/kg wet		20.0		104	70-130	6	25
4-Isopropyltoluene	22.0		µg/kg wet		20.0		110	70-130	0	25
Methyl tert-butyl ether	17.3		µg/kg wet		20.0		87	70-130	0.6	25
4-Methyl-2-pentanone (MIBK)	14.3		µg/kg wet		20.0		71	55.4-131	8	50
Methylene chloride	21.1		µg/kg wet		20.0		106	70-130	7	25
Naphthalene	15.6		µg/kg wet		20.0		78	70-130	3	25
n-Propylbenzene	22.2		µg/kg wet		20.0		111	70-130	6	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081966 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081966-BSD1)</u>										
Prepared & Analyzed: 26-Aug-08										
Styrene	21.4		µg/kg wet		20.0		107	70-130	4	25
1,1,1,2-Tetrachloroethane	17.8		µg/kg wet		20.0		89	70-130	0.5	25
1,1,2,2-Tetrachloroethane	20.1		µg/kg wet		20.0		101	70-130	11	25
Tetrachloroethene	21.3		µg/kg wet		20.0		106	70-130	4	25
Toluene	19.6		µg/kg wet		20.0		98	70-130	2	25
1,2,3-Trichlorobenzene	17.5		µg/kg wet		20.0		88	70-130	1	25
1,2,4-Trichlorobenzene	17.7		µg/kg wet		20.0		89	70-130	0.7	25
1,3,5-Trichlorobenzene	17.6		µg/kg wet		20.0		88	70-130	1	25
1,1,1-Trichloroethane	20.4		µg/kg wet		20.0		102	70-130	2	25
1,1,2-Trichloroethane	19.6		µg/kg wet		20.0		98	70-130	5	25
Trichloroethene	20.4		µg/kg wet		20.0		102	70-130	1	25
Trichlorofluoromethane (Freon 11)	22.7		µg/kg wet		20.0		114	52-154	5	50
1,2,3-Trichloropropane	21.3		µg/kg wet		20.0		106	70-130	6	25
1,2,4-Trimethylbenzene	23.0		µg/kg wet		20.0		115	70-130	8	25
1,3,5-Trimethylbenzene	23.0		µg/kg wet		20.0		115	70-130	8	25
Vinyl chloride	25.0		µg/kg wet		20.0		125	70-130	13	25
m,p-Xylene	42.6		µg/kg wet		40.0		106	70-130	2	25
o-Xylene	21.3		µg/kg wet		20.0		106	70-130	4	25
Tetrahydrofuran	15.3		µg/kg wet		20.0		76	70-130	12	25
Ethyl ether	16.6		µg/kg wet		20.0		83	65.7-131	4	50
Tert-amyl methyl ether	15.1		µg/kg wet		20.0		76	70-130	0.07	25
Ethyl tert-butyl ether	19.4		µg/kg wet		20.0		97	70-130	4	25
Di-isopropyl ether	18.2		µg/kg wet		20.0		91	70-130	1	25
Tert-Butanol / butyl alcohol	172		µg/kg wet		200		86	70-130	10	25
1,4-Dioxane	177		µg/kg wet		200		89	50.9-140	7	25
trans-1,4-Dichloro-2-butene	17.5		µg/kg wet		20.0		88	70-130	7	25
Ethanol	392		µg/kg wet		400		98	70-130	9	30
Surrogate: 4-Bromofluorobenzene	52.7		µg/kg wet		50.0		105	70-130		
Surrogate: Toluene-d8	50.9		µg/kg wet		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.0		µg/kg wet		50.0		94	70-130		
Surrogate: Dibromofluoromethane	50.8		µg/kg wet		50.0		102	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081625 - SW846 3510C										
<u>Blank (8081625-BLK1)</u>										
Prepared: 21-Aug-08 Analyzed: 23-Aug-08										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Atrazine	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081625 - SW846 3510C										
<u>Blank (8081625-BLK1)</u>										
Prepared: 21-Aug-08 Analyzed: 23-Aug-08										
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	20.0						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	20.0						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	20.0						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1-Methylnaphthalene	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Pentachloronitrobenzene	BRL		µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	37.6		µg/l		50.0		75	30-130		
Surrogate: 2-Fluorophenol	44.5		µg/l		50.0		89	15-110		
Surrogate: Nitrobenzene-d5	33.9		µg/l		50.0		68	30-130		
Surrogate: Phenol-d5	42.5		µg/l		50.0		85	15-110		
Surrogate: Terphenyl-d14	41.3		µg/l		50.0		83	30-130		
Surrogate: 2,4,6-Tribromophenol	36.8		µg/l		50.0		74	15-110		
<u>LCS (8081625-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 23-Aug-08										
Acenaphthene	42.9		µg/l	5.00	50.0		86	40-130		
Acenaphthylene	42.9		µg/l	5.00	50.0		86	40-130		
Aniline	8.42	QC1	µg/l	5.00	50.0		17	40-130		
Anthracene	42.2		µg/l	5.00	50.0		84	40-130		
Atrazine	19.9		µg/l	5.00	50.0		40	40-130		
Azobenzene/Diphenyldiazine	40.1		µg/l	5.00	50.0		80	40-130		
Benzidine	BRL		µg/l	5.00	50.0			0-194		
Benzo (a) anthracene	43.3		µg/l	5.00	50.0		87	40-130		
Benzo (a) pyrene	53.4		µg/l	5.00	50.0		107	40-130		
Benzo (b) fluoranthene	61.1		µg/l	5.00	50.0		122	40-130		
Benzo (g,h,i) perylene	50.2		µg/l	5.00	50.0		100	40-130		
Benzo (k) fluoranthene	68.0	QC1	µg/l	5.00	50.0		136	40-130		
Benzoic acid	44.4		µg/l	5.00	50.0		89	42.5-130		
Benzyl alcohol	28.6		µg/l	5.00	50.0		57	40-130		
Bis(2-chloroethoxy)methane	39.1		µg/l	5.00	50.0		78	40-130		
Bis(2-chloroethyl)ether	52.7		µg/l	5.00	50.0		105	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081625 - SW846 3510C										
<u>LCS (8081625-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 23-Aug-08										
Bis(2-chloroisopropyl)ether	41.9		µg/l	5.00	50.0		84	40-130		
Bis(2-ethylhexyl)phthalate	48.9		µg/l	5.00	50.0		98	40-130		
4-Bromophenyl phenyl ether	42.2		µg/l	5.00	50.0		84	40-130		
Butyl benzyl phthalate	46.7		µg/l	5.00	50.0		93	40-130		
Carbazole	29.7		µg/l	5.00	50.0		59	40-130		
4-Chloro-3-methylphenol	37.9		µg/l	5.00	50.0		76	40-130		
4-Chloroaniline	6.61	QC1	µg/l	5.00	50.0		13	40-130		
2-Chloronaphthalene	40.3		µg/l	5.00	50.0		81	40-130		
2-Chlorophenol	38.3		µg/l	5.00	50.0		77	40-130		
4-Chlorophenyl phenyl ether	46.2		µg/l	5.00	50.0		92	40-130		
Chrysene	45.4		µg/l	5.00	50.0		91	40-130		
Dibenzo (a,h) anthracene	54.6		µg/l	5.00	50.0		109	40-130		
Dibenzofuran	44.1		µg/l	5.00	50.0		88	40-130		
1,2-Dichlorobenzene	35.0		µg/l	5.00	50.0		70	40-130		
1,3-Dichlorobenzene	37.1		µg/l	5.00	50.0		74	40-130		
1,4-Dichlorobenzene	37.1		µg/l	5.00	50.0		74	40-130		
3,3'-Dichlorobenzidine	BRL	QC1	µg/l	5.00	50.0			40-130		
2,4-Dichlorophenol	38.5		µg/l	5.00	50.0		77	40-130		
Diethyl phthalate	47.4		µg/l	5.00	50.0		95	40-130		
Dimethyl phthalate	49.8		µg/l	5.00	50.0		100	40-130		
2,4-Dimethylphenol	38.3		µg/l	5.00	50.0		77	40-130		
Di-n-butyl phthalate	45.2		µg/l	5.00	50.0		90	40-130		
4,6-Dinitro-2-methylphenol	36.7		µg/l	5.00	50.0		73	40-130		
2,4-Dinitrophenol	39.8		µg/l	5.00	50.0		80	40-130		
2,4-Dinitrotoluene	31.3		µg/l	5.00	50.0		63	40-130		
2,6-Dinitrotoluene	40.2		µg/l	5.00	50.0		80	40-130		
Di-n-octyl phthalate	69.0	QC1	µg/l	5.00	50.0		138	40-130		
Fluoranthene	43.1		µg/l	5.00	50.0		86	40-130		
Fluorene	47.6		µg/l	5.00	50.0		95	40-130		
Hexachlorobenzene	39.6		µg/l	5.00	50.0		79	40-130		
Hexachlorobutadiene	36.5		µg/l	5.00	50.0		73	40-130		
Hexachlorocyclopentadiene	36.4		µg/l	5.00	50.0		73	40-130		
Hexachloroethane	36.9		µg/l	5.00	50.0		74	40-130		
Indeno (1,2,3-cd) pyrene	50.3		µg/l	5.00	50.0		101	40-130		
Isophorone	37.9		µg/l	5.00	50.0		76	40-130		
2-Methylnaphthalene	41.3		µg/l	5.00	50.0		83	40-130		
2-Methylphenol	39.7		µg/l	5.00	50.0		79	40-130		
3 & 4-Methylphenol	43.2		µg/l	10.0	50.0		86	40-130		
Naphthalene	39.3		µg/l	5.00	50.0		79	40-130		
2-Nitroaniline	39.6		µg/l	5.00	50.0		79	40-130		
3-Nitroaniline	9.10	QC1	µg/l	5.00	50.0		18	40-130		
4-Nitroaniline	29.7		µg/l	20.0	50.0		59	40-130		
Nitrobenzene	37.8		µg/l	5.00	50.0		76	40-130		
2-Nitrophenol	36.2		µg/l	5.00	50.0		72	40-130		
4-Nitrophenol	30.8		µg/l	20.0	50.0		62	40-130		
N-Nitrosodimethylamine	41.2		µg/l	5.00	50.0		82	40-130		
N-Nitrosodi-n-propylamine	43.4		µg/l	5.00	50.0		87	40-130		
N-Nitrosodiphenylamine	28.8		µg/l	5.00	50.0		58	40-130		
Pentachlorophenol	44.1		µg/l	20.0	50.0		88	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081625 - SW846 3510C										
<u>LCS (8081625-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 23-Aug-08										
Phenanthrene	43.3		µg/l	5.00	50.0		87	40-130		
Phenol	39.4		µg/l	5.00	50.0		79	40-130		
Pyrene	45.6		µg/l	5.00	50.0		91	40-130		
Pyridine	35.3		µg/l	5.00	50.0		71	0-138		
1-Methylnaphthalene	41.3		µg/l	5.00	50.0		83	40-140		
1,2,4-Trichlorobenzene	35.6		µg/l	5.00	50.0		71	40-130		
2,4,5-Trichlorophenol	40.2		µg/l	5.00	50.0		80	40-130		
2,4,6-Trichlorophenol	46.4		µg/l	5.00	50.0		93	40-130		
Pentachloronitrobenzene	42.6		µg/l	5.00	50.0		85	40-140		
1,2,4,5-Tetrachlorobenzene	40.8		µg/l	5.00	50.0		82	40-140		
Surrogate: 2-Fluorobiphenyl	41.6		µg/l		50.0		83	30-130		
Surrogate: 2-Fluorophenol	39.4		µg/l		50.0		79	15-110		
Surrogate: Nitrobenzene-d5	37.6		µg/l		50.0		75	30-130		
Surrogate: Phenol-d5	39.0		µg/l		50.0		78	15-110		
Surrogate: Terphenyl-d14	42.3		µg/l		50.0		85	30-130		
Surrogate: 2,4,6-Tribromophenol	41.7		µg/l		50.0		83	15-110		
Batch 8081816 - SW846 3545A										
<u>Blank (8081816-BLK1)</u>										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Acenaphthene	BRL		µg/kg wet	330						
Acenaphthylene	BRL		µg/kg wet	330						
Aniline	BRL		µg/kg wet	330						
Anthracene	BRL		µg/kg wet	330						
Atrazine	BRL		µg/kg wet	330						
Azobenzene/Diphenyldiazine	BRL		µg/kg wet	330						
Benzidine	BRL		µg/kg wet	330						
Benzo (a) anthracene	BRL		µg/kg wet	330						
Benzo (a) pyrene	BRL		µg/kg wet	330						
Benzo (b) fluoranthene	BRL		µg/kg wet	330						
Benzo (g,h,i) perylene	BRL		µg/kg wet	330						
Benzo (k) fluoranthene	BRL		µg/kg wet	330						
Benzoic acid	BRL		µg/kg wet	330						
Benzyl alcohol	BRL		µg/kg wet	330						
Bis(2-chloroethoxy)methane	BRL		µg/kg wet	330						
Bis(2-chloroethyl)ether	BRL		µg/kg wet	330						
Bis(2-chloroisopropyl)ether	BRL		µg/kg wet	330						
Bis(2-ethylhexyl)phthalate	BRL		µg/kg wet	330						
4-Bromophenyl phenyl ether	BRL		µg/kg wet	330						
Butyl benzyl phthalate	BRL		µg/kg wet	330						
Carbazole	BRL		µg/kg wet	330						
4-Chloro-3-methylphenol	BRL		µg/kg wet	330						
4-Chloroaniline	BRL		µg/kg wet	330						
2-Chloronaphthalene	BRL		µg/kg wet	330						
2-Chlorophenol	BRL		µg/kg wet	330						
4-Chlorophenyl phenyl ether	BRL		µg/kg wet	330						
Chrysene	BRL		µg/kg wet	330						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	330						
Dibenzofuran	BRL		µg/kg wet	330						
1,2-Dichlorobenzene	BRL		µg/kg wet	330						
1,3-Dichlorobenzene	BRL		µg/kg wet	330						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>Blank (8081816-BLK1)</u>										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
1,4-Dichlorobenzene	BRL		µg/kg wet	330						
3,3'-Dichlorobenzidine	BRL		µg/kg wet	330						
2,4-Dichlorophenol	BRL		µg/kg wet	330						
Diethyl phthalate	BRL		µg/kg wet	330						
Dimethyl phthalate	BRL		µg/kg wet	330						
2,4-Dimethylphenol	BRL		µg/kg wet	330						
Di-n-butyl phthalate	BRL		µg/kg wet	330						
4,6-Dinitro-2-methylphenol	BRL		µg/kg wet	330						
2,4-Dinitrophenol	BRL		µg/kg wet	330						
2,4-Dinitrotoluene	BRL		µg/kg wet	330						
2,6-Dinitrotoluene	BRL		µg/kg wet	330						
Di-n-octyl phthalate	BRL		µg/kg wet	330						
Fluoranthene	BRL		µg/kg wet	330						
Fluorene	BRL		µg/kg wet	330						
Hexachlorobenzene	BRL		µg/kg wet	330						
Hexachlorobutadiene	BRL		µg/kg wet	330						
Hexachlorocyclopentadiene	BRL		µg/kg wet	330						
Hexachloroethane	BRL		µg/kg wet	330						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	330						
1-Methylnaphthalene	BRL		µg/kg wet	330						
Isophorone	BRL		µg/kg wet	330						
2-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylphenol	BRL		µg/kg wet	330						
3 & 4-Methylphenol	BRL		µg/kg wet	330						
Naphthalene	BRL		µg/kg wet	330						
2-Nitroaniline	BRL		µg/kg wet	330						
3-Nitroaniline	BRL		µg/kg wet	330						
4-Nitroaniline	BRL		µg/kg wet	1320						
Nitrobenzene	BRL		µg/kg wet	330						
2-Nitrophenol	BRL		µg/kg wet	330						
4-Nitrophenol	BRL		µg/kg wet	1320						
N-Nitrosodimethylamine	BRL		µg/kg wet	330						
N-Nitrosodi-n-propylamine	BRL		µg/kg wet	330						
N-Nitrosodiphenylamine	BRL		µg/kg wet	330						
Pentachlorophenol	BRL		µg/kg wet	330						
Phenanthrene	BRL		µg/kg wet	330						
Phenol	BRL		µg/kg wet	330						
Pyrene	BRL		µg/kg wet	330						
Pyridine	BRL		µg/kg wet	330						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	330						
2,4,5-Trichlorophenol	BRL		µg/kg wet	330						
2,4,6-Trichlorophenol	BRL		µg/kg wet	330						
Pentachloronitrobenzene	BRL		µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	2570		µg/kg wet		3330		77	30-130		
Surrogate: 2-Fluorophenol	2950		µg/kg wet		3330		89	15-110		
Surrogate: Nitrobenzene-d5	2340		µg/kg wet		3330		70	30-130		
Surrogate: Phenol-d5	2660		µg/kg wet		3330		80	15-110		
Surrogate: Terphenyl-dl4	2860		µg/kg wet		3330		86	30-130		
Surrogate: 2,4,6-Tribromophenol	2250		µg/kg wet		3330		67	15-110		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>LCS (8081816-BS1)</u>										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Acenaphthene	2490		µg/kg wet	330	3330		75	40-130		
Acenaphthylene	2450		µg/kg wet	330	3330		74	40-130		
Aniline	1960		µg/kg wet	330	3330		59	40-130		
Anthracene	2530		µg/kg wet	330	3330		76	40-130		
Atrazine	3350		µg/kg wet	330	3330		100	40-130		
Azobenzene/Diphenyldiazine	2330		µg/kg wet	330	3330		70	40-130		
Benzidine	BRL		µg/kg wet	330	3330			0-153		
Benzo (a) anthracene	2390		µg/kg wet	330	3330		72	40-130		
Benzo (a) pyrene	2450		µg/kg wet	330	3330		73	40-130		
Benzo (b) fluoranthene	2450		µg/kg wet	330	3330		73	40-130		
Benzo (g,h,i) perylene	2560		µg/kg wet	330	3330		77	40-130		
Benzo (k) fluoranthene	2680		µg/kg wet	330	3330		80	40-130		
Benzoic acid	2070		µg/kg wet	330	3330		62	0-130		
Benzyl alcohol	1550		µg/kg wet	330	3330		46	40-130		
Bis(2-chloroethoxy)methane	2360		µg/kg wet	330	3330		71	40-130		
Bis(2-chloroethyl)ether	2610		µg/kg wet	330	3330		78	40-130		
Bis(2-chloroisopropyl)ether	2630		µg/kg wet	330	3330		79	40-130		
Bis(2-ethylhexyl)phthalate	2420		µg/kg wet	330	3330		73	40-130		
4-Bromophenyl phenyl ether	2400		µg/kg wet	330	3330		72	40-130		
Butyl benzyl phthalate	2450		µg/kg wet	330	3330		73	40-130		
Carbazole	2380		µg/kg wet	330	3330		71	40-130		
4-Chloro-3-methylphenol	2270		µg/kg wet	330	3330		68	40-130		
4-Chloroaniline	1990		µg/kg wet	330	3330		60	40-130		
2-Chloronaphthalene	2270		µg/kg wet	330	3330		68	40-130		
2-Chlorophenol	2370		µg/kg wet	330	3330		71	40-130		
4-Chlorophenyl phenyl ether	2590		µg/kg wet	330	3330		78	40-130		
Chrysene	2460		µg/kg wet	330	3330		74	40-130		
Dibenzo (a,h) anthracene	2440		µg/kg wet	330	3330		73	40-130		
Dibenzofuran	2360		µg/kg wet	330	3330		71	40-130		
1,2-Dichlorobenzene	2210		µg/kg wet	330	3330		66	40-130		
1,3-Dichlorobenzene	2350		µg/kg wet	330	3330		70	40-130		
1,4-Dichlorobenzene	2290		µg/kg wet	330	3330		69	40-130		
3,3'-Dichlorobenzidine	2240		µg/kg wet	330	3330		67	40-130		
2,4-Dichlorophenol	2170		µg/kg wet	330	3330		65	40-130		
Diethyl phthalate	2550		µg/kg wet	330	3330		76	40-130		
Dimethyl phthalate	2720		µg/kg wet	330	3330		81	40-130		
2,4-Dimethylphenol	2150		µg/kg wet	330	3330		64	40-130		
Di-n-butyl phthalate	2560		µg/kg wet	330	3330		77	40-130		
4,6-Dinitro-2-methylphenol	1990		µg/kg wet	330	3330		60	40-130		
2,4-Dinitrophenol	2030		µg/kg wet	330	3330		61	40-130		
2,4-Dinitrotoluene	1820		µg/kg wet	330	3330		55	40-130		
2,6-Dinitrotoluene	2340		µg/kg wet	330	3330		70	40-130		
Di-n-octyl phthalate	2440		µg/kg wet	330	3330		73	40-130		
Fluoranthene	2450		µg/kg wet	330	3330		74	40-130		
Fluorene	2590		µg/kg wet	330	3330		78	40-130		
Hexachlorobenzene	2190		µg/kg wet	330	3330		66	40-130		
Hexachlorobutadiene	2110		µg/kg wet	330	3330		63	40-130		
Hexachlorocyclopentadiene	1490		µg/kg wet	330	3330		45	40-130		
Hexachloroethane	2240		µg/kg wet	330	3330		67	40-130		
Indeno (1,2,3-cd) pyrene	2310		µg/kg wet	330	3330		69	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>LCS (8081816-BS1)</u>										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Isophorone	2220		µg/kg wet	330	3330		67	40-130		
1-Methylnaphthalene	2300		µg/kg wet	330	3330		69	40-140		
2-Methylnaphthalene	2260		µg/kg wet	330	3330		68	40-130		
2-Methylphenol	2290		µg/kg wet	330	3330		69	40-130		
3 & 4-Methylphenol	2620		µg/kg wet	330	3330		78	40-130		
Naphthalene	2300		µg/kg wet	330	3330		69	40-130		
2-Nitroaniline	2330		µg/kg wet	330	3330		70	40-130		
3-Nitroaniline	2230		µg/kg wet	330	3330		67	40-130		
4-Nitroaniline	2310		µg/kg wet	1320	3330		69	40-130		
Nitrobenzene	2210		µg/kg wet	330	3330		66	40-130		
2-Nitrophenol	2130		µg/kg wet	330	3330		64	40-130		
4-Nitrophenol	1850		µg/kg wet	1320	3330		55	40-130		
N-Nitrosodimethylamine	2610		µg/kg wet	330	3330		78	40-130		
N-Nitrosodi-n-propylamine	2620		µg/kg wet	330	3330		79	40-130		
N-Nitrosodiphenylamine	2570		µg/kg wet	330	3330		77	40-130		
Pentachlorophenol	2780		µg/kg wet	330	3330		83	40-130		
Phenanthrene	2500		µg/kg wet	330	3330		75	40-130		
Phenol	2540		µg/kg wet	330	3330		76	40-130		
Pyrene	2470		µg/kg wet	330	3330		74	40-130		
Pyridine	1270		µg/kg wet	330	3330		38	0-130		
1,2,4-Trichlorobenzene	2140		µg/kg wet	330	3330		64	40-130		
2,4,5-Trichlorophenol	2180		µg/kg wet	330	3330		65	40-130		
2,4,6-Trichlorophenol	2410		µg/kg wet	330	3330		72	40-130		
Pentachloronitrobenzene	2290		µg/kg wet	330	3330		69	40-140		
1,2,4,5-Tetrachlorobenzene	2250		µg/kg wet	330	3330		68	40-140		
Surrogate: 2-Fluorobiphenyl	3270		µg/kg wet		3330		98	30-130		
Surrogate: 2-Fluorophenol	3240		µg/kg wet		3330		97	15-110		
Surrogate: Nitrobenzene-d5	2970		µg/kg wet		3330		89	30-130		
Surrogate: Phenol-d5	3200		µg/kg wet		3330		96	15-110		
Surrogate: Terphenyl-dl4	3090		µg/kg wet		3330		93	30-130		
Surrogate: 2,4,6-Tribromophenol	3340		µg/kg wet		3330		100	15-110		
<u>Duplicate (8081816-DUP1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Acenaphthene	BRL		µg/kg dry	197		BRL				50
Acenaphthylene	BRL		µg/kg dry	197		BRL				50
Aniline	BRL		µg/kg dry	197		BRL				50
Anthracene	BRL		µg/kg dry	197		BRL				50
Atrazine	BRL		µg/kg dry	197		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/kg dry	197		BRL				50
Benzidine	BRL		µg/kg dry	197		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	197		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	197		BRL				50
Benzo (b) fluoranthene	BRL		µg/kg dry	197		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	197		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	197		BRL				50
Benzoic acid	BRL		µg/kg dry	197		BRL				50
Benzyl alcohol	BRL		µg/kg dry	197		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/kg dry	197		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/kg dry	197		BRL				50
Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	197		BRL				50

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>Duplicate (8081816-DUP1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	197		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/kg dry	197		BRL				50
Butyl benzyl phthalate	BRL		µg/kg dry	197		BRL				50
Carbazole	BRL		µg/kg dry	197		BRL				50
4-Chloro-3-methylphenol	BRL		µg/kg dry	197		BRL				50
4-Chloroaniline	BRL		µg/kg dry	197		BRL				50
2-Chloronaphthalene	BRL		µg/kg dry	197		BRL				50
2-Chlorophenol	BRL		µg/kg dry	197		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/kg dry	197		BRL				50
Chrysene	BRL		µg/kg dry	197		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	197		BRL				50
Dibenzofuran	BRL		µg/kg dry	197		BRL				50
1,2-Dichlorobenzene	BRL		µg/kg dry	197		BRL				50
1,3-Dichlorobenzene	BRL		µg/kg dry	197		BRL				50
1,4-Dichlorobenzene	BRL		µg/kg dry	197		BRL				50
3,3'-Dichlorobenzidine	BRL		µg/kg dry	197		BRL				50
2,4-Dichlorophenol	BRL		µg/kg dry	197		BRL				50
Diethyl phthalate	BRL		µg/kg dry	197		BRL				50
Dimethyl phthalate	BRL		µg/kg dry	197		BRL				50
2,4-Dimethylphenol	BRL		µg/kg dry	197		BRL				50
Di-n-butyl phthalate	BRL		µg/kg dry	197		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	197		BRL				50
2,4-Dinitrophenol	BRL		µg/kg dry	197		BRL				50
2,4-Dinitrotoluene	BRL		µg/kg dry	197		BRL				50
2,6-Dinitrotoluene	BRL		µg/kg dry	197		BRL				50
Di-n-octyl phthalate	BRL		µg/kg dry	197		BRL				50
Fluoranthene	BRL		µg/kg dry	197		BRL				50
Fluorene	BRL		µg/kg dry	197		BRL				50
Hexachlorobenzene	BRL		µg/kg dry	197		BRL				50
Hexachlorobutadiene	BRL		µg/kg dry	197		BRL				50
Hexachlorocyclopentadiene	BRL		µg/kg dry	197		BRL				50
Hexachloroethane	BRL		µg/kg dry	197		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	197		BRL				50
Isophorone	BRL		µg/kg dry	197		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	197		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	197		BRL				50
2-Methylphenol	BRL		µg/kg dry	197		BRL				50
3 & 4-Methylphenol	BRL		µg/kg dry	197		BRL				50
Naphthalene	BRL		µg/kg dry	197		BRL				50
2-Nitroaniline	BRL		µg/kg dry	197		BRL				50
3-Nitroaniline	BRL		µg/kg dry	197		BRL				50
4-Nitroaniline	BRL		µg/kg dry	788		BRL				50
Nitrobenzene	BRL		µg/kg dry	197		BRL				50
2-Nitrophenol	BRL		µg/kg dry	197		BRL				50
4-Nitrophenol	BRL		µg/kg dry	788		BRL				50
N-Nitrosodimethylamine	BRL		µg/kg dry	197		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/kg dry	197		BRL				50
N-Nitrosodiphenylamine	BRL		µg/kg dry	197		BRL				50
Pentachlorophenol	BRL		µg/kg dry	197		BRL				50

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>Duplicate (8081816-DUP1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Phenanthrene	BRL		µg/kg dry	197		BRL				50
Phenol	BRL		µg/kg dry	197		BRL				50
Pyrene	BRL		µg/kg dry	197		BRL				50
Pyridine	BRL		µg/kg dry	197		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/kg dry	197		BRL				50
2,4,5-Trichlorophenol	BRL		µg/kg dry	197		BRL				50
2,4,6-Trichlorophenol	BRL		µg/kg dry	197		BRL				50
Pentachloronitrobenzene	BRL		µg/kg dry	197		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	197		BRL				50
Surrogate: 2-Fluorobiphenyl	1460		µg/kg dry		1990		74	30-130		
Surrogate: 2-Fluorophenol	1670		µg/kg dry		1990		84	15-110		
Surrogate: Nitrobenzene-d5	1360		µg/kg dry		1990		68	30-130		
Surrogate: Phenol-d5	1550		µg/kg dry		1990		78	15-110		
Surrogate: Terphenyl-dl4	1680		µg/kg dry		1990		84	30-130		
Surrogate: 2,4,6-Tribromophenol	1290		µg/kg dry		1990		65	15-110		
<u>Matrix Spike (8081816-MS1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Acenaphthene	1390		µg/kg dry	195	1970	BRL	70	40-140		
Benzo (b) fluoranthene	1350		µg/kg dry	195	1970	BRL	69	40-140		
Benzo (k) fluoranthene	1520		µg/kg dry	195	1970	BRL	77	40-140		
4-Chloro-3-methylphenol	1230		µg/kg dry	195	1970	BRL	62	30-130		
2-Chlorophenol	1290		µg/kg dry	195	1970	BRL	65	30-130		
Chrysene	1400		µg/kg dry	195	1970	BRL	71	40-140		
1,4-Dichlorobenzene	1280		µg/kg dry	195	1970	BRL	65	40-140		
Indeno (1,2,3-cd) pyrene	1310		µg/kg dry	195	1970	BRL	67	40-140		
Naphthalene	1280		µg/kg dry	195	1970	BRL	65	40-140		
4-Nitrophenol	1320		µg/kg dry	781	1970	BRL	67	30-130		
N-Nitrosodi-n-propylamine	1540		µg/kg dry	195	1970	BRL	78	40-140		
Pentachlorophenol	1590		µg/kg dry	195	1970	BRL	81	30-130		
Phenol	1370		µg/kg dry	195	1970	BRL	69	30-130		
Pyrene	1360		µg/kg dry	195	1970	BRL	69	40-140		
1,2,4-Trichlorobenzene	1150		µg/kg dry	195	1970	BRL	58	40-140		
Surrogate: 2-Fluorobiphenyl	1360		µg/kg dry		1970		69	30-130		
Surrogate: 2-Fluorophenol	1350		µg/kg dry		1970		68	15-110		
Surrogate: Nitrobenzene-d5	1210		µg/kg dry		1970		61	30-130		
Surrogate: Phenol-d5	1400		µg/kg dry		1970		71	15-110		
Surrogate: Terphenyl-dl4	1260		µg/kg dry		1970		64	30-130		
Surrogate: 2,4,6-Tribromophenol	1420		µg/kg dry		1970		72	15-110		
<u>Matrix Spike Dup (8081816-MSD1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Acenaphthene	1530		µg/kg dry	196	1980	BRL	78	40-140	10	30
Benzo (b) fluoranthene	1490		µg/kg dry	196	1980	BRL	75	40-140	9	30
Benzo (k) fluoranthene	1690		µg/kg dry	196	1980	BRL	85	40-140	10	30
4-Chloro-3-methylphenol	1380		µg/kg dry	196	1980	BRL	70	30-130	12	30
2-Chlorophenol	1410		µg/kg dry	196	1980	BRL	71	30-130	9	30
Chrysene	1570		µg/kg dry	196	1980	BRL	79	40-140	11	30
1,4-Dichlorobenzene	1350		µg/kg dry	196	1980	BRL	68	40-140	5	30
Indeno (1,2,3-cd) pyrene	1460		µg/kg dry	196	1980	BRL	74	40-140	10	30
Naphthalene	1390		µg/kg dry	196	1980	BRL	70	40-140	9	30
4-Nitrophenol	1220		µg/kg dry	783	1980	BRL	62	30-130	8	30
N-Nitrosodi-n-propylamine	1600		µg/kg dry	196	1980	BRL	81	40-140	4	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081816 - SW846 3545A										
<u>Matrix Spike Dup (8081816-MSD1)</u> Source: SA83497-02										
Prepared: 22-Aug-08 Analyzed: 26-Aug-08										
Pentachlorophenol	1550		µg/kg dry	196	1980	BRL	78	30-130	3	30
Phenol	1510		µg/kg dry	196	1980	BRL	76	30-130	10	30
Pyrene	1560		µg/kg dry	196	1980	BRL	79	40-140	13	30
1,2,4-Trichlorobenzene	1260		µg/kg dry	196	1980	BRL	64	40-140	9	30
Surrogate: 2-Fluorobiphenyl	1540		µg/kg dry		1980		78	30-130		
Surrogate: 2-Fluorophenol	1510		µg/kg dry		1980		76	15-110		
Surrogate: Nitrobenzene-d5	1390		µg/kg dry		1980		70	30-130		
Surrogate: Phenol-d5	1530		µg/kg dry		1980		77	15-110		
Surrogate: Terphenyl-dl4	1460		µg/kg dry		1980		74	30-130		
Surrogate: 2,4,6-Tribromophenol	1560		µg/kg dry		1980		79	15-110		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081616 - SW846 3510C										
<u>Blank (8081616-BLK1)</u>										
Prepared: 21-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.187		µg/l		0.200		94	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.162		µg/l		0.200		81	30-150		
<u>LCS (8081616-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	2.37		µg/l	0.200	2.50		95	40-140		
PCB 1260	2.35		µg/l	0.200	2.50		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.181		µg/l		0.200		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.180		µg/l		0.200		90	30-150		
<u>LCS Dup (8081616-BSD1)</u>										
Prepared: 21-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	2.33		µg/l	0.200	2.50		93	40-140	2	20
PCB 1260	2.27		µg/l	0.200	2.50		91	40-140	3	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.184		µg/l		0.200		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.171		µg/l		0.200		86	30-150		
Batch 8081818 - SW846 3545A										
<u>Blank (8081818-BLK1)</u>										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.9		µg/kg wet		20.0		64	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.2		µg/kg wet		20.0		101	30-150		
<u>LCS (8081818-BS1)</u>										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	325		µg/kg wet	20.0	250		130	40-140		
PCB 1260	346		µg/kg wet	20.0	250		138	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.6		µg/kg wet		20.0		78	30-150		
Surrogate: Decachlorobiphenyl (Sr)	26.1		µg/kg wet		20.0		130	30-150		
<u>LCS Dup (8081818-BSD1)</u>										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	291		µg/kg wet	20.0	250		116	40-140	11	30
PCB 1260	308		µg/kg wet	20.0	250		123	40-140	12	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.9		µg/kg wet		20.0		70	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.6		µg/kg wet		20.0		108	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081818 - SW846 3545A										
<u>Duplicate (8081818-DUP1)</u> Source: SA83536-04										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	BRL		µg/kg dry	22.5		BRL				40
PCB 1221	BRL		µg/kg dry	22.5		BRL				40
PCB 1232	BRL		µg/kg dry	22.5		BRL				40
PCB 1242	BRL		µg/kg dry	22.5		BRL				40
PCB 1248	BRL		µg/kg dry	22.5		BRL				40
PCB 1254	BRL		µg/kg dry	22.5		BRL				40
PCB 1260	BRL		µg/kg dry	22.5		BRL				40
PCB 1262	BRL		µg/kg dry	22.5		BRL				40
PCB 1268	BRL		µg/kg dry	22.5		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.9		µg/kg dry		22.5		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	24.2		µg/kg dry		22.5		108	30-150		
<u>Matrix Spike (8081818-MS1)</u> Source: SA83536-04										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	333		µg/kg dry	22.5	281	BRL	118	40-140		
PCB 1260	356		µg/kg dry	22.5	281	BRL	126	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.9		µg/kg dry		22.5		79	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.9		µg/kg dry		22.5		124	30-150		
<u>Matrix Spike Dup (8081818-MSD1)</u> Source: SA83536-04										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
PCB 1016	281		µg/kg dry	21.6	270	BRL	104	40-140	13	50
PCB 1260	291		µg/kg dry	21.6	270	BRL	108	40-140	16	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.3		µg/kg dry		21.6		71	30-150		
Surrogate: Decachlorobiphenyl (Sr)	24.0		µg/kg dry		21.6		111	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081631 - SW846 3510C										
<u>Blank (8081631-BLK1)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/l	0.2						
Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Naphthalene	BRL		µg/l	2.50						
2-Methylnaphthalene	BRL		µg/l	2.50						
Acenaphthylene	BRL		µg/l	2.50						
Acenaphthene	BRL		µg/l	2.50						
Fluorene	BRL		µg/l	2.50						
Phenanthrene	BRL		µg/l	2.50						
Anthracene	BRL		µg/l	2.50						
Fluoranthene	BRL		µg/l	2.50						
Pyrene	BRL		µg/l	2.50						
Benzo (a) anthracene	BRL		µg/l	2.50						
Chrysene	BRL		µg/l	2.50						
Benzo (b) fluoranthene	BRL		µg/l	2.50						
Benzo (k) fluoranthene	BRL		µg/l	2.50						
Benzo (a) pyrene	BRL		µg/l	2.50						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	2.50						
Dibenzo (a,h) anthracene	BRL		µg/l	2.50						
Benzo (g,h,i) perylene	BRL		µg/l	2.50						
Surrogate: 1-Chlorooctadecane	56.3		µg/l		50.0		113	40-140		
Surrogate: Ortho-Terphenyl	39.3		µg/l		50.0		79	40-140		
Surrogate: 2-Fluorobiphenyl	24.3		µg/l		40.0		61	40-140		
<u>LCS (8081631-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.376		mg/l	0.2	0.600		63	40-140		
C19-C36 Aliphatic Hydrocarbons	0.646		mg/l	0.2	0.800		81	40-140		
C11-C22 Aromatic Hydrocarbons	1.17		mg/l	0.2	1.70		69	40-140		
Naphthalene	53.2		µg/l	2.50	100		53	40-140		
2-Methylnaphthalene	55.8		µg/l	2.50	100		56	40-140		
Acenaphthylene	60.5		µg/l	2.50	100		61	40-140		
Acenaphthene	63.8		µg/l	2.50	100		64	40-140		
Fluorene	67.7		µg/l	2.50	100		68	40-140		
Phenanthrene	74.6		µg/l	2.50	100		75	40-140		
Anthracene	66.5		µg/l	2.50	100		67	40-140		
Fluoranthene	74.8		µg/l	2.50	100		75	40-140		
Pyrene	73.6		µg/l	2.50	100		74	40-140		
Benzo (a) anthracene	75.8		µg/l	2.50	100		76	40-140		
Chrysene	70.9		µg/l	2.50	100		71	40-140		
Benzo (b) fluoranthene	68.1		µg/l	2.50	100		68	40-140		
Benzo (k) fluoranthene	74.8		µg/l	2.50	100		75	40-140		
Benzo (a) pyrene	70.9		µg/l	2.50	100		71	40-140		
Indeno (1,2,3-cd) pyrene	86.6		µg/l	2.50	100		87	40-140		
Dibenzo (a,h) anthracene	86.1		µg/l	2.50	100		86	40-140		
Benzo (g,h,i) perylene	86.3		µg/l	2.50	100		86	40-140		
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081631 - SW846 3510C										
<u>LCS (8081631-BS1)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	52.5		µg/l		50.0		105	40-140		
Surrogate: Ortho-Terphenyl	37.6		µg/l		50.0		75	40-140		
Surrogate: 2-Fluorobiphenyl	31.2		µg/l		40.0		78	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (8081631-BS2)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.315		mg/l	0.2	0.600		52	40-140		
C19-C36 Aliphatic Hydrocarbons	0.540		mg/l	0.2	0.800		68	40-140		
C11-C22 Aromatic Hydrocarbons	1.18		mg/l	0.2	1.70		69	40-140		
Naphthalene	50.1		µg/l	2.50	100		50	40-140		
2-Methylnaphthalene	52.7		µg/l	2.50	100		53	40-140		
Acenaphthylene	59.3		µg/l	2.50	100		59	40-140		
Acenaphthene	61.7		µg/l	2.50	100		62	40-140		
Fluorene	66.4		µg/l	2.50	100		66	40-140		
Phenanthrene	73.7		µg/l	2.50	100		74	40-140		
Anthracene	65.5		µg/l	2.50	100		66	40-140		
Fluoranthene	74.0		µg/l	2.50	100		74	40-140		
Pyrene	73.8		µg/l	2.50	100		74	40-140		
Benzo (a) anthracene	75.4		µg/l	2.50	100		75	40-140		
Chrysene	73.0		µg/l	2.50	100		73	40-140		
Benzo (b) fluoranthene	73.9		µg/l	2.50	100		74	40-140		
Benzo (k) fluoranthene	72.4		µg/l	2.50	100		72	40-140		
Benzo (a) pyrene	73.4		µg/l	2.50	100		73	40-140		
Indeno (1,2,3-cd) pyrene	89.4		µg/l	2.50	100		89	40-140		
Dibenzo (a,h) anthracene	88.6		µg/l	2.50	100		89	40-140		
Benzo (g,h,i) perylene	88.6		µg/l	2.50	100		89	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
Surrogate: 1-Chlorooctadecane	37.4		µg/l		50.0		75	40-140		
Surrogate: Ortho-Terphenyl	36.7		µg/l		50.0		73	40-140		
Surrogate: 2-Fluorobiphenyl	28.9		µg/l		40.0		72	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8081631-BSD1)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.362		mg/l	0.2	0.600		60	40-140	4	25
C19-C36 Aliphatic Hydrocarbons	0.614		mg/l	0.2	0.800		77	40-140	5	25
C11-C22 Aromatic Hydrocarbons	1.16		mg/l	0.2	1.70		68	40-140	0.9	25
Naphthalene	53.7		µg/l	2.50	100		54	40-140	0.9	20
2-Methylnaphthalene	56.3		µg/l	2.50	100		56	40-140	1	20
Acenaphthylene	61.8		µg/l	2.50	100		62	40-140	2	20
Acenaphthene	64.8		µg/l	2.50	100		65	40-140	2	20
Fluorene	69.4		µg/l	2.50	100		69	40-140	2	20
Phenanthrene	74.2		µg/l	2.50	100		74	40-140	0.6	20
Anthracene	67.6		µg/l	2.50	100		68	40-140	2	20
Fluoranthene	73.8		µg/l	2.50	100		74	40-140	1	20
Pyrene	73.2		µg/l	2.50	100		73	40-140	0.6	20
Benzo (a) anthracene	72.8		µg/l	2.50	100		73	40-140	4	20

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081631 - SW846 3510C										
<u>LCS Dup (8081631-BSD1)</u>										
Prepared: 21-Aug-08 Analyzed: 22-Aug-08										
Chrysene	68.7		µg/l	2.50	100		69	40-140	3	20
Benzo (b) fluoranthene	82.2		µg/l	2.50	100		82	40-140	19	20
Benzo (k) fluoranthene	65.2		µg/l	2.50	100		65	40-140	14	20
Benzo (a) pyrene	67.9		µg/l	2.50	100		68	40-140	4	20
Indeno (1,2,3-cd) pyrene	85.5		µg/l	2.50	100		85	40-140	1	20
Dibenzo (a,h) anthracene	84.3		µg/l	2.50	100		84	40-140	2	20
Benzo (g,h,i) perylene	84.4		µg/l	2.50	100		84	40-140	2	20
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	52.0		µg/l		50.0		104	40-140		
Surrogate: Ortho-Terphenyl	38.4		µg/l		50.0		77	40-140		
Surrogate: 2-Fluorobiphenyl	30.5		µg/l		40.0		76	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8081817 - SW846 3545A										
<u>Blank (8081817-BLK1)</u>										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Ligroin	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	2.62		mg/kg wet		3.33		79	40-140		
<u>LCS (8081817-BS1)</u>										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
Fuel Oil #2	669		mg/kg wet	13.3	867		77	40-140		
Surrogate: 1-Chlorooctadecane	3.12		mg/kg wet		3.33		93	40-140		
<u>Duplicate (8081817-DUP1)</u> Source: SA83431-08										
Prepared: 22-Aug-08 Analyzed: 25-Aug-08										
Gasoline	BRL		mg/kg dry	28.5		BRL				50
Fuel Oil #2	BRL		mg/kg dry	28.5		BRL				50
Fuel Oil #4	BRL		mg/kg dry	28.5		BRL				50
Fuel Oil #6	BRL		mg/kg dry	28.5		BRL				50
Motor Oil	BRL		mg/kg dry	28.5		BRL				50
Ligroin	BRL		mg/kg dry	28.5		BRL				50
Aviation Fuel	BRL		mg/kg dry	28.5		BRL				50
Unidentified	BRL		mg/kg dry	28.5		BRL				50
Other Oil	BRL		mg/kg dry	28.5		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	28.5		BRL				50
Surrogate: 1-Chlorooctadecane	2.69		mg/kg dry		3.57		76	40-140		
Batch 8081889 - SW846 3545A										
<u>Blank (8081889-BLK1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081889 - SW846 3545A										
<u>Blank (8081889-BLK1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/kg wet	13.4						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Naphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Acenaphthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Surrogate: 1-Chlorooctadecane	3910		µg/kg wet		3330		117	40-140		
Surrogate: Ortho-Terphenyl	2640		µg/kg wet		3330		79	40-140		
Surrogate: 2-Fluorobiphenyl	1840		µg/kg wet		2670		69	40-140		
<u>LCS (8081889-BS1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
C9-C18 Aliphatic Hydrocarbons	23.8		mg/kg wet	13.4	40.0		60	40-140		
C19-C36 Aliphatic Hydrocarbons	39.1		mg/kg wet	13.4	53.3		73	40-140		
C11-C22 Aromatic Hydrocarbons	67.3		mg/kg wet	13.4	113		59	40-140		
Naphthalene	2730		µg/kg wet	66.5	6670		41	40-140		
2-Methylnaphthalene	2810		µg/kg wet	66.5	6670		42	40-140		
Acenaphthylene	3350		µg/kg wet	66.5	6670		50	40-140		
Acenaphthene	3570		µg/kg wet	66.5	6670		54	40-140		
Fluorene	3970		µg/kg wet	66.5	6670		60	40-140		
Phenanthrene	4460		µg/kg wet	66.5	6670		67	40-140		
Anthracene	4080		µg/kg wet	66.5	6670		61	40-140		
Fluoranthene	4490		µg/kg wet	66.5	6670		67	40-140		
Pyrene	4480		µg/kg wet	66.5	6670		67	40-140		
Benzo (a) anthracene	4520		µg/kg wet	66.5	6670		68	40-140		
Chrysene	4650		µg/kg wet	66.5	6670		70	40-140		
Benzo (b) fluoranthene	3700		µg/kg wet	66.5	6670		56	40-140		
Benzo (k) fluoranthene	4950		µg/kg wet	66.5	6670		74	40-140		
Benzo (a) pyrene	4000		µg/kg wet	66.5	6670		60	40-140		
Indeno (1,2,3-cd) pyrene	4380		µg/kg wet	66.5	6670		66	40-140		
Dibenzo (a,h) anthracene	4300		µg/kg wet	66.5	6670		65	40-140		
Benzo (g,h,i) perylene	4150		µg/kg wet	66.5	6670		62	40-140		
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081889 - SW846 3545A										
<u>LCS (8081889-BS1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	2950		µg/kg wet		3330		89	40-140		
Surrogate: Ortho-Terphenyl	2310		µg/kg wet		3330		69	40-140		
Surrogate: 2-Fluorobiphenyl	1690		µg/kg wet		2670		63	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (8081889-BS2)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
C9-C18 Aliphatic Hydrocarbons	23.8		mg/kg wet	13.4	40.0		60	40-140		
C19-C36 Aliphatic Hydrocarbons	42.9		mg/kg wet	13.4	53.3		80	40-140		
C11-C22 Aromatic Hydrocarbons	73.3		mg/kg wet	13.4	113		65	40-140		
Naphthalene	3470		µg/kg wet	66.5	6670		52	40-140		
2-Methylnaphthalene	3670		µg/kg wet	66.5	6670		55	40-140		
Acenaphthylene	3990		µg/kg wet	66.5	6670		60	40-140		
Acenaphthene	4170		µg/kg wet	66.5	6670		63	40-140		
Fluorene	4410		µg/kg wet	66.5	6670		66	40-140		
Phenanthrene	4890		µg/kg wet	66.5	6670		73	40-140		
Anthracene	4280		µg/kg wet	66.5	6670		64	40-140		
Fluoranthene	4570		µg/kg wet	66.5	6670		69	40-140		
Pyrene	4620		µg/kg wet	66.5	6670		69	40-140		
Benzo (a) anthracene	4520		µg/kg wet	66.5	6670		68	40-140		
Chrysene	4350		µg/kg wet	66.5	6670		65	40-140		
Benzo (b) fluoranthene	4870		µg/kg wet	66.5	6670		73	40-140		
Benzo (k) fluoranthene	4210		µg/kg wet	66.5	6670		63	40-140		
Benzo (a) pyrene	4210		µg/kg wet	66.5	6670		63	40-140		
Indeno (1,2,3-cd) pyrene	5100		µg/kg wet	66.5	6670		77	40-140		
Dibenzo (a,h) anthracene	5000		µg/kg wet	66.5	6670		75	40-140		
Benzo (g,h,i) perylene	4910		µg/kg wet	66.5	6670		74	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
Surrogate: 1-Chlorooctadecane	2210		µg/kg wet		3330		66	40-140		
Surrogate: Ortho-Terphenyl	2400		µg/kg wet		3330		72	40-140		
Surrogate: 2-Fluorobiphenyl	2090		µg/kg wet		2670		78	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8081889-BSD1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
C9-C18 Aliphatic Hydrocarbons	21.5		mg/kg wet	13.4	40.0		54	40-140	10	25
C19-C36 Aliphatic Hydrocarbons	35.1		mg/kg wet	13.4	53.3		66	40-140	11	25
C11-C22 Aromatic Hydrocarbons	77.3		mg/kg wet	13.4	113		68	40-140	14	25
Naphthalene	3180		µg/kg wet	66.5	6670		48	40-140	15	30
2-Methylnaphthalene	3400		µg/kg wet	66.5	6670		51	40-140	19	30
Acenaphthylene	4010		µg/kg wet	66.5	6670		60	40-140	18	30
Acenaphthene	4360		µg/kg wet	66.5	6670		65	40-140	20	30
Fluorene	4630		µg/kg wet	66.5	6670		69	40-140	15	30
Phenanthrene	5210		µg/kg wet	66.5	6670		78	40-140	16	30
Anthracene	4730		µg/kg wet	66.5	6670		71	40-140	15	30
Fluoranthene	5150		µg/kg wet	66.5	6670		77	40-140	14	30
Pyrene	5130		µg/kg wet	66.5	6670		77	40-140	13	30
Benzo (a) anthracene	5360		µg/kg wet	66.5	6670		80	40-140	17	30

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081889 - SW846 3545A										
<u>LCS Dup (8081889-BSD1)</u>										
Prepared: 25-Aug-08 Analyzed: 27-Aug-08										
Chrysene	5190		µg/kg wet	66.5	6670		78	40-140	11	30
Benzo (b) fluoranthene	4970		µg/kg wet	66.5	6670		75	40-140	29	30
Benzo (k) fluoranthene	5300		µg/kg wet	66.5	6670		79	40-140	7	30
Benzo (a) pyrene	4650		µg/kg wet	66.5	6670		70	40-140	15	30
Indeno (1,2,3-cd) pyrene	5000		µg/kg wet	66.5	6670		75	40-140	13	30
Dibenzo (a,h) anthracene	5020		µg/kg wet	66.5	6670		75	40-140	15	30
Benzo (g,h,i) perylene	4930		µg/kg wet	66.5	6670		74	40-140	17	30
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	2730		µg/kg wet		3330		82	40-140		
Surrogate: Ortho-Terphenyl	2650		µg/kg wet		3330		79	40-140		
Surrogate: 2-Fluorobiphenyl	1930		µg/kg wet		2670		72	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8082052 - SW846 3510C										
<u>Blank (8082052-BLK1)</u>										
Prepared: 25-Aug-08 Analyzed: 02-Sep-08										
Gasoline	BRL		mg/l	0.1						
Fuel Oil #2	BRL		mg/l	0.1						
Fuel Oil #4	BRL		mg/l	0.1						
Fuel Oil #6	BRL		mg/l	0.1						
Motor Oil	BRL		mg/l	0.1						
Ligroin	BRL		mg/l	0.1						
Aviation Fuel	BRL		mg/l	0.1						
Hydraulic Oil	BRL		mg/l	0.1						
Dielectric Fluid	BRL		mg/l	0.1						
Unidentified	BRL		mg/l	0.1						
Other Oil	BRL		mg/l	0.1						
Total Petroleum Hydrocarbons	BRL		mg/l	0.1						
Surrogate: 1-Chlorooctadecane	0.0563		mg/l		0.0500		113	40-140		
<u>LCS (8082052-BS1)</u>										
Prepared: 25-Aug-08 Analyzed: 02-Sep-08										
Fuel Oil #2	11.7		mg/l	0.1	13.0		90	40-140		
Surrogate: 1-Chlorooctadecane	0.0428		mg/l		0.0500		86	40-140		

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* Reportable Detection Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8081687 - SW846 3005A										
<u>Blank (8081687-BLK1)</u>										
Prepared & Analyzed: 28-Aug-08										
Selenium	BRL		mg/l	0.0150						
Lead	BRL		mg/l	0.0075						
Arsenic	BRL		mg/l	0.0040						
Cadmium	BRL		mg/l	0.0025						
Silver	BRL		mg/l	0.0050						
Barium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0050						
<u>LCS (8081687-BS1)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Lead	1.27		mg/l	0.0075	1.25		102	85-115		
Selenium	1.24		mg/l	0.0150	1.25		99	85-115		
Barium	1.36		mg/l	0.0050	1.25		109	85-115		
Silver	1.30		mg/l	0.0050	1.25		104	85-115		
Cadmium	1.31		mg/l	0.0025	1.25		105	85-115		
Chromium	1.33		mg/l	0.0050	1.25		107	85-115		
Arsenic	1.21		mg/l	0.0040	1.25		97	85-115		
<u>LCS Dup (8081687-BSD1)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Lead	1.33		mg/l	0.0075	1.25		107	85-115	5	20
Selenium	1.30		mg/l	0.0150	1.25		104	85-115	4	20
Chromium	1.41		mg/l	0.0050	1.25		113	85-115	6	20
Cadmium	1.38		mg/l	0.0025	1.25		110	85-115	5	20
Silver	1.37		mg/l	0.0050	1.25		110	85-115	5	20
Barium	1.43		mg/l	0.0050	1.25		114	85-115	5	20
Arsenic	1.26		mg/l	0.0040	1.25		101	85-115	4	20
<u>Duplicate (8081687-DUP1)</u> Source: SA83210-01										
Prepared & Analyzed: 28-Aug-08										
Selenium	BRL		mg/l	0.0150		BRL				20
Lead	BRL		mg/l	0.0075		BRL				20
Barium	0.0484		mg/l	0.0050		0.0454			6	20
Silver	BRL		mg/l	0.0050		BRL				20
Chromium	BRL		mg/l	0.0050		BRL				20
Cadmium	BRL		mg/l	0.0025		BRL				20
Arsenic	BRL		mg/l	0.0040		BRL				20
<u>Matrix Spike (8081687-MS1)</u> Source: SA83405-02										
Prepared & Analyzed: 28-Aug-08										
Selenium	1.29		mg/l	0.0150	1.25	BRL	103	75-125		
Lead	1.26		mg/l	0.0075	1.25	BRL	101	75-125		
Barium	1.38		mg/l	0.0050	1.25	0.0465	107	75-125		
Cadmium	1.26		mg/l	0.0025	1.25	BRL	101	75-125		
Chromium	1.35		mg/l	0.0050	1.25	BRL	108	75-125		
Arsenic	1.40		mg/l	0.0040	1.25	BRL	112	75-125		
Silver	1.56		mg/l	0.0050	1.25	BRL	125	75-125		
<u>Matrix Spike Dup (8081687-MSD1)</u> Source: SA83405-02										
Prepared & Analyzed: 28-Aug-08										
Lead	1.23		mg/l	0.0075	1.25	BRL	98	75-125	3	20
Selenium	1.29		mg/l	0.0150	1.25	BRL	103	75-125	0.2	20

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* Reportable Detection Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081687 - SW846 3005A										
<u>Matrix Spike Dup (8081687-MSD1)</u> Source: SA83405-02										
Prepared & Analyzed: 28-Aug-08										
Cadmium	1.23		mg/l	0.0025	1.25	BRL	98	75-125	2	20
Chromium	1.32		mg/l	0.0050	1.25	BRL	106	75-125	2	20
Barium	1.36		mg/l	0.0050	1.25	0.0465	105	75-125	2	20
Arsenic	1.37		mg/l	0.0040	1.25	BRL	109	75-125	3	20
Silver	1.52		mg/l	0.0050	1.25	BRL	121	75-125	3	20
<u>Post Spike (8081687-PS1)</u> Source: SA83405-02										
Prepared & Analyzed: 28-Aug-08										
Lead	1.25		mg/l	0.0075	1.25	BRL	100	80-120		
Selenium	1.36		mg/l	0.0150	1.25	BRL	109	80-120		
Cadmium	1.25		mg/l	0.0025	1.25	BRL	100	80-120		
Chromium	1.36		mg/l	0.0050	1.25	BRL	109	80-120		
Arsenic	1.38		mg/l	0.0040	1.25	BRL	110	80-120		
Barium	1.39		mg/l	0.0050	1.25	0.0465	107	80-120		
Batch 8081965 - EPA200/SW7000 Series										
<u>Blank (8081965-BLK1)</u>										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	BRL		mg/kg wet	0.0298						
<u>Duplicate (8081965-DUP1)</u> Source: SA82884-03										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	0.740	QR9	mg/kg dry	0.0335		0.482			42	20
<u>Matrix Spike (8081965-MS1)</u> Source: SA82884-04										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	0.597		mg/kg dry	0.0302	0.419	0.131	111	75-125		
<u>Matrix Spike (8081965-MS2)</u> Source: SA82884-05										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	0.675		mg/kg dry	0.0304	0.422	0.294	90	75-125		
<u>Post Spike (8081965-PS1)</u> Source: SA82884-04										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	0.595		mg/kg dry	0.0317	0.440	0.131	105	80-120		
<u>Reference (8081965-SRM1)</u>										
Prepared: 26-Aug-08 Analyzed: 27-Aug-08										
Mercury	1.43		mg/kg wet	0.0300	1.31		109	51.1-148.9		

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* Reportable Detection Limit

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Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8081688 - EPA200/SW7000 Series									
<u>Blank (8081688-BLK1)</u>									
Prepared & Analyzed: 28-Aug-08									
Mercury	BRL		mg/l	0.00020					
<u>LCS (8081688-BS1)</u>									
Prepared & Analyzed: 28-Aug-08									
Mercury	0.00441		mg/l	0.00020	0.00500		88 85-115		
<u>Duplicate (8081688-DUP1)</u> Source: SA83210-01									
Prepared & Analyzed: 28-Aug-08									
Mercury	BRL		mg/l	0.00020		BRL			20
<u>Matrix Spike (8081688-MS1)</u> Source: SA83699-01									
Prepared & Analyzed: 28-Aug-08									
Mercury	0.00466		mg/l	0.00020	0.00500	BRL	93 75-125		
<u>Matrix Spike Dup (8081688-MSD1)</u> Source: SA83699-01									
Prepared & Analyzed: 28-Aug-08									
Mercury	0.00439		mg/l	0.00020	0.00500	BRL	88 75-125	6	20
Batch 8082115 - EPA200/SW7000 Series									
<u>Blank (8082115-BLK1)</u>									
Prepared: 28-Aug-08 Analyzed: 02-Sep-08									
Selenium	BRL		mg/kg wet	1.48					
Silver	BRL		mg/kg wet	1.48					
Chromium	BRL		mg/kg wet	0.989					
Cadmium	BRL		mg/kg wet	0.495					
Arsenic	BRL		mg/kg wet	1.48					
Lead	BRL		mg/kg wet	1.48					
Barium	BRL		mg/kg wet	0.989					
<u>Duplicate (8082115-DUP1)</u> Source: SA83399-01									
Prepared: 28-Aug-08 Analyzed: 02-Sep-08									
Silver	0.910	J	mg/kg dry	1.53		BRL			20
Selenium	1.99	QR8	mg/kg dry	1.53		3.87		64	20
Cadmium	1.69	QR9	mg/kg dry	0.511		0.646		89	20
Arsenic	12.3	QR9	mg/kg dry	1.53		9.51		26	20
Lead	13.8		mg/kg dry	1.53		14.0		1	20
Chromium	10.9	QR9	mg/kg dry	1.02		36.0		107	20
Barium	14.5	QR9	mg/kg dry	1.02		70.6		132	20
<u>Matrix Spike (8082115-MS1)</u> Source: SA83399-01									
Prepared: 28-Aug-08 Analyzed: 02-Sep-08									
Silver	151		mg/kg dry	1.72	144	BRL	105 70-130		
Selenium	168		mg/kg dry	1.72	144	3.87	114 70-130		
Arsenic	164		mg/kg dry	1.72	144	9.51	108 70-130		
Lead	178		mg/kg dry	1.72	144	14.0	114 70-130		
Cadmium	160		mg/kg dry	0.575	144	0.646	111 70-130		
Chromium	165		mg/kg dry	1.15	144	36.0	90 70-130		
Barium	162	QM7	mg/kg dry	1.15	144	70.6	64 70-130		
<u>Post Spike (8082115-PS1)</u> Source: SA83399-01									
Prepared: 28-Aug-08 Analyzed: 02-Sep-08									
Selenium	175		mg/kg dry	1.79	149	3.87	115 85-115		
Silver	142		mg/kg dry	1.79	149	BRL	95 85-115		
Lead	180		mg/kg dry	1.79	149	14.0	111 85-115		

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* Reportable Detection Limit

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Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8082115 - EPA200/SW7000 Series										
<u>Post Spike (8082115-PS1)</u> Source: SA83399-01										
Prepared: 28-Aug-08 Analyzed: 02-Sep-08										
Chromium	171		mg/kg dry	1.19	149	36.0	91	85-115		
Arsenic	171		mg/kg dry	1.79	149	9.51	108	85-115		
Cadmium	167		mg/kg dry	0.597	149	0.646	111	85-115		
Barium	164	QC1	mg/kg dry	1.19	149	70.6	63	85-115		
<u>Reference (8082115-SRM1)</u>										
Prepared: 28-Aug-08 Analyzed: 02-Sep-08										
Silver	44.6		mg/kg wet	1.50	42.0		106	66.3-133		
Selenium	55.8		mg/kg wet	1.50	48.7		115	76.8-123.3		
Cadmium	58.2		mg/kg wet	0.500	53.3		109	82.8-116.8		
Chromium	123		mg/kg wet	1.00	113		109	81.7-117.9		
Lead	98.2		mg/kg wet	1.50	86.9		113	81.5-118.5		
Arsenic	72.6		mg/kg wet	1.50	68.8		106	80.5-120.3		
Barium	109		mg/kg wet	1.00	117		94	81.4-118.6		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081609 - General Preparation										
<u>Duplicate (8081609-DUP1)</u> Source: SA83392-01										
Prepared & Analyzed: 20-Aug-08										
pH	9.15		pH Units			9.17			0.2	5
<u>Reference (8081609-SRM5)</u>										
Prepared & Analyzed: 20-Aug-08										
pH	6.98		pH Units		7.00		100	97.5-102.5		
<u>Reference (8081609-SRM6)</u>										
Prepared & Analyzed: 20-Aug-08										
pH	6.97		pH Units		7.00		100	97.5-102.5		
Batch 8081661 - General Preparation										
<u>Duplicate (8081661-DUP1)</u> Source: SA83394-01										
Prepared & Analyzed: 21-Aug-08										
% Solids	89.5		%			87.0			3	20
Batch 8081677 - General Preparation										
<u>Duplicate (8081677-DUP1)</u> Source: SA83399-04										
Prepared & Analyzed: 21-Aug-08										
Flashpoint	> 150		°F			> 150				20
<u>Reference (8081677-SRM1)</u>										
Prepared & Analyzed: 21-Aug-08										
Flashpoint	82		°F		81.0		101	95-105		
Batch 8081797 - General Preparation										
<u>Duplicate (8081797-DUP1)</u> Source: SA83382-01										
Prepared & Analyzed: 22-Aug-08										
% Solids	82.5		%			80.9			2	20
Batch 8081878 - General Preparation										
<u>Duplicate (8081878-DUP1)</u> Source: SA83399-02										
Prepared & Analyzed: 25-Aug-08										
Resistivity	1460		ohm.cm			1470			0.7	200
<u>Reference (8081878-SRM1)</u>										
Prepared & Analyzed: 25-Aug-08										
Resistivity	6640		ohm.cm		6800		98	90-110		
<u>Reference (8081878-SRM2)</u>										
Prepared & Analyzed: 25-Aug-08										
Resistivity	6600		ohm.cm		6800		97	90-110		
Batch 8081916 - General Preparation										
<u>Blank (8081916-BLK1)</u>										
Prepared & Analyzed: 25-Aug-08										
Reactivity	Nonreactive		mg/l							
Reactive Cyanide	BRL		mg/l	25.0						
Reactive Sulfide	BRL		mg/l	50.0						
<u>Duplicate (8081916-DUP1)</u> Source: SA83399-04										
Prepared & Analyzed: 25-Aug-08										
Reactivity	Nonreactive		mg/l			Nonreactive				200
Reactive Cyanide	BRL		mg/l	25.0		BRL				20
Reactive Sulfide	BRL		mg/l	50.0		BRL				20

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* Reportable Detection Limit

BRL = Below Reporting Limit

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081916 - General Preparation										
<u>Reference (8081916-SRM1)</u>										
Prepared & Analyzed: 25-Aug-08										
Reactive Cyanide	5.28		mg/l	25.0	100		5	0-200		
<u>Reference (8081916-SRM2)</u>										
Prepared & Analyzed: 25-Aug-08										
Reactive Sulfide	268		mg/l	50.0	6700		4	0-200		

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081611 - General Preparation										
<u>Duplicate (8081611-DUP1)</u> Source: SA83393-01										
Prepared & Analyzed: 20-Aug-08										
pH	8.16		pH Units			8.03			2	5
<u>Reference (8081611-SRM1)</u>										
Prepared & Analyzed: 20-Aug-08										
pH	7.07		pH Units		7.00		101	97.5-102.5		
Batch 8081656 - General Preparation										
<u>Blank (8081656-BLK1)</u>										
Prepared & Analyzed: 21-Aug-08										
Reactivity	Nonreactive		mg/kg wet							
Reactive Cyanide	BRL		mg/kg wet	25.0						
Reactive Sulfide	BRL		mg/kg wet	50.0						
<u>Duplicate (8081656-DUP1)</u> Source: SA83393-01										
Prepared & Analyzed: 21-Aug-08										
Reactivity	Nonreactive		mg/kg dry			0.00				200
Reactive Cyanide	BRL		mg/kg dry	25.0		BRL				35
Reactive Sulfide	BRL		mg/kg dry	50.0		BRL				35
<u>Reference (8081656-SRM1)</u>										
Prepared & Analyzed: 21-Aug-08										
Reactive Sulfide	140		mg/kg wet	50.0	670		21	0-200		
<u>Reference (8081656-SRM2)</u>										
Prepared & Analyzed: 21-Aug-08										
Reactive Cyanide	3.82		mg/kg wet	25.0	10.0		38	0-200		
Batch 8081676 - General Preparation										
<u>Duplicate (8081676-DUP1)</u> Source: SA83399-05										
Prepared & Analyzed: 21-Aug-08										
Flashpoint	> 200		°F			> 200				35
<u>Reference (8081676-SRM1)</u>										
Prepared & Analyzed: 21-Aug-08										
Flashpoint	82		°F		81.0		101	95-105		

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Notes and Definitions

pHHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for pH is not specified within the method other than to state that the samples should be analyzed as soon as possible.
QC1	Analyte out of acceptance range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
VC10	The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.
Z-2	MSD ran outside 12hr time window
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2), (4), and (5); however, Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
- Fuel Oil #4 - includes #4 fuel oil
- Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
- Motor Oil - includes virgin and waste automobile oil
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
- Aviation Fuel - includes kerosene, Jet A and JP-4
- Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja
Rebecca Merz

Matrix	Ground Water Soil		
Containers	☒ Satisfactory ☐ Broken ☐ Leaking		
Sample Preservative	Aqueous (acid-preserved)	☐ N/A ☒ pH $\leq$ 2 ☐ pH>2 Comment:	
	Soil or Sediment	☐ N/A ☐ Samples not received in Methanol or air-tight container	
		☒ Samples received in Methanol: ☒ covering soil/sediment ☐ not covering soil/sediment	
		☐ Samples received in air-tight container:	
Temperature	☒ Received on ice ☒ Received at 4 $\pm$ 2 $^{\circ}$ C ☐ Other: $^{\circ}$ C		

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method

Matrix	Soil	Ground Water	Soil
Containers	☒ Satisfactory ☐ Broken ☐ Leaking		
Aqueous Preservative	☐ N/A ☒ pH $\leq$ 2 ☐ pH>2 ☐ pH adjusted to <2 in lab Comment:		
Temperature	☒ Received on ice ☒ Received at 4 ± 2 °C ☐ Other: °C		

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director



Report Date:
02-Sep-08 11:50



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

ENSR Corporation
2 Technology Park Drive
Westford, MA 01886-3140
Attn: Cheryl Cormier

Project: Spectra -J-2 Loop - Somerville, MA
Project 02355-159

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA82973-01	SB-51 (10)	Soil	08-Aug-08 15:00	12-Aug-08 15:15
SA82973-02	SB-52 (10)	Soil	08-Aug-08 10:40	12-Aug-08 15:15
SA82973-03	SB-52 (20)	Soil	08-Aug-08 10:40	12-Aug-08 15:15
SA82973-04	SB-53 (10)	Soil	08-Aug-08 12:30	12-Aug-08 15:15
SA82973-05	SB-53 (20)	Soil	08-Aug-08 12:30	12-Aug-08 15:15
SA82973-06	SB-51	Soil	08-Aug-08 15:00	12-Aug-08 15:15
SA82973-07	SB-52	Soil	08-Aug-08 10:40	12-Aug-08 15:15
SA82973-08	SB-53	Soil	08-Aug-08 12:30	12-Aug-08 15:15
SA82973-09	SB-53	Ground Water	08-Aug-08 12:30	12-Aug-08 15:15
SA82973-10	Trip Blank	Aqueous	08-Aug-08 00:00	12-Aug-08 15:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 122 pages of analytical data plus Chain of Custody document(s).

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Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 4.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

+MADEP EPH 5/2004 R

Laboratory Control Samples:

8080917-BS1

Analyte out of acceptance range.

2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Naphthalene

8080917-BSD1

RPD out of acceptance range.

2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo (g,h,i) perylene
Dibenzo (a,h) anthracene
Fluorene
Indeno (1,2,3-cd) pyrene
Naphthalene

+SW846 8100Mod.

Duplicates:

8081518-DUP1 *Source: SA83340-01*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

Total Petroleum Hydrocarbons
Unidentified

SW 846 8260B

Laboratory Control Samples:

8080951-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Methylene chloride

Analyte out of acceptance range.

1,1,2-Trichlorotrifluoroethane (Freon 113)

8080951-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Methylene chloride

Analyte out of acceptance range.

1,1,1,2-Tetrachloroethane

Carbon disulfide

Ethanol

RPD out of acceptance range.

1,1,2-Trichlorotrifluoroethane (Freon 113)

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

1,4-Dioxane

2,2-Dichloropropane

Carbon tetrachloride

Tetrachloroethene

trans-1,2-Dichloroethene

8081178-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Carbon disulfide

Analyte out of acceptance range.

1,1-Dichloroethene

Acrylonitrile

Methylene chloride

Tert-Butanol / butyl alcohol

trans-1,2-Dichloroethene

8081178-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Carbon disulfide

RPD out of acceptance range.

1,1-Dichloroethene

Acrylonitrile

Methylene chloride

Tert-Butanol / butyl alcohol

SW 846 8260B**Spikes:**

8081178-MS1 *Source: SA83154-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8081178-MSD1 *Source: SA83154-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

Samples:

SA82973-08 *SB-53*

The production of Acetone and other ketones is commonly seen when using the SW 846 5035A extraction technique.

Acetone

SW846 1311/6010B**Duplicates:**

8081864-DUP1 *Source: SA83464-06*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Lead

SW846 1311/8260B**Blanks:**

8081646-BLK2

8081646-BLK2 (TCLP extraction fluid blank) was analyzed outside of the 12-hour BFB window.

Laboratory Control Samples:

8081646-BS1

Analyte out of acceptance range.

Vinyl chloride

SW846 1311/8260B**Spikes:**8081646-MS1 *Source: SA83277-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene
Trichloroethene

8081646-MSD1 *Source: SA83277-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene
Trichloroethene

SW846 6010B**Duplicates:**8081462-DUP1 *Source: SA83011-02*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Cadmium

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Barium

SW846 8270C**Laboratory Control Samples:**

8080963-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Bis(2-chloroisopropyl)ether
Carbazole

8081282-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

N-Nitrosodimethylamine

Sample Identification**SB-51 (10)**

SA82973-01

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	249		uS/cm		1	SM2510B	13-Aug-08	13-Aug-08	8080992	
	Resistivity	5,650		ohm.cm		1	SM 2510B	18-Aug-08	18-Aug-08	8081324	

Sample Identification**SB-52 (10)**

SA82973-02

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	796		uS/cm		1	SM2510B	13-Aug-08	13-Aug-08	8080992	
	Resistivity	2,280		ohm.cm		1	SM 2510B	18-Aug-08	18-Aug-08	8081324	

Sample Identification**SB-52 (20)**

SA82973-03

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	58.7		uS/cm		1	SM2510B	13-Aug-08	13-Aug-08	8080992	
	Resistivity	19,400		ohm.cm		1	SM 2510B	18-Aug-08	18-Aug-08	8081324	

Sample Identification**SB-53 (10)**

SA82973-04

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	202		uS/cm		1	SM2510B	13-Aug-08	13-Aug-08	8080992	
	Resistivity	4,800		ohm.cm		1	SM 2510B	18-Aug-08	18-Aug-08	8081324	

Sample Identification**SB-53 (20)**

SA82973-05

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters											
	Specific Conductance (EC)	335		uS/cm		1	SM2510B	13-Aug-08	13-Aug-08	8080992	
	Resistivity	3,460		ohm.cm		1	SM 2510B	18-Aug-08	18-Aug-08	8081324	

Sample Identification**SB-51**

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081768	
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Aug-08	12-Aug-08	8080900	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	6.0	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
67-64-1	Acetone	BRL		µg/kg dry	59.7	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.0	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	11.9	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	59.7	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.9	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	11.9	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	11.9	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.9	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.0	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.9	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.0	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	59.7	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	59.7	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	59.7	1	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 11 of 122

Sample Identification**SB-51**

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
91-20-3	Naphthalene	BRL		µg/kg dry	6.0	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
100-42-5	Styrene	BRL		µg/kg dry	6.0	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	11.9	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	59.7	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	59.7	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	119	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.9	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2390	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	104		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	126		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	109		70-130 %			"	"	"	"	
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
71-43-2	Benzene	BRL		µg/l	5.0	5	SW846 1311/8260B	28-Aug-08	29-Aug-08	8082222	
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	92		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	100		70-130 %			"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-51

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
17060-07-0	1,2-Dichloroethane-d4	101		70-130 %		SW846 1311/8260B	28-Aug-08	29-Aug-08	8082222		
1868-53-7	Dibromofluoromethane	104		70-130 %		"	"	"	"		
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 16.54 g					
C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.820	50	MADEP VPH 5/2004 Rev. 1.1	15-Aug-08	15-Aug-08	8081152	
C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.273	50	"	"	"	"	
C9-C10 Aromatic Hydrocarbons	BRL			mg/kg dry	0.273	50	"	"	"	"	
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.820	50	"	"	"	"	
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL			mg/kg dry	0.273	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 16.54 g					
71-43-2	Benzene	BRL		µg/kg dry	54.6	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	54.6	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	54.6	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	54.6	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	54.6	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	109	50	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	54.6	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	86		70-130 %		"	"	"	"		
615-59-8	2,5-Dibromotoluene (PID)	81		70-130 %		"	"	"	"		
Semivolatile Organic Compounds by GCMS											
TCLP Extraction	Completed			N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081767	
<u>TCLP Semivolatiles by SW846 1311/8270C (TCL)</u>											
Prepared by method SW846 3535											
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	SW846 1311/8270C	25-Aug-08	25-Aug-08	8081831	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
321-60-8	2-Fluorobiphenyl	82		30-130 %		"	"	"	"		
367-12-4	2-Fluorophenol	102		15-110 %		"	"	"	"		
4165-60-0	Nitrobenzene-d5	81		30-130 %		"	"	"	"		
1718-51-0	Terphenyl-d14	84		30-130 %		"	"	"	"		
Semivolatile Organic Compounds by GC											
TCLP Extraction	Completed			N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081766	
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.080	1	SW846 1311/8081A	25-Aug-08	25-Aug-08	8081832	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-51

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
76-44-8	Heptachlor	BRL		µg/l	0.080	1	SW846 1311/8081A	25-Aug-08	25-Aug-08	8081832	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.080	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.080	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.080	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.080	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.400	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	94			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	131			30-150 %		"	"	"	"	
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	20.1	1	SW846 8082	19-Aug-08	19-Aug-08	8081389	
11104-28-2	PCB 1221	BRL		µg/kg dry	20.1	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/kg dry	20.1	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	20.1	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	20.1	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	20.1	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/kg dry	20.1	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/kg dry	20.1	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	20.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	69			30-150 %		"	"	"	"	
<u>TCLP Herbicides by SW846 1311/8151A</u>											
Prepared by method SW846 3535											
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	SW846 1311/8151A	25-Aug-08	26-Aug-08	8081836	
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	32			30-150 %		"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.9	1	MADEP EPH 5/2004 R	16-Aug-08	19-Aug-08	8081254	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.9	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	27.9	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	27.9	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.9	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.9	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	139	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	139	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	139	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**SB-51**

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	139	1	MADEP EPH 5/2004 R	16-Aug-08	19-Aug-08	8081254	
86-73-7	Fluorene	BRL		µg/kg dry	139	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	139	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	139	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	139	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	139	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	139	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	139	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	139	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	139	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	139	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	139	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	139	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	139	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	100		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	50		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	54		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
8006-61-9	Gasoline	BRL		mg/kg dry	28.7	1	+SW846 8100Mod.	20-Aug-08	21-Aug-08	8081518	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	28.7	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	28.7	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	28.7	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	28.7	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	28.7	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	28.7	1	"	"	"	"	
	Unidentified	30.7		mg/kg dry	28.7	1	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	28.7	1	"	"	"	"	
	Total Petroleum Hydrocarbons	30.7		mg/kg dry	28.7	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	62		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.58	1	SW846 6010B	20-Aug-08	21-Aug-08	8081462	
7440-38-2	Arsenic	2.06		mg/kg dry	1.58	1	"	"	"	"	
7440-39-3	Barium	30.8		mg/kg dry	1.05	1	"	"	"	"	
7440-43-9	Cadmium	0.831		mg/kg dry	0.526	1	"	"	"	"	
7440-47-3	Chromium	16.9		mg/kg dry	1.05	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/kg dry	0.0322	1	SW846 7471A	"	22-Aug-08	8081463	
7439-92-1	Lead	6.20		mg/kg dry	1.58	1	SW846 6010B	"	21-Aug-08	8081462	
7782-49-2	Selenium	BRL		mg/kg dry	1.58	1	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081764	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1311/6010B	25-Aug-08	25-Aug-08	8081864	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.246		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1311/7470A	"	25-Aug-08	8081866	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**SB-51**

SA82973-06

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 15:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1311/6010B	25-Aug-08	25-Aug-08	8081864	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	91.1		%		1	SM2540 G Mod.	12-Aug-08	12-Aug-08	8080891	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081768	
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Aug-08	12-Aug-08	8080900	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	6.7	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
67-64-1	Acetone	BRL		µg/kg dry	66.7	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.7	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	66.7	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	33.3	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	13.3	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	13.3	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.7	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	13.3	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.7	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.7	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	66.7	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	66.7	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	66.7	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
91-20-3	Naphthalene	BRL		µg/kg dry	6.7	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
100-42-5	Styrene	BRL		µg/kg dry	6.7	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	6.7	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.7	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.7	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.7	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.7	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	13.3	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	6.7	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	66.7	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.7	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	66.7	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	133	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	33.3	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2670	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	109		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	125		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	116		70-130 %			"	"	"	"	
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
71-43-2	Benzene	BRL		µg/l	5.0	5	SW846 1311/8260B	28-Aug-08	29-Aug-08	8082222	
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	93		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101		70-130 %			"	"	"	"	

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %		SW846 1311/8260B	28-Aug-08	29-Aug-08	8082222	
1868-53-7	Dibromofluoromethane	104			70-130 %		"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.9 g					
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	1.01	50	MADEP VPH 5/2004	15-Aug-08	15-Aug-08	8081152	
							Rev. 1.1				
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.335	50	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/kg dry	0.335	50	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg dry	1.01	50	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.335	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.9 g					
71-43-2	Benzene	BRL		µg/kg dry	67.1	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	67.1	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	67.1	50	"	"	"	"	
91-20-3	Naphthalene	172		µg/kg dry	67.1	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	67.1	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	134	50	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	67.1	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	106			70-130 %		"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	107			70-130 %		"	"	"	"	
Semivolatile Organic Compounds by GCMS											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081767	
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	242	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
208-96-8	Acenaphthylene	BRL		µg/kg dry	242	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	242	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	242	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	242	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	242	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	242	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	364		µg/kg dry	242	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	261		µg/kg dry	242	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	242	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	242	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	250		µg/kg dry	242	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	242	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	242	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	242	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	242	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	242	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	242	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	242	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	242	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	242	1	"	"	"	"	

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	242	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	242	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	242	1	"	"	"	"	
218-01-9	Chrysene	350		µg/kg dry	242	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	242	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	242	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	242	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	242	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	242	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	242	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	242	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	242	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	242	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	242	1	"	"	"	"	
206-44-0	Fluoranthene	669		µg/kg dry	242	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	242	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	242	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	242	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	242	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	242	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	242	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	242	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	242	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	242	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	242	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	242	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	242	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	242	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	969	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	242	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	969	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	242	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	242	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	242	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	242	1	"	"	"	"	
85-01-8	Phenanthrene	766		µg/kg dry	242	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	242	1	"	"	"	"	
129-00-0	Pyrene	731		µg/kg dry	242	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/kg dry	242	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	242	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	242	1	"	"	"	"	

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	242	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	242	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	72		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	75		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	74		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	75		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	72		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	92		15-110 %			"	"	"	"	
<u>TCLP Semivolatiles by SW846 1311/8270C (TCL)</u>											
Prepared by method SW846 3535											
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	SW846 1311/8270C	25-Aug-08	25-Aug-08	8081831	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	83		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	104		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	81		30-130 %			"	"	"	"	
1718-51-0	Terphenyl-d14	85		30-130 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
TCLP Extraction		Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081766	
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.080	1	SW846 1311/8081A	25-Aug-08	25-Aug-08	8081832	
76-44-8	Heptachlor	BRL		µg/l	0.080	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.080	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.080	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.080	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.080	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.080	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.400	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	109		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	137		30-150 %			"	"	"	"	
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	22.1	1	SW846 8082	18-Aug-08	19-Aug-08	8081276	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-52

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
11104-28-2	PCB 1221	BRL		µg/kg dry	22.1	1	SW846 8082	18-Aug-08	19-Aug-08	8081276	
11141-16-5	PCB 1232	BRL		µg/kg dry	22.1	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	22.1	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	22.1	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	22.1	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/kg dry	22.1	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/kg dry	22.1	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	22.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	77		30-150 %			"	"	"	"	
<u>TCLP Herbicides by SW846 1311/8151A</u>											
Prepared by method SW846 3535											
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	SW846 1311/8151A	25-Aug-08	26-Aug-08	8081836	
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	46		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	31.1	1	MADEP EPH 5/2004	16-Aug-08	19-Aug-08	8081254	
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	31.1	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	31.1	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	31.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	31.1	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	31.1	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	155	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	155	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	155	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	155	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	155	1	"	"	"	"	
85-01-8	Phenanthrene	419		µg/kg dry	155	1	"	"	"	"	
120-12-7	Anthracene	165		µg/kg dry	155	1	"	"	"	"	
206-44-0	Fluoranthene	438		µg/kg dry	155	1	"	"	"	"	
129-00-0	Pyrene	394		µg/kg dry	155	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	188		µg/kg dry	155	1	"	"	"	"	
218-01-9	Chrysene	225		µg/kg dry	155	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	194		µg/kg dry	155	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	155	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	155	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	155	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	155	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	155	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	92		40-140 %			"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**SB-52**

SA82973-07

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 10:40

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
84-15-1	Ortho-Terphenyl	53		40-140 %			MADEP EPH 5/2004 R	16-Aug-08	19-Aug-08	8081254	
321-60-8	2-Fluorobiphenyl	57		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
8006-61-9	Gasoline	BRL		mg/kg dry	29.8	1	+SW846 8100Mod.	20-Aug-08	21-Aug-08	8081518	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	29.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	29.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	29.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	29.8	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	29.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	29.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	29.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	29.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	29.8	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	64		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.58	1	SW846 6010B	20-Aug-08	21-Aug-08	8081462	
7440-38-2	Arsenic	4.02		mg/kg dry	1.58	1	"	"	"	"	
7440-39-3	Barium	44.8		mg/kg dry	1.05	1	"	"	"	"	
7440-43-9	Cadmium	0.788		mg/kg dry	0.525	1	"	"	"	"	
7440-47-3	Chromium	21.7		mg/kg dry	1.05	1	"	"	"	"	
7439-97-6	Mercury	0.0687		mg/kg dry	0.0314	1	SW846 7471A	"	22-Aug-08	8081463	
7439-92-1	Lead	46.6		mg/kg dry	1.58	1	SW846 6010B	"	21-Aug-08	8081462	
7782-49-2	Selenium	BRL		mg/kg dry	1.58	1	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081764	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1311/6010B	25-Aug-08	25-Aug-08	8081864	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.303		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1311/7470A	"	25-Aug-08	8081866	
7439-92-1	Lead	0.0463		mg/l	0.0150	1	SW846 1311/6010B	"	25-Aug-08	8081864	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	85.7		%		1	SM2540 G Mod.	12-Aug-08	12-Aug-08	8080891	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-53

SA82973-08

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
	TCLP Extraction	Completed		N/A		1	SW846 1311	18-Aug-08	18-Aug-08	8081340	
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Aug-08	12-Aug-08	8080900	
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/kg dry	7.6	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
67-64-1	Acetone	160	VOC6	µg/kg dry	76.4	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.6	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/kg dry	7.6	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/kg dry	15.3	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	76.4	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/kg dry	38.2	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/kg dry	15.3	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/kg dry	7.6	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/kg dry	15.3	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	15.3	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.6	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	15.3	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.6	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	76.4	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	39.5		µg/kg dry	7.6	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	76.4	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/kg dry	76.4	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-53

SA82973-08

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5 g					
91-20-3	Naphthalene	BRL		µg/kg dry	7.6	1	SW 846 8260B	15-Aug-08	16-Aug-08	8081170	
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
100-42-5	Styrene	BRL		µg/kg dry	7.6	1	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	7.6	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.6	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.6	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	15.3	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	7.6	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	76.4	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	76.4	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/kg dry	153	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	38.2	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	3060	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	104			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	127			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	111			70-130 %		"	"	"	"	
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
71-43-2	Benzene	BRL		µg/l	5.0	5	SW846 1311/8260B	21-Aug-08	21-Aug-08	8081646	
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	90			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	

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Sample Identification

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SA82973-08

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Matrix

Soil

Collection Date/Time

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Received

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>TCLP Volatile Organic Compounds by 8260B (TCL)</u>											
Prepared by method SW846 5030 Water MS						Initial weight: 5 ml					
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %		SW846 1311/8260B	21-Aug-08	21-Aug-08	8081646	
1868-53-7	Dibromofluoromethane	105			70-130 %		"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.05 g					
	C5-C8 Aliphatic Hydrocarbons	3.40		mg/kg dry	1.21	50	MADEP VPH 5/2004	15-Aug-08	15-Aug-08	8081152	
							Rev. 1.1				
	C9-C12 Aliphatic Hydrocarbons	0.685		mg/kg dry	0.404	50	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	1.05		mg/kg dry	0.404	50	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	3.88		mg/kg dry	1.21	50	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	1.74		mg/kg dry	0.404	50	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B						Initial weight: 14.05 g					
71-43-2	Benzene	BRL		µg/kg dry	80.7	50	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/kg dry	80.7	50	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	431		µg/kg dry	80.7	50	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	80.7	50	"	"	"	"	
108-88-3	Toluene	BRL		µg/kg dry	80.7	50	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/kg dry	161	50	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/kg dry	80.7	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	103			70-130 %		"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	100			70-130 %		"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>TCLP Extraction for Semivolatiles</u>											
Prepared by method SW846 1311											
	TCLP Extraction	Completed		N/A		1	SW846 1311	18-Aug-08	18-Aug-08	8081379	
<u>Re-analysis of TCLP Extraction for Semivolatiles</u>											
	TCLP Extraction	Completed		N/A		1	SW846 1311	22-Aug-08	22-Aug-08	8081767	
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
83-32-9	Acenaphthene	BRL		µg/kg dry	246	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
208-96-8	Acenaphthylene	BRL		µg/kg dry	246	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/kg dry	246	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	246	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/kg dry	246	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	246	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	246	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	246	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	246	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	246	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	246	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	246	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/kg dry	246	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/kg dry	246	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	246	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	246	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	246	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	246	1	"	"	"	"	

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Sample Identification

SB-53

SA82973-08

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	246	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	246	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/kg dry	246	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	246	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/kg dry	246	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	246	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/kg dry	246	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	246	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	246	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	246	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/kg dry	246	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	246	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	246	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/kg dry	246	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	246	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	246	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	246	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	246	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	246	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	246	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	246	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	246	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	246	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	246	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	246	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	246	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/kg dry	246	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	246	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	246	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	246	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	246	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/kg dry	246	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	246	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/kg dry	246	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/kg dry	246	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/kg dry	246	1	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/kg dry	983	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/kg dry	246	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/kg dry	983	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	246	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	246	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	246	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/kg dry	246	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	246	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/kg dry	246	1	"	"	"	"	

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Sample Identification

SB-53

SA82973-08

Client Project #

02355-159

Matrix

Soil

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08-Aug-08 12:30

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3545A											
129-00-0	Pyrene	BRL		µg/kg dry	246	1	SW846 8270C	18-Aug-08	22-Aug-08	8081282	
110-86-1	Pyridine	BRL		µg/kg dry	246	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	246	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	246	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	246	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	70		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	70		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	71		30-130 %			"	"	"	"	
4165-62-2	Phenol-d5	70		15-110 %			"	"	"	"	
1718-51-0	Terphenyl-d14	70		30-130 %			"	"	"	"	
118-79-6	2,4,6-Tribromophenol	91		15-110 %			"	"	"	"	
<u>TCLP Semivolatiles by SW846 1311/8270C (TCL)</u>											
Prepared by method SW846 3535											
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	SW846 1311/8270C	25-Aug-08	25-Aug-08	8081831	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	78		30-130 %			"	"	"	"	
367-12-4	2-Fluorophenol	92		15-110 %			"	"	"	"	
4165-60-0	Nitrobenzene-d5	69		30-130 %			"	"	"	"	
1718-51-0	Terphenyl-d14	88		30-130 %			"	"	"	"	
Semivolatile Organic Compounds by GC											
TCLP Extraction	Completed			N/A		1	SW846 1311	18-Aug-08	18-Aug-08	8081376	
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.040	1	SW846 1311/8081A	20-Aug-08	20-Aug-08	8081531	
76-44-8	Heptachlor	BRL		µg/l	0.040	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.040	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.040	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.040	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.040	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.040	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.040	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.040	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.200	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.200	1	"	"	"	"	
<i>Surrogate recoveries:</i>											

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>TCLP Pesticides by SW846 1311/8081A</u>											
Prepared by method SW846 3535											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91		30-150 %			SW846 1311/8081A	20-Aug-08	20-Aug-08	8081531	
2051-24-3	Decachlorobiphenyl (Sr)	104		30-150 %			"	"	"	"	
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	24.6	1	SW846 8082	19-Aug-08	19-Aug-08	8081389	
11104-28-2	PCB 1221	BRL		µg/kg dry	24.6	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/kg dry	24.6	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/kg dry	24.6	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/kg dry	24.6	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/kg dry	24.6	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/kg dry	24.6	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/kg dry	24.6	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/kg dry	24.6	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
<u>TCLP Herbicides by SW846 1311/8151A</u>											
Prepared by method SW846 3535											
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	SW846 1311/8151A	20-Aug-08	20-Aug-08	8081530	
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.8	1	MADEP EPH 5/2004	16-Aug-08	19-Aug-08	8081254	
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	163	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	163	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	163	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	163	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	163	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/kg dry	163	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	163	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/kg dry	163	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/kg dry	163	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	163	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	163	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	163	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	163	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	163	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-53

SA82973-08

Client Project #

02355-159

Matrix

Soil

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	163	1	MADEP EPH 5/2004 R	16-Aug-08	19-Aug-08	8081254	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	163	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	163	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	94		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	49		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	55		40-140 %			"	"	"	"	
<u>TPH 8100 by GC</u>											
Prepared by method SW846 3545A											
8006-61-9	Gasoline	BRL		mg/kg dry	32.8	1	+SW846 8100Mod.	20-Aug-08	21-Aug-08	8081518	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	
8032-32-4	Ligroin	BRL		mg/kg dry	32.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	63		40-140 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.80	1	SW846 6010B	20-Aug-08	21-Aug-08	8081462	
7440-38-2	Arsenic	5.28		mg/kg dry	1.80	1	"	"	"	"	
7440-39-3	Barium	47.1		mg/kg dry	1.20	1	"	"	"	"	
7440-43-9	Cadmium	0.614		mg/kg dry	0.602	1	"	"	"	"	
7440-47-3	Chromium	22.6		mg/kg dry	1.20	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/kg dry	0.0362	1	SW846 7471A	"	22-Aug-08	8081463	
7439-92-1	Lead	7.53		mg/kg dry	1.80	1	SW846 6010B	"	21-Aug-08	8081462	
7782-49-2	Selenium	BRL		mg/kg dry	1.80	1	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods											
<u>TCLP Extraction for Metals</u>											
Prepared by method SW846 1311											
	TCLP Extraction	Completed		N/A		1	SW846 1311	18-Aug-08	18-Aug-08	8081339	
<u>Re-analysis of TCLP Extraction for Metals</u>											
	TCLP Extraction	Completed		N/A		1	SW846 1311	27-Aug-08	27-Aug-08	8082103	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1311/6010B	28-Aug-08	29-Aug-08	8082164	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.286		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1311/7470A	"	28-Aug-08	8082165	
7439-92-1	Lead	0.0176		mg/l	0.0150	1	SW846 1311/6010B	"	29-Aug-08	8082164	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	79.1		%		1	SM2540 G Mod.	12-Aug-08	12-Aug-08	8080891	

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/l	1.0	1	SW 846 8260B	13-Aug-08	13-Aug-08	8080951	
67-64-1	Acetone	11.1		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	1,860	E	µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	13-Aug-08	13-Aug-08	8080951	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	51.3		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	88			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %		"	"	"	"	
<u>Re-analysis of Volatile Organic Compounds</u>											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	25.0	25	SW 846 8260B	15-Aug-08	15-Aug-08	8081178	
67-64-1	Acetone	BRL		µg/l	250	25	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	12.5	25	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	25.0	25	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	25.0	25	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	25.0	25	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	12.5	25	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	25.0	25	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	50.0	25	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	250	25	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	125	25	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	25.0	25	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
<u>Re-analysis of Volatile Organic Compounds</u>											
75-00-3	Chloroethane	BRL		µg/l	50.0	25	SW 846 8260B	15-Aug-08	15-Aug-08	8081178	
67-66-3	Chloroform	BRL		µg/l	25.0	25	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	50.0	25	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	25.0	25	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	25.0	25	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	50.0	25	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	12.5	25	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	12.5	25	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	25.0	25	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	50.0	25	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	25.0	25	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	25.0	25	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	25.0	25	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	25.0	25	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	25.0	25	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	25.0	25	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	25.0	25	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	25.0	25	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	25.0	25	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	12.5	25	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	12.5	25	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	12.5	25	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	250	25	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	25.0	25	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	1,760		µg/l	25.0	25	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	250	25	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	125	25	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	25.0	25	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
100-42-5	Styrene	BRL		µg/l	25.0	25	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	25.0	25	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	12.5	25	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	25.0	25	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	25.0	25	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	25.0	25	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	25.0	25	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	25.0	25	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	25.0	25	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	25.0	25	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	25.0	25	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	25.0	25	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	25.0	25	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
<u>Re-analysis of Volatile Organic Compounds</u>											
75-01-4	Vinyl chloride	BRL		µg/l	25.0	25	SW 846 8260B	15-Aug-08	15-Aug-08	8081178	
179601-23-1	m,p-Xylene	BRL		µg/l	50.0	25	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	25.0	25	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	250	25	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	25.0	25	"	"	"	"	
994-05-8	Tert-amyl methyl ether	32.8		µg/l	25.0	25	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	25.0	25	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	25.0	25	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	250	25	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	500	25	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	125	25	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	10000	25	"	"	"	"	
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	88		70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	100		70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112		70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	110		70-130 %			"	"	"	"	
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B											
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.150	10	MADEP VPH 5/2004 Rev. 1.1	20-Aug-08	20-Aug-08	8081572	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0500	10	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0500	10	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	1.25		mg/l	0.150	10	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0500	10	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
71-43-2	Benzene	BRL		µg/l	10.0	10	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	10.0	10	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	1,600		µg/l	10.0	10	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	10.0	10	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	10.0	10	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	20.0	10	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	10.0	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
615-59-8	2,5-Dibromotoluene (FID)	98		70-130 %			"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	98		70-130 %			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	5.56	1	SW846 8270C	13-Aug-08	14-Aug-08	8080963	
208-96-8	Acenaphthylene	BRL		µg/l	5.56	1	"	"	"	"	
62-53-3	Aniline	BRL		µg/l	5.56	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	5.56	1	"	"	"	"	
1912-24-9	Atrazine	BRL		µg/l	5.56	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	5.56	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/l	5.56	1	"	"	"	"	

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.56	1	SW846 8270C	13-Aug-08	14-Aug-08	8080963	
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.56	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.56	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/l	5.56	1	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/l	5.56	1	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	5.56	1	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	5.56	1	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/l	5.56	1	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.56	1	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	5.56	1	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/l	5.56	1	"	"	"	"	
86-74-8	Carbazole	BRL		µg/l	5.56	1	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	5.56	1	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/l	5.56	1	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/l	5.56	1	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/l	5.56	1	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	5.56	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	5.56	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.56	1	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/l	5.56	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/l	5.56	1	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/l	5.56	1	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/l	5.56	1	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/l	5.56	1	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/l	5.56	1	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/l	5.56	1	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	5.56	1	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/l	5.56	1	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.56	1	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	5.56	1	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/l	5.56	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/l	5.56	1	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.56	1	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	5.56	1	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	5.56	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.56	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/l	5.56	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.56	1	"	"	"	"	
95-48-7	2-Methylphenol	BRL		µg/l	5.56	1	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	11.1	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	5.56	1	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/l	5.56	1	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/l	5.56	1	"	"	"	"	

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Sample Identification

SB-53

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
<u>Semivolatile Organic Compounds by SW846 8270C</u>											
Prepared by method SW846 3510C											
100-01-6	4-Nitroaniline	BRL		µg/l	22.2	1	SW846 8270C	13-Aug-08	14-Aug-08	8080963	
98-95-3	Nitrobenzene	BRL		µg/l	5.56	1	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/l	5.56	1	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/l	22.2	1	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	5.56	1	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	5.56	1	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	5.56	1	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	22.2	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	5.56	1	"	"	"	"	
108-95-2	Phenol	BRL		µg/l	5.56	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	5.56	1	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	5.56	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
90-12-0	1-Methylnaphthalene	BRL		µg/l	5.56	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.56	1	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.56	1	"	"	"	"	
82-68-8	Pentachloronitrobenzene	BRL		µg/l	5.56	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.56	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
321-60-8	2-Fluorobiphenyl	77			30-130 %		"	"	"	"	
367-12-4	2-Fluorophenol	78			15-110 %		"	"	"	"	
4165-60-0	Nitrobenzene-d5	74			30-130 %		"	"	"	"	
4165-62-2	Phenol-d5	82			15-110 %		"	"	"	"	
1718-51-0	Terphenyl-d14	70			30-130 %		"	"	"	"	
118-79-6	2,4,6-Tribromophenol	71			15-110 %		"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.250	1	SW846 8082	13-Aug-08	13-Aug-08	8080904	
11104-28-2	PCB 1221	BRL		µg/l	0.250	1	"	"	"	"	
11141-16-5	PCB 1232	BRL		µg/l	0.250	1	"	"	"	"	
53469-21-9	PCB 1242	BRL		µg/l	0.250	1	"	"	"	"	
12672-29-6	PCB 1248	BRL		µg/l	0.250	1	"	"	"	"	
11097-69-1	PCB 1254	BRL		µg/l	0.250	1	"	"	"	"	
11096-82-5	PCB 1260	BRL		µg/l	0.250	1	"	"	"	"	
37324-23-5	PCB 1262	BRL		µg/l	0.250	1	"	"	"	"	
11100-14-4	PCB 1268	BRL		µg/l	0.250	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	48			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	76			30-150 %		"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	MADEP EPH 5/2004 R	13-Aug-08	15-Aug-08	8080917	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	

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Sample Identification**SB-53**

SA82973-09

Client Project #

02355-159

Matrix

Ground Water

Collection Date/Time

08-Aug-08 12:30

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	MADEP EPH 5/2004 R	13-Aug-08	15-Aug-08	8080917	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
91-20-3	Naphthalene	BRL		µg/l	5.56	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.56	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/l	5.56	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/l	5.56	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/l	5.56	1	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	5.56	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	5.56	1	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	5.56	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.56	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	5.56	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.56	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.56	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.56	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.56	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.56	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	71		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	58		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	62		40-140 %			"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods											
	Filtration	Lab Filtered		N/A		1	EPA 200.7/3005A	18-Aug-08	18-Aug-08	8081318	
Soluble Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010B	19-Aug-08	21-Aug-08	8081354	
7440-38-2	Arsenic	0.0182		mg/l	0.0040	1	"	"	"	"	
7440-39-3	Barium	0.0446		mg/l	0.0050	1	"	"	21-Aug-08	"	
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	21-Aug-08	"	
7440-47-3	Chromium	BRL		mg/l	0.0050	1	"	"	"	"	
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	
Soluble Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	19-Aug-08	22-Aug-08	8081355	X

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**Trip Blank**

SA82973-10

Client Project #

02355-159

Matrix

Aqueous

Collection Date/Time

08-Aug-08 00:00

Received

12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (FreonBRL 113)			µg/l	1.0	1	SW 846 8260B	13-Aug-08	13-Aug-08	8080951	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

Trip Blank
SA82973-10

Client Project #
02355-159

Matrix
Aqueous

Collection Date/Time
08-Aug-08 00:00

Received
12-Aug-08

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW 846 8260B	13-Aug-08	13-Aug-08	8080951	
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	87			70-130 %		"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %		"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %		"	"	"	"	

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
<u>Blank (8080951-BLK1)</u>										
Prepared & Analyzed: 13-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
<u>Blank (8080951-BLK1)</u>										
Prepared & Analyzed: 13-Aug-08										
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	44.0		µg/l		50.0		88	70-130		
Surrogate: Toluene-d8	49.5		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.2		µg/l		50.0		108	70-130		
Surrogate: Dibromofluoromethane	54.2		µg/l		50.0		108	70-130		
<u>LCS (8080951-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	11.6	QC1	µg/l		20.0		58	70-130		
Acetone	21.4		µg/l		20.0		107	5.22-177		
Acrylonitrile	21.3		µg/l		20.0		106	70-130		
Benzene	21.2		µg/l		20.0		106	70-130		
Bromobenzene	21.4		µg/l		20.0		107	70-130		
Bromochloromethane	20.6		µg/l		20.0		103	70-130		
Bromodichloromethane	21.5		µg/l		20.0		108	70-130		
Bromoform	22.6		µg/l		20.0		113	70-130		
Bromomethane	21.4		µg/l		20.0		107	20.3-173		
2-Butanone (MEK)	19.9		µg/l		20.0		99	40.1-155		
n-Butylbenzene	18.1		µg/l		20.0		90	70-130		
sec-Butylbenzene	18.8		µg/l		20.0		94	70-130		
tert-Butylbenzene	18.6		µg/l		20.0		93	70-130		
Carbon disulfide	14.6		µg/l		20.0		73	70-130		
Carbon tetrachloride	18.5		µg/l		20.0		92	70-130		
Chlorobenzene	20.7		µg/l		20.0		104	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
<u>LCS (8080951-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Chloroethane	17.4		µg/l		20.0		87	58.8-137		
Chloroform	21.6		µg/l		20.0		108	70-130		
Chloromethane	21.8		µg/l		20.0		109	70-130		
2-Chlorotoluene	20.5		µg/l		20.0		103	70-130		
4-Chlorotoluene	20.2		µg/l		20.0		101	70-130		
1,2-Dibromo-3-chloropropane	21.4		µg/l		20.0		107	70-130		
Dibromochloromethane	21.2		µg/l		20.0		106	70-150		
1,2-Dibromoethane (EDB)	21.5		µg/l		20.0		108	70-130		
Dibromomethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichlorobenzene	22.4		µg/l		20.0		112	70-130		
1,3-Dichlorobenzene	22.4		µg/l		20.0		112	70-130		
1,4-Dichlorobenzene	19.7		µg/l		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	16.3		µg/l		20.0		81	40.4-181		
1,1-Dichloroethane	21.3		µg/l		20.0		107	70-130		
1,2-Dichloroethane	20.5		µg/l		20.0		102	70-130		
1,1-Dichloroethene	20.0		µg/l		20.0		100	70-130		
cis-1,2-Dichloroethene	20.9		µg/l		20.0		104	70-130		
trans-1,2-Dichloroethene	17.2		µg/l		20.0		86	70-130		
1,2-Dichloropropane	20.5		µg/l		20.0		102	70-130		
1,3-Dichloropropane	21.0		µg/l		20.0		105	70-130		
2,2-Dichloropropane	18.0		µg/l		20.0		90	70-130		
1,1-Dichloropropene	18.1		µg/l		20.0		90	70-130		
cis-1,3-Dichloropropene	18.9		µg/l		20.0		95	70-130		
trans-1,3-Dichloropropene	19.2		µg/l		20.0		96	70-130		
Ethylbenzene	19.0		µg/l		20.0		95	70-130		
Hexachlorobutadiene	18.0		µg/l		20.0		90	65.3-143		
2-Hexanone (MBK)	18.9		µg/l		20.0		95	70-130		
Isopropylbenzene	19.3		µg/l		20.0		97	70-130		
4-Isopropyltoluene	18.5		µg/l		20.0		93	70-130		
Methyl tert-butyl ether	21.1		µg/l		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	19.9		µg/l		20.0		99	43.7-137		
Methylene chloride	13.8	QC2	µg/l		20.0		69	70-130		
Naphthalene	19.0		µg/l		20.0		95	70-130		
n-Propylbenzene	17.7		µg/l		20.0		88	70-130		
Styrene	19.6		µg/l		20.0		98	70-130		
1,1,1,2-Tetrachloroethane	21.6		µg/l		20.0		108	70-130		
1,1,2,2-Tetrachloroethane	21.5		µg/l		20.0		107	70-130		
Tetrachloroethene	17.0		µg/l		20.0		85	70-130		
Toluene	20.6		µg/l		20.0		103	70-130		
1,2,3-Trichlorobenzene	19.8		µg/l		20.0		99	70-130		
1,2,4-Trichlorobenzene	18.1		µg/l		20.0		91	70-130		
1,3,5-Trichlorobenzene	17.7		µg/l		20.0		89	70-130		
1,1,1-Trichloroethane	18.6		µg/l		20.0		93	70-130		
1,1,2-Trichloroethane	21.5		µg/l		20.0		108	70-130		
Trichloroethene	19.7		µg/l		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	15.8		µg/l		20.0		79	65.3-144		
1,2,3-Trichloropropane	23.4		µg/l		20.0		117	70-130		
1,2,4-Trimethylbenzene	19.6		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	18.9		µg/l		20.0		94	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
<u>LCS (8080951-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Vinyl chloride	21.3		µg/l		20.0		106	70-130		
m,p-Xylene	39.4		µg/l		40.0		99	70-130		
o-Xylene	21.0		µg/l		20.0		105	70-130		
Tetrahydrofuran	19.5		µg/l		20.0		98	70-130		
Ethyl ether	20.6		µg/l		20.0		103	70-132		
Tert-amyl methyl ether	19.9		µg/l		20.0		99	70-130		
Ethyl tert-butyl ether	21.1		µg/l		20.0		106	70-130		
Di-isopropyl ether	19.0		µg/l		20.0		95	70-130		
Tert-Butanol / butyl alcohol	215		µg/l		200		107	70-130		
1,4-Dioxane	236		µg/l		200		118	43.1-144		
trans-1,4-Dichloro-2-butene	20.1		µg/l		20.0		101	70-130		
Ethanol	454		µg/l		400		114	70-130		
Surrogate: 4-Bromofluorobenzene	52.4		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	50.5		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/l		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.0		µg/l		50.0		98	70-130		
<u>LCS Dup (8080951-BSD1)</u>										
Prepared & Analyzed: 13-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.9	QR5	µg/l		20.0		80	70-130	31	25
Acetone	23.7		µg/l		20.0		118	5.22-177	10	50
Acrylonitrile	18.3		µg/l		20.0		91	70-130	15	25
Benzene	21.0		µg/l		20.0		105	70-130	0.9	25
Bromobenzene	23.4		µg/l		20.0		117	70-130	9	25
Bromochloromethane	24.4		µg/l		20.0		122	70-130	17	25
Bromodichloromethane	23.0		µg/l		20.0		115	70-130	6	25
Bromoform	25.8		µg/l		20.0		129	70-130	13	25
Bromomethane	25.5		µg/l		20.0		128	20.3-173	18	50
2-Butanone (MEK)	23.8		µg/l		20.0		119	40.1-155	18	50
n-Butylbenzene	18.4		µg/l		20.0		92	70-130	2	25
sec-Butylbenzene	23.4		µg/l		20.0		117	70-130	22	25
tert-Butylbenzene	23.4		µg/l		20.0		117	70-130	23	25
Carbon disulfide	11.4	QC1	µg/l		20.0		57	70-130	24	25
Carbon tetrachloride	25.9	QR2	µg/l		20.0		130	70-130	34	25
Chlorobenzene	22.8		µg/l		20.0		114	70-130	10	25
Chloroethane	20.1		µg/l		20.0		100	58.8-137	14	50
Chloroform	23.3		µg/l		20.0		117	70-130	8	25
Chloromethane	20.5		µg/l		20.0		102	70-130	6	25
2-Chlorotoluene	23.6		µg/l		20.0		118	70-130	14	25
4-Chlorotoluene	21.8		µg/l		20.0		109	70-130	8	25
1,2-Dibromo-3-chloropropane	21.4		µg/l		20.0		107	70-130	0.2	25
Dibromochloromethane	23.4		µg/l		20.0		117	70-150	10	50
1,2-Dibromoethane (EDB)	22.2		µg/l		20.0		111	70-130	3	25
Dibromomethane	22.1		µg/l		20.0		111	70-130	8	25
1,2-Dichlorobenzene	21.9		µg/l		20.0		110	70-130	2	25
1,3-Dichlorobenzene	25.1		µg/l		20.0		126	70-130	12	25
1,4-Dichlorobenzene	20.2		µg/l		20.0		101	70-130	3	25
Dichlorodifluoromethane (Freon12)	21.1		µg/l		20.0		105	40.4-181	26	50
1,1-Dichloroethane	25.8		µg/l		20.0		129	70-130	19	25
1,2-Dichloroethane	22.1		µg/l		20.0		110	70-130	7	25
1,1-Dichloroethene	23.8		µg/l		20.0		119	70-130	17	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
<u>LCS Dup (8080951-BSD1)</u>										
Prepared & Analyzed: 13-Aug-08										
cis-1,2-Dichloroethene	24.4		µg/l		20.0		122	70-130	16	25
trans-1,2-Dichloroethene	24.5	QR2	µg/l		20.0		123	70-130	35	25
1,2-Dichloropropane	21.0		µg/l		20.0		105	70-130	2	25
1,3-Dichloropropane	21.6		µg/l		20.0		108	70-130	3	25
2,2-Dichloropropane	25.5	QR2	µg/l		20.0		128	70-130	34	25
1,1-Dichloropropene	18.5		µg/l		20.0		93	70-130	2	25
cis-1,3-Dichloropropene	19.4		µg/l		20.0		97	70-130	2	25
trans-1,3-Dichloropropene	22.7		µg/l		20.0		113	70-130	17	25
Ethylbenzene	20.5		µg/l		20.0		103	70-130	8	25
Hexachlorobutadiene	26.1		µg/l		20.0		130	65.3-143	36	50
2-Hexanone (MBK)	15.6		µg/l		20.0		78	70-130	19	25
Isopropylbenzene	21.0		µg/l		20.0		105	70-130	8	25
4-Isopropyltoluene	20.3		µg/l		20.0		101	70-130	9	25
Methyl tert-butyl ether	23.8		µg/l		20.0		119	70-130	12	25
4-Methyl-2-pentanone (MIBK)	16.6		µg/l		20.0		83	43.7-137	18	50
Methylene chloride	13.5	QC2	µg/l		20.0		68	70-130	2	25
Naphthalene	18.0		µg/l		20.0		90	70-130	5	25
n-Propylbenzene	20.5		µg/l		20.0		102	70-130	15	25
Styrene	20.6		µg/l		20.0		103	70-130	5	25
1,1,1,2-Tetrachloroethane	26.3	QC1	µg/l		20.0		131	70-130	19	25
1,1,2,2-Tetrachloroethane	22.8		µg/l		20.0		114	70-130	6	25
Tetrachloroethene	22.9	QR2	µg/l		20.0		115	70-130	30	25
Toluene	21.4		µg/l		20.0		107	70-130	4	25
1,2,3-Trichlorobenzene	21.2		µg/l		20.0		106	70-130	7	25
1,2,4-Trichlorobenzene	18.2		µg/l		20.0		91	70-130	0.5	25
1,3,5-Trichlorobenzene	18.9		µg/l		20.0		94	70-130	6	25
1,1,1-Trichloroethane	24.0		µg/l		20.0		120	70-130	25	25
1,1,2-Trichloroethane	22.6		µg/l		20.0		113	70-130	5	25
Trichloroethene	21.0		µg/l		20.0		105	70-130	7	25
Trichlorofluoromethane (Freon 11)	24.2		µg/l		20.0		121	65.3-144	42	50
1,2,3-Trichloropropane	25.0		µg/l		20.0		125	70-130	6	25
1,2,4-Trimethylbenzene	23.1		µg/l		20.0		116	70-130	16	25
1,3,5-Trimethylbenzene	22.3		µg/l		20.0		112	70-130	17	25
Vinyl chloride	21.5		µg/l		20.0		108	70-130	1	25
m,p-Xylene	46.3		µg/l		40.0		116	70-130	16	25
o-Xylene	24.5		µg/l		20.0		122	70-130	15	25
Tetrahydrofuran	20.6		µg/l		20.0		103	70-130	6	25
Ethyl ether	22.9		µg/l		20.0		114	70-132	11	50
Tert-amyl methyl ether	20.1		µg/l		20.0		100	70-130	0.9	25
Ethyl tert-butyl ether	21.5		µg/l		20.0		107	70-130	2	25
Di-isopropyl ether	21.5		µg/l		20.0		108	70-130	13	25
Tert-Butanol / butyl alcohol	196		µg/l		200		98	70-130	9	25
1,4-Dioxane	154	QR2	µg/l		200		77	43.1-144	42	25
trans-1,4-Dichloro-2-butene	20.0		µg/l		20.0		100	70-130	0.8	25
Ethanol	524	QC1	µg/l		400		131	70-130	14	30
Surrogate: 4-Bromofluorobenzene	54.0		µg/l		50.0		108	70-130		
Surrogate: Toluene-d8	50.6		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.9		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	55.1		µg/l		50.0		110	70-130		
<u>Matrix Spike (8080951-MS1)</u> Source: SA82973-09										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080951 - SW846 5030 Water MS										
Prepared & Analyzed: 13-Aug-08										
Benzene	15.1		µg/l		20.0	BRL	75	70-130		
Chlorobenzene	15.3		µg/l		20.0	BRL	77	70-130		
1,1-Dichloroethene	15.6		µg/l		20.0	BRL	78	70-130		
Toluene	15.2		µg/l		20.0	BRL	76	70-130		
Trichloroethene	15.4		µg/l		20.0	BRL	77	70-130		
Surrogate: 4-Bromofluorobenzene	52.8		µg/l		50.0		106	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.9		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	49.2		µg/l		50.0		98	70-130		
Matrix Spike Dup (8080951-MSD1) Source: SA82973-09										
Prepared & Analyzed: 13-Aug-08										
Benzene	15.3		µg/l		20.0	BRL	77	70-130	2	30
Chlorobenzene	15.5		µg/l		20.0	BRL	78	70-130	1	30
1,1-Dichloroethene	15.7		µg/l		20.0	BRL	79	70-130	0.6	30
Toluene	15.2		µg/l		20.0	BRL	76	70-130	0.1	30
Trichloroethene	15.2		µg/l		20.0	BRL	76	70-130	0.9	30
Surrogate: 4-Bromofluorobenzene	51.9		µg/l		50.0		104	70-130		
Surrogate: Toluene-d8	50.0		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.0		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	48.9		µg/l		50.0		98	70-130		
Batch 8081152 - VPH - EPA 5030B										
Blank (8081152-BLK1)										
Prepared & Analyzed: 15-Aug-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/kg wet	0.250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg wet	0.250						
Benzene	BRL		µg/kg wet	50.0						
Ethylbenzene	BRL		µg/kg wet	50.0						
Methyl tert-butyl ether	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	50.0						
Toluene	BRL		µg/kg wet	50.0						
m,p-Xylene	BRL		µg/kg wet	100						
o-Xylene	BRL		µg/kg wet	50.0						
2-Methylpentane	BRL		µg/kg wet	50.0						
n-Nonane	BRL		µg/kg wet	100						
n-Pentane	BRL		µg/kg wet	100						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	50.0						
2,2,4-Trimethylpentane	BRL		µg/kg wet	50.0						
n-Butylcyclohexane	BRL		µg/kg wet	50.0						
n-Decane	BRL		µg/kg wet	50.0						
Surrogate: 2,5-Dibromotoluene (FID)	55.8		µg/kg wet		50.0		112	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	55.8		µg/kg wet		50.0		112	70-130		
LCS (8081152-BS1)										
Prepared & Analyzed: 15-Aug-08										
C5-C8 Aliphatic Hydrocarbons	107		mg/kg wet		140		76	70-130		
C9-C12 Aliphatic Hydrocarbons	66.0		mg/kg wet		55.2		120	70-130		
C9-C10 Aromatic Hydrocarbons	37.8		mg/kg wet		40.0		95	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	249		mg/kg wet		280		89	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	104		mg/kg wet		84.8		122	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081152 - VPH - EPA 5030B										
<u>LCS (8081152-BS1)</u>										
Prepared & Analyzed: 15-Aug-08										
Benzene	19.7		µg/kg wet		20.0		98	70-130		
Ethylbenzene	19.2		µg/kg wet		20.0		96	70-130		
Methyl tert-butyl ether	24.1		µg/kg wet		20.0		120	70-130		
Naphthalene	19.5		µg/kg wet		20.0		98	70-130		
Toluene	19.1		µg/kg wet		20.0		96	70-130		
m,p-Xylene	40.3		µg/kg wet		40.0		101	70-130		
o-Xylene	20.4		µg/kg wet		20.0		102	70-130		
2-Methylpentane	19.3		µg/kg wet		20.0		97	70-130		
n-Nonane	24.4		µg/kg wet		20.0		122	70-130		
n-Pentane	18.5		µg/kg wet		20.0		92	70-130		
1,2,4-Trimethylbenzene	20.2		µg/kg wet		20.0		101	70-130		
2,2,4-Trimethylpentane	20.7		µg/kg wet		20.0		103	70-130		
n-Butylcyclohexane	25.3		µg/kg wet		20.0		127	70-130		
n-Decane	25.4		µg/kg wet		20.0		127	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	55.7		µg/kg wet		50.0		111	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	55.1		µg/kg wet		50.0		110	70-130		
<u>LCS Dup (8081152-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
C5-C8 Aliphatic Hydrocarbons	105		mg/kg wet		140		75	70-130	2	25
C9-C12 Aliphatic Hydrocarbons	63.7		mg/kg wet		55.2		115	70-130	4	25
C9-C10 Aromatic Hydrocarbons	37.8		mg/kg wet		40.0		94	70-130	0.2	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	252		mg/kg wet		280		90	70-130	1	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	101		mg/kg wet		84.8		120	70-130	2	25
Benzene	20.9		µg/kg wet		20.0		104	70-130	6	25
Ethylbenzene	19.3		µg/kg wet		20.0		96	70-130	0.3	25
Methyl tert-butyl ether	25.1		µg/kg wet		20.0		126	70-130	4	25
Naphthalene	19.8		µg/kg wet		20.0		99	70-130	1	25
Toluene	19.9		µg/kg wet		20.0		99	70-130	4	25
m,p-Xylene	41.3		µg/kg wet		40.0		103	70-130	2	25
o-Xylene	20.8		µg/kg wet		20.0		104	70-130	2	25
2-Methylpentane	21.0		µg/kg wet		20.0		105	70-130	8	25
n-Nonane	23.0		µg/kg wet		20.0		115	70-130	6	25
n-Pentane	17.1		µg/kg wet		20.0		86	70-130	8	25
1,2,4-Trimethylbenzene	20.9		µg/kg wet		20.0		104	70-130	3	25
2,2,4-Trimethylpentane	18.3		µg/kg wet		20.0		92	70-130	12	25
n-Butylcyclohexane	24.0		µg/kg wet		20.0		120	70-130	5	25
n-Decane	23.4		µg/kg wet		20.0		117	70-130	8	25
Surrogate: 2,5-Dibromotoluene (FID)	54.7		µg/kg wet		50.0		109	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	54.3		µg/kg wet		50.0		109	70-130		
<u>Duplicate (8081152-DUP1)</u> Source: SA82738-01										
Prepared & Analyzed: 15-Aug-08										
C5-C8 Aliphatic Hydrocarbons	7.73		mg/kg dry	1.69		8.02			4	50
C9-C12 Aliphatic Hydrocarbons	0.894		mg/kg dry	0.563		1.06			17	50
C9-C10 Aromatic Hydrocarbons	1.50		mg/kg dry	0.563		1.56			4	50
Unadjusted C5-C8 Aliphatic Hydrocarbons	7.96		mg/kg dry	1.69		8.25			4	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	2.39		mg/kg dry	0.563		2.61			9	50
Benzene	BRL		µg/kg dry	113		BRL				50
Ethylbenzene	BRL		µg/kg dry	113		BRL				50
Methyl tert-butyl ether	BRL		µg/kg dry	113		BRL				50

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081152 - VPH - EPA 5030B										
Duplicate (8081152-DUP1)		Source: SA82738-01								
Prepared & Analyzed: 15-Aug-08										
Naphthalene	BRL		µg/kg dry	113		BRL				50
Toluene	BRL		µg/kg dry	113		BRL				50
m,p-Xylene	121	J	µg/kg dry	225		122			0.6	50
o-Xylene	105	J	µg/kg dry	113		98.9			6	50
Surrogate: 2,5-Dibromotoluene (FID)	54.4		µg/kg dry		50.0		109	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	53.7		µg/kg dry		50.0		107	70-130		
Matrix Spike (8081152-MS1)		Source: SA82738-01								
Prepared & Analyzed: 15-Aug-08										
Benzene	19.8		µg/kg dry		20.0	BRL	99	70-130		
Ethylbenzene	21.6		µg/kg dry		20.0	BRL	108	70-130		
Methyl tert-butyl ether	20.9		µg/kg dry		20.0	BRL	104	70-130		
Naphthalene	20.3		µg/kg dry		20.0	BRL	101	70-130		
Toluene	20.1		µg/kg dry		20.0	BRL	101	70-130		
m,p-Xylene	44.2		µg/kg dry		40.0	1.5	107	70-130		
o-Xylene	22.4		µg/kg dry		20.0	1.2	106	70-130		
2-Methylpentane	18.6		µg/kg dry		20.0	BRL	93	70-130		
n-Nonane	21.0		µg/kg dry		20.0	BRL	105	70-130		
n-Pentane	16.9		µg/kg dry		20.0	BRL	85	70-130		
1,2,4-Trimethylbenzene	20.2		µg/kg dry		20.0	2.1	91	70-130		
2,2,4-Trimethylpentane	19.1		µg/kg dry		20.0	BRL	95	70-130		
n-Butylcyclohexane	22.1		µg/kg dry		20.0	BRL	110	70-130		
n-Decane	22.9		µg/kg dry		20.0	3.3	98	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	50.6		µg/kg dry		50.0		101	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	49.6		µg/kg dry		50.0		99	70-130		
Batch 8081170 - SW846 5035A Soil (low level)										
Blank (8081170-BLK1)										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081170 - SW846 5035A Soil (low level)										
<u>Blank (8081170-BLK1)</u>										
Prepared & Analyzed: 15-Aug-08										
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081170 - SW846 5035A Soil (low level)										
<u>Blank (8081170-BLK1)</u>										
Prepared & Analyzed: 15-Aug-08										
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	51.7		µg/kg wet		50.0		103	70-130		
Surrogate: Toluene-d8	50.3		µg/kg wet		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.2		µg/kg wet		50.0		128	70-130		
Surrogate: Dibromofluoromethane	54.7		µg/kg wet		50.0		109	70-130		
<u>LCS (8081170-BS1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.6		µg/kg wet		20.0		118	70-130		
Acetone	11.7		µg/kg wet		20.0		59	15.9-162		
Acrylonitrile	21.7		µg/kg wet		20.0		108	70-130		
Benzene	19.9		µg/kg wet		20.0		99	70-130		
Bromobenzene	21.8		µg/kg wet		20.0		109	70-130		
Bromochloromethane	22.6		µg/kg wet		20.0		113	70-130		
Bromodichloromethane	21.0		µg/kg wet		20.0		105	70-130		
Bromoform	21.9		µg/kg wet		20.0		109	70-130		
Bromomethane	21.3		µg/kg wet		20.0		107	40.8-154		
2-Butanone (MEK)	20.2		µg/kg wet		20.0		101	27.2-154		
n-Butylbenzene	20.8		µg/kg wet		20.0		104	70-130		
sec-Butylbenzene	23.0		µg/kg wet		20.0		115	70-130		
tert-Butylbenzene	22.7		µg/kg wet		20.0		113	70-130		
Carbon disulfide	20.0		µg/kg wet		20.0		100	70-130		
Carbon tetrachloride	21.0		µg/kg wet		20.0		105	70-130		
Chlorobenzene	20.0		µg/kg wet		20.0		100	70-130		
Chloroethane	21.2		µg/kg wet		20.0		106	59.1-130		
Chloroform	18.8		µg/kg wet		20.0		94	70-130		
Chloromethane	22.0		µg/kg wet		20.0		110	70-130		
2-Chlorotoluene	22.5		µg/kg wet		20.0		113	70-130		
4-Chlorotoluene	21.4		µg/kg wet		20.0		107	70-130		
1,2-Dibromo-3-chloropropane	18.8		µg/kg wet		20.0		94	70-130		
Dibromochloromethane	22.1		µg/kg wet		20.0		111	67-133		
1,2-Dibromoethane (EDB)	21.5		µg/kg wet		20.0		108	70-130		
Dibromomethane	20.4		µg/kg wet		20.0		102	70-130		
1,2-Dichlorobenzene	20.9		µg/kg wet		20.0		105	70-130		
1,3-Dichlorobenzene	21.4		µg/kg wet		20.0		107	70-130		
1,4-Dichlorobenzene	19.9		µg/kg wet		20.0		99	70-130		
Dichlorodifluoromethane (Freon12)	22.8		µg/kg wet		20.0		114	33.9-180		
1,1-Dichloroethane	21.4		µg/kg wet		20.0		107	70-130		
1,2-Dichloroethane	20.5		µg/kg wet		20.0		102	70-130		
1,1-Dichloroethene	21.0		µg/kg wet		20.0		105	70-130		
cis-1,2-Dichloroethene	20.9		µg/kg wet		20.0		105	70-130		
trans-1,2-Dichloroethene	20.0		µg/kg wet		20.0		100	70-130		
1,2-Dichloropropane	21.2		µg/kg wet		20.0		106	70-130		
1,3-Dichloropropane	20.6		µg/kg wet		20.0		103	70-130		
2,2-Dichloropropane	19.7		µg/kg wet		20.0		98	70-130		
1,1-Dichloropropene	20.9		µg/kg wet		20.0		105	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081170 - SW846 5035A Soil (low level)										
<u>LCS (8081170-BS1)</u>										
Prepared & Analyzed: 15-Aug-08										
cis-1,3-Dichloropropene	20.6		µg/kg wet		20.0		103	70-130		
trans-1,3-Dichloropropene	19.8		µg/kg wet		20.0		99	70-130		
Ethylbenzene	21.1		µg/kg wet		20.0		106	70-130		
Hexachlorobutadiene	19.3		µg/kg wet		20.0		96	57-138		
2-Hexanone (MBK)	18.7		µg/kg wet		20.0		94	70-130		
Isopropylbenzene	20.8		µg/kg wet		20.0		104	70-130		
4-Isopropyltoluene	21.5		µg/kg wet		20.0		107	70-130		
Methyl tert-butyl ether	19.3		µg/kg wet		20.0		97	70-130		
4-Methyl-2-pentanone (MIBK)	17.3		µg/kg wet		20.0		86	55.4-131		
Methylene chloride	21.7		µg/kg wet		20.0		109	70-130		
Naphthalene	18.8		µg/kg wet		20.0		94	70-130		
n-Propylbenzene	21.8		µg/kg wet		20.0		109	70-130		
Styrene	21.7		µg/kg wet		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	21.2		µg/kg wet		20.0		106	70-130		
1,1,2,2-Tetrachloroethane	21.6		µg/kg wet		20.0		108	70-130		
Tetrachloroethene	21.3		µg/kg wet		20.0		106	70-130		
Toluene	20.2		µg/kg wet		20.0		101	70-130		
1,2,3-Trichlorobenzene	19.4		µg/kg wet		20.0		97	70-130		
1,2,4-Trichlorobenzene	18.4		µg/kg wet		20.0		92	70-130		
1,3,5-Trichlorobenzene	18.6		µg/kg wet		20.0		93	70-130		
1,1,1-Trichloroethane	21.0		µg/kg wet		20.0		105	70-130		
1,1,2-Trichloroethane	20.8		µg/kg wet		20.0		104	70-130		
Trichloroethene	21.0		µg/kg wet		20.0		105	70-130		
Trichlorofluoromethane (Freon 11)	22.5		µg/kg wet		20.0		113	52-154		
1,2,3-Trichloropropane	25.7		µg/kg wet		20.0		129	70-130		
1,2,4-Trimethylbenzene	22.3		µg/kg wet		20.0		112	70-130		
1,3,5-Trimethylbenzene	22.3		µg/kg wet		20.0		111	70-130		
Vinyl chloride	24.4		µg/kg wet		20.0		122	70-130		
m,p-Xylene	43.0		µg/kg wet		40.0		108	70-130		
o-Xylene	21.9		µg/kg wet		20.0		110	70-130		
Tetrahydrofuran	18.5		µg/kg wet		20.0		93	70-130		
Ethyl ether	19.2		µg/kg wet		20.0		96	65.7-131		
Tert-amyl methyl ether	20.1		µg/kg wet		20.0		101	70-130		
Ethyl tert-butyl ether	20.6		µg/kg wet		20.0		103	70-130		
Di-isopropyl ether	19.8		µg/kg wet		20.0		99	70-130		
Tert-Butanol / butyl alcohol	183		µg/kg wet		200		92	70-130		
1,4-Dioxane	186		µg/kg wet		200		93	50.9-140		
trans-1,4-Dichloro-2-butene	19.4		µg/kg wet		20.0		97	70-130		
Ethanol	423		µg/kg wet		400		106	70-130		
Surrogate: 4-Bromofluorobenzene	53.9		µg/kg wet		50.0		108	70-130		
Surrogate: Toluene-d8	51.3		µg/kg wet		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.8		µg/kg wet		50.0		100	70-130		
Surrogate: Dibromofluoromethane	50.8		µg/kg wet		50.0		102	70-130		
<u>LCS Dup (8081170-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.8		µg/kg wet		20.0		124	70-130	5	25
Acetone	12.4		µg/kg wet		20.0		62	15.9-162	5	50
Acrylonitrile	21.4		µg/kg wet		20.0		107	70-130	1	25
Benzene	21.3		µg/kg wet		20.0		106	70-130	7	25
Bromobenzene	22.0		µg/kg wet		20.0		110	70-130	1	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081170 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081170-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
Bromochloromethane	22.5		µg/kg wet		20.0		113	70-130	0.1	25
Bromodichloromethane	22.7		µg/kg wet		20.0		113	70-130	8	25
Bromoform	22.1		µg/kg wet		20.0		110	70-130	1	25
Bromomethane	21.8		µg/kg wet		20.0		109	40.8-154	2	50
2-Butanone (MEK)	17.3		µg/kg wet		20.0		87	27.2-154	15	50
n-Butylbenzene	22.5		µg/kg wet		20.0		113	70-130	8	25
sec-Butylbenzene	23.4		µg/kg wet		20.0		117	70-130	2	25
tert-Butylbenzene	23.2		µg/kg wet		20.0		116	70-130	2	25
Carbon disulfide	20.7		µg/kg wet		20.0		104	70-130	4	25
Carbon tetrachloride	22.9		µg/kg wet		20.0		115	70-130	9	25
Chlorobenzene	21.4		µg/kg wet		20.0		107	70-130	7	25
Chloroethane	21.0		µg/kg wet		20.0		105	59.1-130	0.7	50
Chloroform	21.2		µg/kg wet		20.0		106	70-130	12	25
Chloromethane	22.4		µg/kg wet		20.0		112	70-130	2	25
2-Chlorotoluene	22.8		µg/kg wet		20.0		114	70-130	1	25
4-Chlorotoluene	22.2		µg/kg wet		20.0		111	70-130	4	25
1,2-Dibromo-3-chloropropane	20.4		µg/kg wet		20.0		102	70-130	8	25
Dibromochloromethane	22.6		µg/kg wet		20.0		113	67-133	2	50
1,2-Dibromoethane (EDB)	22.2		µg/kg wet		20.0		111	70-130	3	25
Dibromomethane	21.5		µg/kg wet		20.0		108	70-130	5	25
1,2-Dichlorobenzene	22.8		µg/kg wet		20.0		114	70-130	9	25
1,3-Dichlorobenzene	22.7		µg/kg wet		20.0		114	70-130	6	25
1,4-Dichlorobenzene	21.2		µg/kg wet		20.0		106	70-130	7	25
Dichlorodifluoromethane (Freon12)	23.8		µg/kg wet		20.0		119	33.9-180	4	50
1,1-Dichloroethane	23.1		µg/kg wet		20.0		116	70-130	8	25
1,2-Dichloroethane	21.6		µg/kg wet		20.0		108	70-130	5	25
1,1-Dichloroethene	23.7		µg/kg wet		20.0		119	70-130	12	25
cis-1,2-Dichloroethene	22.7		µg/kg wet		20.0		113	70-130	8	25
trans-1,2-Dichloroethene	22.4		µg/kg wet		20.0		112	70-130	12	25
1,2-Dichloropropane	22.6		µg/kg wet		20.0		113	70-130	6	25
1,3-Dichloropropane	21.8		µg/kg wet		20.0		109	70-130	5	25
2,2-Dichloropropane	21.7		µg/kg wet		20.0		108	70-130	10	25
1,1-Dichloropropene	23.2		µg/kg wet		20.0		116	70-130	10	25
cis-1,3-Dichloropropene	21.6		µg/kg wet		20.0		108	70-130	4	25
trans-1,3-Dichloropropene	20.2		µg/kg wet		20.0		101	70-130	2	25
Ethylbenzene	22.4		µg/kg wet		20.0		112	70-130	6	25
Hexachlorobutadiene	21.7		µg/kg wet		20.0		108	57-138	12	50
2-Hexanone (MBK)	18.4		µg/kg wet		20.0		92	70-130	2	25
Isopropylbenzene	21.4		µg/kg wet		20.0		107	70-130	3	25
4-Isopropyltoluene	24.1		µg/kg wet		20.0		121	70-130	12	25
Methyl tert-butyl ether	20.7		µg/kg wet		20.0		103	70-130	7	25
4-Methyl-2-pentanone (MIBK)	17.4		µg/kg wet		20.0		87	55.4-131	0.6	50
Methylene chloride	21.6		µg/kg wet		20.0		108	70-130	0.7	25
Naphthalene	18.8		µg/kg wet		20.0		94	70-130	0.2	25
n-Propylbenzene	22.5		µg/kg wet		20.0		112	70-130	3	25
Styrene	22.3		µg/kg wet		20.0		112	70-130	3	25
1,1,1,2-Tetrachloroethane	22.8		µg/kg wet		20.0		114	70-130	7	25
1,1,2,2-Tetrachloroethane	22.0		µg/kg wet		20.0		110	70-130	2	25
Tetrachloroethene	22.5		µg/kg wet		20.0		112	70-130	5	25

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081170 - SW846 5035A Soil (low level)										
<u>LCS Dup (8081170-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
Toluene	21.4		µg/kg wet		20.0		107	70-130	6	25
1,2,3-Trichlorobenzene	20.4		µg/kg wet		20.0		102	70-130	5	25
1,2,4-Trichlorobenzene	19.6		µg/kg wet		20.0		98	70-130	7	25
1,3,5-Trichlorobenzene	20.6		µg/kg wet		20.0		103	70-130	10	25
1,1,1-Trichloroethane	23.2		µg/kg wet		20.0		116	70-130	10	25
1,1,2-Trichloroethane	22.7		µg/kg wet		20.0		114	70-130	9	25
Trichloroethene	22.8		µg/kg wet		20.0		114	70-130	8	25
Trichlorofluoromethane (Freon 11)	24.1		µg/kg wet		20.0		120	52-154	7	50
1,2,3-Trichloropropane	24.5		µg/kg wet		20.0		122	70-130	5	25
1,2,4-Trimethylbenzene	22.4		µg/kg wet		20.0		112	70-130	0.3	25
1,3,5-Trimethylbenzene	22.3		µg/kg wet		20.0		112	70-130	0.1	25
Vinyl chloride	24.6		µg/kg wet		20.0		123	70-130	0.9	25
m,p-Xylene	45.7		µg/kg wet		40.0		114	70-130	6	25
o-Xylene	22.4		µg/kg wet		20.0		112	70-130	2	25
Tetrahydrofuran	18.7		µg/kg wet		20.0		93	70-130	0.9	25
Ethyl ether	19.7		µg/kg wet		20.0		99	65.7-131	3	50
Tert-amyl methyl ether	20.0		µg/kg wet		20.0		100	70-130	0.9	25
Ethyl tert-butyl ether	22.0		µg/kg wet		20.0		110	70-130	7	25
Di-isopropyl ether	20.9		µg/kg wet		20.0		104	70-130	6	25
Tert-Butanol / butyl alcohol	176		µg/kg wet		200		88	70-130	4	25
1,4-Dioxane	228		µg/kg wet		200		114	50.9-140	20	25
trans-1,4-Dichloro-2-butene	18.9		µg/kg wet		20.0		94	70-130	3	25
Ethanol	416		µg/kg wet		400		104	70-130	2	30
Surrogate: 4-Bromofluorobenzene	51.7		µg/kg wet		50.0		103	70-130		
Surrogate: Toluene-d8	50.0		µg/kg wet		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.5		µg/kg wet		50.0		97	70-130		
Surrogate: Dibromofluoromethane	51.3		µg/kg wet		50.0		103	70-130		
Batch 8081178 - SW846 5030 Water MS										
<u>Blank (8081178-BLK1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>Blank (8081178-BLK1)</u>										
Prepared & Analyzed: 15-Aug-08										
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>Blank (8081178-BLK1)</u>										
Prepared & Analyzed: 15-Aug-08										
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	44.3		µg/l		50.0		89	70-130		
Surrogate: Toluene-d8	49.9		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	55.4		µg/l		50.0		111	70-130		
Surrogate: Dibromofluoromethane	55.6		µg/l		50.0		111	70-130		
<u>LCS (8081178-BS1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	14.9		µg/l		20.0		74	70-130		
Acetone	20.8		µg/l		20.0		104	5.22-177		
Acrylonitrile	12.0	QC1	µg/l		20.0		60	70-130		
Benzene	21.8		µg/l		20.0		109	70-130		
Bromobenzene	20.6		µg/l		20.0		103	70-130		
Bromochloromethane	21.0		µg/l		20.0		105	70-130		
Bromodichloromethane	21.3		µg/l		20.0		106	70-130		
Bromoform	20.5		µg/l		20.0		102	70-130		
Bromomethane	18.8		µg/l		20.0		94	20.3-173		
2-Butanone (MEK)	22.3		µg/l		20.0		112	40.1-155		
n-Butylbenzene	19.2		µg/l		20.0		96	70-130		
sec-Butylbenzene	19.8		µg/l		20.0		99	70-130		
tert-Butylbenzene	19.0		µg/l		20.0		95	70-130		
Carbon disulfide	12.9	QC2	µg/l		20.0		65	70-130		
Carbon tetrachloride	20.1		µg/l		20.0		101	70-130		
Chlorobenzene	20.6		µg/l		20.0		103	70-130		
Chloroethane	18.7		µg/l		20.0		93	58.8-137		
Chloroform	22.2		µg/l		20.0		111	70-130		
Chloromethane	24.6		µg/l		20.0		123	70-130		
2-Chlorotoluene	20.6		µg/l		20.0		103	70-130		
4-Chlorotoluene	20.1		µg/l		20.0		101	70-130		
1,2-Dibromo-3-chloropropane	19.6		µg/l		20.0		98	70-130		
Dibromochloromethane	20.9		µg/l		20.0		104	70-150		
1,2-Dibromoethane (EDB)	21.3		µg/l		20.0		106	70-130		
Dibromomethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichlorobenzene	21.9		µg/l		20.0		109	70-130		
1,3-Dichlorobenzene	22.5		µg/l		20.0		112	70-130		
1,4-Dichlorobenzene	19.2		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	21.8		µg/l		20.0		109	40.4-181		
1,1-Dichloroethane	21.8		µg/l		20.0		109	70-130		
1,2-Dichloroethane	20.7		µg/l		20.0		103	70-130		
1,1-Dichloroethene	13.7	QC1	µg/l		20.0		69	70-130		
cis-1,2-Dichloroethene	21.2		µg/l		20.0		106	70-130		
trans-1,2-Dichloroethene	26.8	QC1	µg/l		20.0		134	70-130		
1,2-Dichloropropane	20.9		µg/l		20.0		105	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>LCS (8081178-BS1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,3-Dichloropropane	21.9		µg/l		20.0		109	70-130		
2,2-Dichloropropane	21.2		µg/l		20.0		106	70-130		
1,1-Dichloropropene	20.6		µg/l		20.0		103	70-130		
cis-1,3-Dichloropropene	18.7		µg/l		20.0		94	70-130		
trans-1,3-Dichloropropene	18.8		µg/l		20.0		94	70-130		
Ethylbenzene	18.9		µg/l		20.0		94	70-130		
Hexachlorobutadiene	18.8		µg/l		20.0		94	65.3-143		
2-Hexanone (MBK)	18.3		µg/l		20.0		91	70-130		
Isopropylbenzene	19.8		µg/l		20.0		99	70-130		
4-Isopropyltoluene	18.9		µg/l		20.0		95	70-130		
Methyl tert-butyl ether	21.8		µg/l		20.0		109	70-130		
4-Methyl-2-pentanone (MIBK)	19.0		µg/l		20.0		95	43.7-137		
Methylene chloride	13.7	QC1	µg/l		20.0		69	70-130		
Naphthalene	17.2		µg/l		20.0		86	70-130		
n-Propylbenzene	18.2		µg/l		20.0		91	70-130		
Styrene	19.0		µg/l		20.0		95	70-130		
1,1,1,2-Tetrachloroethane	20.9		µg/l		20.0		104	70-130		
1,1,2,2-Tetrachloroethane	21.3		µg/l		20.0		106	70-130		
Tetrachloroethene	19.5		µg/l		20.0		98	70-130		
Toluene	20.8		µg/l		20.0		104	70-130		
1,2,3-Trichlorobenzene	18.8		µg/l		20.0		94	70-130		
1,2,4-Trichlorobenzene	17.4		µg/l		20.0		87	70-130		
1,3,5-Trichlorobenzene	17.3		µg/l		20.0		86	70-130		
1,1,1-Trichloroethane	20.0		µg/l		20.0		100	70-130		
1,1,2-Trichloroethane	21.9		µg/l		20.0		109	70-130		
Trichloroethene	20.5		µg/l		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	20.1		µg/l		20.0		101	65.3-144		
1,2,3-Trichloropropane	22.5		µg/l		20.0		112	70-130		
1,2,4-Trimethylbenzene	19.2		µg/l		20.0		96	70-130		
1,3,5-Trimethylbenzene	18.8		µg/l		20.0		94	70-130		
Vinyl chloride	25.6		µg/l		20.0		128	70-130		
m,p-Xylene	39.7		µg/l		40.0		99	70-130		
o-Xylene	20.5		µg/l		20.0		103	70-130		
Tetrahydrofuran	20.2		µg/l		20.0		101	70-130		
Ethyl ether	21.3		µg/l		20.0		106	70-132		
Tert-amyl methyl ether	19.2		µg/l		20.0		96	70-130		
Ethyl tert-butyl ether	21.7		µg/l		20.0		109	70-130		
Di-isopropyl ether	18.2		µg/l		20.0		91	70-130		
Tert-Butanol / butyl alcohol	124	QC1	µg/l		200		62	70-130		
1,4-Dioxane	194		µg/l		200		97	43.1-144		
trans-1,4-Dichloro-2-butene	19.6		µg/l		20.0		98	70-130		
Ethanol	472		µg/l		400		118	70-130		
Surrogate: 4-Bromofluorobenzene	53.6		µg/l		50.0		107	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.0		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	50.0		µg/l		50.0		100	70-130		
<u>LCS Dup (8081178-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.6		µg/l		20.0		78	70-130	4	25
Acetone	21.4		µg/l		20.0		107	5.22-177	3	50

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>LCS Dup (8081178-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
Acrylonitrile	22.8	QR5	µg/l		20.0		114	70-130	62	25
Benzene	20.2		µg/l		20.0		101	70-130	7	25
Bromobenzene	19.8		µg/l		20.0		99	70-130	4	25
Bromochloromethane	19.7		µg/l		20.0		98	70-130	6	25
Bromodichloromethane	20.2		µg/l		20.0		101	70-130	5	25
Bromoform	19.8		µg/l		20.0		99	70-130	4	25
Bromomethane	18.3		µg/l		20.0		91	20.3-173	3	50
2-Butanone (MEK)	21.7		µg/l		20.0		109	40.1-155	3	50
n-Butylbenzene	18.0		µg/l		20.0		90	70-130	6	25
sec-Butylbenzene	18.6		µg/l		20.0		93	70-130	6	25
tert-Butylbenzene	17.7		µg/l		20.0		88	70-130	7	25
Carbon disulfide	11.3	QC2	µg/l		20.0		56	70-130	14	25
Carbon tetrachloride	18.8		µg/l		20.0		94	70-130	7	25
Chlorobenzene	19.2		µg/l		20.0		96	70-130	7	25
Chloroethane	17.4		µg/l		20.0		87	58.8-137	7	50
Chloroform	20.5		µg/l		20.0		103	70-130	8	25
Chloromethane	22.2		µg/l		20.0		111	70-130	10	25
2-Chlorotoluene	19.3		µg/l		20.0		97	70-130	7	25
4-Chlorotoluene	18.8		µg/l		20.0		94	70-130	7	25
1,2-Dibromo-3-chloropropane	19.5		µg/l		20.0		97	70-130	0.8	25
Dibromochloromethane	20.0		µg/l		20.0		100	70-150	4	50
1,2-Dibromoethane (EDB)	20.7		µg/l		20.0		104	70-130	3	25
Dibromomethane	19.9		µg/l		20.0		99	70-130	2	25
1,2-Dichlorobenzene	20.9		µg/l		20.0		104	70-130	5	25
1,3-Dichlorobenzene	20.9		µg/l		20.0		104	70-130	7	25
1,4-Dichlorobenzene	18.1		µg/l		20.0		91	70-130	6	25
Dichlorodifluoromethane (Freon12)	19.9		µg/l		20.0		100	40.4-181	9	50
1,1-Dichloroethane	20.7		µg/l		20.0		104	70-130	5	25
1,2-Dichloroethane	19.9		µg/l		20.0		100	70-130	4	25
1,1-Dichloroethene	20.8	QR5	µg/l		20.0		104	70-130	41	25
cis-1,2-Dichloroethene	20.1		µg/l		20.0		100	70-130	6	25
trans-1,2-Dichloroethene	25.0		µg/l		20.0		125	70-130	7	25
1,2-Dichloropropane	20.1		µg/l		20.0		101	70-130	4	25
1,3-Dichloropropane	21.1		µg/l		20.0		105	70-130	4	25
2,2-Dichloropropane	18.6		µg/l		20.0		93	70-130	13	25
1,1-Dichloropropene	19.1		µg/l		20.0		96	70-130	8	25
cis-1,3-Dichloropropene	17.9		µg/l		20.0		90	70-130	4	25
trans-1,3-Dichloropropene	18.1		µg/l		20.0		91	70-130	4	25
Ethylbenzene	17.7		µg/l		20.0		89	70-130	6	25
Hexachlorobutadiene	17.2		µg/l		20.0		86	65.3-143	9	50
2-Hexanone (MBK)	17.2		µg/l		20.0		86	70-130	6	25
Isopropylbenzene	18.5		µg/l		20.0		92	70-130	7	25
4-Isopropyltoluene	17.8		µg/l		20.0		89	70-130	6	25
Methyl tert-butyl ether	21.2		µg/l		20.0		106	70-130	3	25
4-Methyl-2-pentanone (MIBK)	18.9		µg/l		20.0		95	43.7-137	0.3	50
Methylene chloride	22.9	QR5	µg/l		20.0		115	70-130	50	25
Naphthalene	16.5		µg/l		20.0		83	70-130	4	25
n-Propylbenzene	17.0		µg/l		20.0		85	70-130	7	25
Styrene	18.0		µg/l		20.0		90	70-130	5	25

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>LCS Dup (8081178-BSD1)</u>										
Prepared & Analyzed: 15-Aug-08										
1,1,1,2-Tetrachloroethane	19.8		µg/l		20.0		99	70-130	5	25
1,1,2,2-Tetrachloroethane	20.9		µg/l		20.0		104	70-130	2	25
Tetrachloroethene	17.7		µg/l		20.0		89	70-130	10	25
Toluene	19.9		µg/l		20.0		100	70-130	5	25
1,2,3-Trichlorobenzene	17.6		µg/l		20.0		88	70-130	7	25
1,2,4-Trichlorobenzene	16.6		µg/l		20.0		83	70-130	5	25
1,3,5-Trichlorobenzene	16.5		µg/l		20.0		82	70-130	5	25
1,1,1-Trichloroethane	18.4		µg/l		20.0		92	70-130	8	25
1,1,2-Trichloroethane	21.2		µg/l		20.0		106	70-130	3	25
Trichloroethene	19.2		µg/l		20.0		96	70-130	6	25
Trichlorofluoromethane (Freon 11)	18.1		µg/l		20.0		91	65.3-144	10	50
1,2,3-Trichloropropane	22.4		µg/l		20.0		112	70-130	0.3	25
1,2,4-Trimethylbenzene	18.0		µg/l		20.0		90	70-130	7	25
1,3,5-Trimethylbenzene	17.7		µg/l		20.0		88	70-130	6	25
Vinyl chloride	22.2		µg/l		20.0		111	70-130	14	25
m,p-Xylene	37.1		µg/l		40.0		93	70-130	7	25
o-Xylene	19.3		µg/l		20.0		96	70-130	6	25
Tetrahydrofuran	19.1		µg/l		20.0		96	70-130	5	25
Ethyl ether	20.9		µg/l		20.0		105	70-132	2	50
Tert-amyl methyl ether	18.7		µg/l		20.0		93	70-130	3	25
Ethyl tert-butyl ether	20.6		µg/l		20.0		103	70-130	5	25
Di-isopropyl ether	17.4		µg/l		20.0		87	70-130	4	25
Tert-Butanol / butyl alcohol	215	QR5	µg/l		200		108	70-130	54	25
1,4-Dioxane	171		µg/l		200		86	43.1-144	12	25
trans-1,4-Dichloro-2-butene	18.9		µg/l		20.0		95	70-130	3	25
Ethanol	489		µg/l		400		122	70-130	3	30
Surrogate: 4-Bromofluorobenzene	52.8		µg/l		50.0		106	70-130		
Surrogate: Toluene-d8	51.3		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/l		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.9		µg/l		50.0		100	70-130		
<u>Matrix Spike (8081178-MS1)</u> Source: SA83154-03										
Prepared & Analyzed: 15-Aug-08										
Benzene	14.6		µg/l		20.0	BRL	73	70-130		
Chlorobenzene	15.5		µg/l		20.0	BRL	78	70-130		
1,1-Dichloroethene	7.3	QM7	µg/l		20.0	BRL	36	70-130		
Toluene	15.7		µg/l		20.0	BRL	79	70-130		
Trichloroethene	15.4		µg/l		20.0	BRL	77	70-130		
Surrogate: 4-Bromofluorobenzene	53.9		µg/l		50.0		108	70-130		
Surrogate: Toluene-d8	52.1		µg/l		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.1		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	51.2		µg/l		50.0		102	70-130		
<u>Matrix Spike Dup (8081178-MSD1)</u> Source: SA83154-03										
Prepared & Analyzed: 15-Aug-08										
Benzene	14.3		µg/l		20.0	BRL	71	70-130	2	30
Chlorobenzene	15.4		µg/l		20.0	BRL	77	70-130	1	30
1,1-Dichloroethene	10.2	QM7	µg/l		20.0	BRL	51	70-130	34	30
Toluene	15.6		µg/l		20.0	BRL	78	70-130	0.4	30
Trichloroethene	15.3		µg/l		20.0	BRL	76	70-130	0.8	30
Surrogate: 4-Bromofluorobenzene	53.0		µg/l		50.0		106	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081178 - SW846 5030 Water MS										
<u>Matrix Spike Dup (8081178-MSD1)</u> Source: SA83154-03										
Prepared & Analyzed: 15-Aug-08										
Surrogate: 1,2-Dichloroethane-d4	50.4		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	50.3		µg/l		50.0		101	70-130		
Batch 8081572 - VPH - EPA 5030B										
<u>Blank (8081572-BLK1)</u>										
Prepared & Analyzed: 20-Aug-08										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
Benzene	BRL		µg/l	5.0						
Ethylbenzene	BRL		µg/l	5.0						
Methyl tert-butyl ether	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
m,p-Xylene	BRL		µg/l	10.0						
o-Xylene	BRL		µg/l	5.0						
2-Methylpentane	BRL		µg/l	5.0						
n-Nonane	BRL		µg/l	10.0						
n-Pentane	BRL		µg/l	10.0						
1,2,4-Trimethylbenzene	BRL		µg/l	5.0						
2,2,4-Trimethylpentane	BRL		µg/l	5.0						
n-Butylcyclohexane	BRL		µg/l	5.0						
n-Decane	BRL		µg/l	5.0						
Surrogate: 2,5-Dibromotoluene (FID)	47.9		µg/l		50.0		96	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	47.2		µg/l		50.0		94	70-130		
<u>LCS (8081572-BS1)</u>										
Prepared & Analyzed: 20-Aug-08										
C5-C8 Aliphatic Hydrocarbons	107		mg/l		140		77	70-130		
C9-C12 Aliphatic Hydrocarbons	62.7		mg/l		55.2		114	70-130		
C9-C10 Aromatic Hydrocarbons	36.8		mg/l		40.0		92	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	257		mg/l		280		92	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	99.5		mg/l		84.8		117	70-130		
Benzene	19.9		µg/l		20.0		100	70-130		
Ethylbenzene	21.2		µg/l		20.0		106	70-130		
Methyl tert-butyl ether	23.7		µg/l		20.0		118	70-130		
Naphthalene	18.1		µg/l		20.0		91	70-130		
Toluene	19.9		µg/l		20.0		100	70-130		
m,p-Xylene	43.5		µg/l		40.0		109	70-130		
o-Xylene	21.8		µg/l		20.0		109	70-130		
2-Methylpentane	18.8		µg/l		20.0		94	70-130		
n-Nonane	22.7		µg/l		20.0		113	70-130		
n-Pentane	15.6		µg/l		20.0		78	70-130		
1,2,4-Trimethylbenzene	19.2		µg/l		20.0		96	70-130		
2,2,4-Trimethylpentane	22.1		µg/l		20.0		111	70-130		
n-Butylcyclohexane	24.1		µg/l		20.0		120	70-130		
n-Decane	23.7		µg/l		20.0		119	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	52.5		µg/l		50.0		105	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	50.7		µg/l		50.0		101	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081572 - VPH - EPA 5030B										
<u>LCS Dup (8081572-BSD1)</u>										
Prepared & Analyzed: 20-Aug-08										
C5-C8 Aliphatic Hydrocarbons	110		mg/l		140		78	70-130	2	25
C9-C12 Aliphatic Hydrocarbons	59.5		mg/l		55.2		108	70-130	5	25
C9-C10 Aromatic Hydrocarbons	34.8		mg/l		40.0		87	70-130	6	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	254		mg/l		280		91	70-130	1	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	94.3		mg/l		84.8		111	70-130	5	25
Benzene	19.4		µg/l		20.0		97	70-130	3	25
Ethylbenzene	20.1		µg/l		20.0		100	70-130	6	25
Methyl tert-butyl ether	23.3		µg/l		20.0		117	70-130	2	25
Naphthalene	17.9		µg/l		20.0		89	70-130	1	25
Toluene	19.6		µg/l		20.0		98	70-130	2	25
m,p-Xylene	40.8		µg/l		40.0		102	70-130	7	25
o-Xylene	20.8		µg/l		20.0		104	70-130	5	25
2-Methylpentane	19.0		µg/l		20.0		95	70-130	0.8	25
n-Nonane	21.0		µg/l		20.0		105	70-130	8	25
n-Pentane	14.7		µg/l		20.0		73	70-130	6	25
1,2,4-Trimethylbenzene	19.0		µg/l		20.0		95	70-130	1	25
2,2,4-Trimethylpentane	20.7		µg/l		20.0		104	70-130	7	25
n-Butylcyclohexane	22.3		µg/l		20.0		111	70-130	8	25
n-Decane	19.4		µg/l		20.0		97	70-130	20	25
Surrogate: 2,5-Dibromotoluene (FID)	51.7		µg/l		50.0		103	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	50.6		µg/l		50.0		101	70-130		
<u>Duplicate (8081572-DUP1)</u> Source: SA82865-01										
Prepared & Analyzed: 20-Aug-08										
C5-C8 Aliphatic Hydrocarbons	0.00731	J	mg/l	0.0750		0.00756			3	50
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
Unadjusted C5-C8 Aliphatic Hydrocarbons	0.00731	J	mg/l	0.0750		0.00756			3	50
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250		BRL				50
Benzene	BRL		µg/l	5.0		BRL				50
Ethylbenzene	BRL		µg/l	5.0		BRL				50
Methyl tert-butyl ether	BRL		µg/l	5.0		BRL				50
Naphthalene	BRL		µg/l	5.0		BRL				50
Toluene	BRL		µg/l	5.0		BRL				50
m,p-Xylene	BRL		µg/l	10.0		BRL				50
o-Xylene	BRL		µg/l	5.0		BRL				50
Surrogate: 2,5-Dibromotoluene (FID)	50.5		µg/l		50.0		101	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	49.7		µg/l		50.0		99	70-130		
<u>Matrix Spike (8081572-MS1)</u> Source: SA82865-01										
Prepared & Analyzed: 20-Aug-08										
Benzene	18.7		µg/l		20.0	BRL	94	70-130		
Ethylbenzene	17.2		µg/l		20.0	BRL	86	70-130		
Methyl tert-butyl ether	22.8		µg/l		20.0	BRL	114	70-130		
Naphthalene	16.4		µg/l		20.0	BRL	82	70-130		
Toluene	16.8		µg/l		20.0	BRL	84	70-130		
m,p-Xylene	35.9		µg/l		40.0	BRL	90	70-130		
o-Xylene	18.5		µg/l		20.0	BRL	93	70-130		
2-Methylpentane	17.8		µg/l		20.0	BRL	89	70-130		
n-Nonane	18.5		µg/l		20.0	BRL	92	70-130		
n-Pentane	14.5		µg/l		20.0	BRL	73	70-130		
1,2,4-Trimethylbenzene	17.6		µg/l		20.0	BRL	88	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081572 - VPH - EPA 5030B										
Matrix Spike (8081572-MS1) Source: SA82865-01										
Prepared & Analyzed: 20-Aug-08										
2,2,4-Trimethylpentane	17.4		µg/l		20.0	BRL	87	70-130		
n-Butylcyclohexane	20.0		µg/l		20.0	BRL	100	70-130		
n-Decane	17.7		µg/l		20.0	BRL	88	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	50.8		µg/l		50.0		102	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	48.8		µg/l		50.0		98	70-130		
Batch 8081646 - SW846 5030 Water MS										
Blank (8081646-BLK1)										
Prepared & Analyzed: 21-Aug-08										
Benzene	BRL		µg/l	1.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroform	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	44.1		µg/l		50.0		88	70-130		
Surrogate: Toluene-d8	50.7		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.5		µg/l		50.0		113	70-130		
Surrogate: Dibromofluoromethane	53.8		µg/l		50.0		108	70-130		
Blank (8081646-BLK2) Z-2										
Prepared & Analyzed: 21-Aug-08										
Benzene	BRL		µg/l	5.0						
2-Butanone (MEK)	BRL		µg/l	50.0						
Carbon tetrachloride	BRL		µg/l	5.0						
Chlorobenzene	BRL		µg/l	5.0						
Chloroform	BRL		µg/l	5.0						
1,2-Dichloroethane	BRL		µg/l	5.0						
1,1-Dichloroethene	BRL		µg/l	5.0						
Tetrachloroethene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
Trichloroethene	BRL		µg/l	5.0						
Vinyl chloride	BRL		µg/l	5.0						
Surrogate: 4-Bromofluorobenzene	45.2		µg/l		50.0		90	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.3		µg/l		50.0		103	70-130		
Surrogate: Dibromofluoromethane	50.7		µg/l		50.0		101	70-130		
LCS (8081646-BS1)										
Prepared & Analyzed: 21-Aug-08										
Benzene	19.8		µg/l		20.0		99	70-130		
2-Butanone (MEK)	19.9		µg/l		20.0		99	70-130		
Carbon tetrachloride	20.7		µg/l		20.0		103	70-130		
Chlorobenzene	19.1		µg/l		20.0		95	70-130		
Chloroform	20.6		µg/l		20.0		103	70-130		
1,2-Dichloroethane	19.6		µg/l		20.0		98	70-130		
1,1-Dichloroethene	21.8		µg/l		20.0		109	70-130		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081646 - SW846 5030 Water MS										
<u>LCS (8081646-BS1)</u>										
Prepared & Analyzed: 21-Aug-08										
Tetrachloroethene	19.7		µg/l		20.0		99	70-130		
Trichloroethene	18.4		µg/l		20.0		92	70-130		
Vinyl chloride	28.5	QC1	µg/l		20.0		143	70-130		
Surrogate: 4-Bromofluorobenzene	52.7		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.2		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	51.1		µg/l		50.0		102	70-130		
<u>LCS Dup (8081646-BSD1)</u>										
Prepared & Analyzed: 21-Aug-08										
Benzene	19.2		µg/l		20.0		96	70-130	3	30
2-Butanone (MEK)	16.0		µg/l		20.0		80	70-130	22	30
Carbon tetrachloride	21.0		µg/l		20.0		105	70-130	1	30
Chlorobenzene	18.1		µg/l		20.0		91	70-130	5	30
Chloroform	20.0		µg/l		20.0		100	70-130	3	30
1,2-Dichloroethane	19.4		µg/l		20.0		97	70-130	1	30
1,1-Dichloroethene	20.0		µg/l		20.0		100	70-130	8	30
Tetrachloroethene	18.9		µg/l		20.0		94	70-130	4	30
Trichloroethene	16.1		µg/l		20.0		81	70-130	13	30
Vinyl chloride	24.4		µg/l		20.0		122	70-130	16	30
Surrogate: 4-Bromofluorobenzene	51.5		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	49.2		µg/l		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.4		µg/l		50.0		103	70-130		
Surrogate: Dibromofluoromethane	50.7		µg/l		50.0		101	70-130		
<u>Matrix Spike (8081646-MS1)</u> Source: SA83277-01										
Prepared & Analyzed: 21-Aug-08										
Benzene	9.8	QM7	µg/l		20.0	BRL	49	70-130		
Chlorobenzene	23.2		µg/l		20.0	BRL	116	70-130		
1,1-Dichloroethene	10.0	QM7	µg/l		20.0	BRL	50	70-130		
Toluene	14.7		µg/l		20.0	BRL	73	70-130		
Trichloroethene	32.5	QM7	µg/l		20.0	21.9	53	70-130		
Surrogate: 4-Bromofluorobenzene	51.8		µg/l		50.0		104	70-130		
Surrogate: Toluene-d8	49.8		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.2		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	52.0		µg/l		50.0		104	70-130		
<u>Matrix Spike Dup (8081646-MSD1)</u> Source: SA83277-01										
Prepared & Analyzed: 21-Aug-08										
Benzene	10.9	QM7	µg/l		20.0	BRL	54	70-130	11	30
Chlorobenzene	22.5		µg/l		20.0	BRL	112	70-130	3	30
1,1-Dichloroethene	11.1	QM7	µg/l		20.0	BRL	56	70-130	11	30
Toluene	15.0		µg/l		20.0	BRL	75	70-130	2	30
Trichloroethene	30.7	QM7	µg/l		20.0	21.9	44	70-130	19	30
Surrogate: 4-Bromofluorobenzene	50.9		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	50.0		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.1		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	51.2		µg/l		50.0		102	70-130		
Batch 8082222 - SW846 5030 Water MS										
<u>Blank (8082222-BLK1)</u>										
Prepared & Analyzed: 28-Aug-08										
Benzene	BRL		µg/l	1.0						
2-Butanone (MEK)	BRL		µg/l	10.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8082222 - SW846 5030 Water MS										
<u>Blank (8082222-BLK1)</u>										
Prepared & Analyzed: 28-Aug-08										
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroform	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	46.8		µg/l		50.0		94	70-130		
Surrogate: Toluene-d8	50.9		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.1		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	50.9		µg/l		50.0		102	70-130		
<u>Blank (8082222-BLK2)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Benzene	BRL		µg/l	5.0						
2-Butanone (MEK)	BRL		µg/l	50.0						
Carbon tetrachloride	BRL		µg/l	5.0						
Chlorobenzene	BRL		µg/l	5.0						
Chloroform	BRL		µg/l	5.0						
1,2-Dichloroethane	BRL		µg/l	5.0						
1,1-Dichloroethene	BRL		µg/l	5.0						
Tetrachloroethene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
Trichloroethene	BRL		µg/l	5.0						
Vinyl chloride	BRL		µg/l	5.0						
Surrogate: 4-Bromofluorobenzene	45.3		µg/l		50.0		91	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	52.0		µg/l		50.0		104	70-130		
<u>Blank (8082222-BLK3)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Benzene	BRL		µg/l	5.0						
2-Butanone (MEK)	BRL		µg/l	50.0						
Carbon tetrachloride	BRL		µg/l	5.0						
Chlorobenzene	BRL		µg/l	5.0						
Chloroform	BRL		µg/l	5.0						
1,2-Dichloroethane	BRL		µg/l	5.0						
1,1-Dichloroethene	BRL		µg/l	5.0						
Tetrachloroethene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
Trichloroethene	BRL		µg/l	5.0						
Vinyl chloride	BRL		µg/l	5.0						
Surrogate: 4-Bromofluorobenzene	46.2		µg/l		50.0		92	70-130		
Surrogate: Toluene-d8	51.7		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.6		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	52.5		µg/l		50.0		105	70-130		
<u>Blank (8082222-BLK4)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Benzene	BRL		µg/l	5.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8082222 - SW846 5030 Water MS										
<u>Blank (8082222-BLK4)</u>										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
2-Butanone (MEK)	BRL		µg/l	50.0						
Carbon tetrachloride	BRL		µg/l	5.0						
Chlorobenzene	BRL		µg/l	5.0						
Chloroform	BRL		µg/l	5.0						
1,2-Dichloroethane	BRL		µg/l	5.0						
1,1-Dichloroethene	BRL		µg/l	5.0						
Tetrachloroethene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
Trichloroethene	BRL		µg/l	5.0						
Vinyl chloride	BRL		µg/l	5.0						
Surrogate: 4-Bromofluorobenzene	46.5		µg/l		50.0		93	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.8		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	52.2		µg/l		50.0		104	70-130		
<u>LCS (8082222-BS1)</u>										
Prepared & Analyzed: 28-Aug-08										
Benzene	20.4		µg/l		20.0		102	70-130		
2-Butanone (MEK)	22.2		µg/l		20.0		111	70-130		
Carbon tetrachloride	19.2		µg/l		20.0		96	70-130		
Chlorobenzene	21.0		µg/l		20.0		105	70-130		
Chloroform	21.0		µg/l		20.0		105	70-130		
1,2-Dichloroethane	20.2		µg/l		20.0		101	70-130		
1,1-Dichloroethene	24.3		µg/l		20.0		122	70-130		
Tetrachloroethene	21.0		µg/l		20.0		105	70-130		
Trichloroethene	19.7		µg/l		20.0		98	70-130		
Vinyl chloride	23.0		µg/l		20.0		115	70-130		
Surrogate: 4-Bromofluorobenzene	47.8		µg/l		50.0		96	70-130		
Surrogate: Toluene-d8	50.5		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.0		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	51.3		µg/l		50.0		103	70-130		
<u>LCS Dup (8082222-BSD1)</u>										
Prepared & Analyzed: 28-Aug-08										
Benzene	19.5		µg/l		20.0		98	70-130	4	30
2-Butanone (MEK)	21.4		µg/l		20.0		107	70-130	4	30
Carbon tetrachloride	18.1		µg/l		20.0		91	70-130	6	30
Chlorobenzene	19.8		µg/l		20.0		99	70-130	6	30
Chloroform	20.3		µg/l		20.0		102	70-130	4	30
1,2-Dichloroethane	19.9		µg/l		20.0		99	70-130	2	30
1,1-Dichloroethene	22.9		µg/l		20.0		114	70-130	6	30
Tetrachloroethene	19.8		µg/l		20.0		99	70-130	6	30
Trichloroethene	18.7		µg/l		20.0		94	70-130	5	30
Vinyl chloride	21.7		µg/l		20.0		109	70-130	6	30
Surrogate: 4-Bromofluorobenzene	48.1		µg/l		50.0		96	70-130		
Surrogate: Toluene-d8	50.8		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.9		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	51.6		µg/l		50.0		103	70-130		
<u>Matrix Spike (8082222-MS1)</u> Source: SA83706-06										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Benzene	17.6		µg/l		20.0	BRL	88	70-130		
Chlorobenzene	18.4		µg/l		20.0	BRL	92	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8082222 - SW846 5030 Water MS										
<u>Matrix Spike (8082222-MS1)</u> Source: SA83706-06										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
1,1-Dichloroethene	20.4		µg/l		20.0	BRL	102	70-130		
Toluene	17.8		µg/l		20.0	BRL	89	70-130		
Trichloroethene	17.7		µg/l		20.0	BRL	89	70-130		
Surrogate: 4-Bromofluorobenzene	49.1		µg/l		50.0		98	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	51.6		µg/l		50.0		103	70-130		
<u>Matrix Spike Dup (8082222-MSD1)</u> Source: SA83706-06										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Benzene	17.4		µg/l		20.0	BRL	87	70-130	1	30
Chlorobenzene	18.4		µg/l		20.0	BRL	92	70-130	0	30
1,1-Dichloroethene	20.5		µg/l		20.0	BRL	102	70-130	0.4	30
Toluene	17.7		µg/l		20.0	BRL	89	70-130	0.6	30
Trichloroethene	17.8		µg/l		20.0	BRL	89	70-130	0.6	30
Surrogate: 4-Bromofluorobenzene	48.7		µg/l		50.0		97	70-130		
Surrogate: Toluene-d8	51.5		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.3		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	51.6		µg/l		50.0		103	70-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080963 - SW846 3510C										
<u>Blank (8080963-BLK1)</u>										
Prepared & Analyzed: 13-Aug-08										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Atrazine	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080963 - SW846 3510C										
<u>Blank (8080963-BLK1)</u>										
Prepared & Analyzed: 13-Aug-08										
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	20.0						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	20.0						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	20.0						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1-Methylnaphthalene	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Pentachloronitrobenzene	BRL		µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	45.2		µg/l		50.0		90	30-130		
Surrogate: 2-Fluorophenol	44.2		µg/l		50.0		88	15-110		
Surrogate: Nitrobenzene-d5	41.9		µg/l		50.0		84	30-130		
Surrogate: Phenol-d5	46.5		µg/l		50.0		93	15-110		
Surrogate: Terphenyl-d14	38.9		µg/l		50.0		78	30-130		
Surrogate: 2,4,6-Tribromophenol	43.2		µg/l		50.0		86	15-110		
<u>LCS (8080963-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Acenaphthene	42.5		µg/l	5.00	50.0		85	40-130		
Acenaphthylene	43.3		µg/l	5.00	50.0		87	40-130		
Aniline	42.2		µg/l	5.00	50.0		84	40-130		
Anthracene	49.3		µg/l	5.00	50.0		99	40-130		
Atrazine	53.6		µg/l	5.00	50.0		107	40-130		
Azobenzene/Diphenyldiazine	61.5		µg/l	5.00	50.0		123	40-130		
Benzidine	37.9		µg/l	5.00	50.0		76	0-194		
Benzo (a) anthracene	35.3		µg/l	5.00	50.0		71	40-130		
Benzo (a) pyrene	34.4		µg/l	5.00	50.0		69	40-130		
Benzo (b) fluoranthene	32.8		µg/l	5.00	50.0		66	40-130		
Benzo (g,h,i) perylene	28.1		µg/l	5.00	50.0		56	40-130		
Benzo (k) fluoranthene	37.9		µg/l	5.00	50.0		76	40-130		
Benzoic acid	36.1		µg/l	5.00	50.0		72	42.5-130		
Benzyl alcohol	28.4		µg/l	5.00	50.0		57	40-130		
Bis(2-chloroethoxy)methane	39.2		µg/l	5.00	50.0		78	40-130		
Bis(2-chloroethyl)ether	38.7		µg/l	5.00	50.0		77	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080963 - SW846 3510C										
<u>LCS (8080963-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Bis(2-chloroisopropyl)ether	66.2	QC2	µg/l	5.00	50.0		132	40-130		
Bis(2-ethylhexyl)phthalate	41.4		µg/l	5.00	50.0		83	40-130		
4-Bromophenyl phenyl ether	44.5	QC2	µg/l	5.00	50.0		89	40-130		
Butyl benzyl phthalate	40.0		µg/l	5.00	50.0		80	40-130		
Carbazole	71.5	QC2	µg/l	5.00	50.0		143	40-130		
4-Chloro-3-methylphenol	37.3		µg/l	5.00	50.0		75	40-130		
4-Chloroaniline	36.2	QC2	µg/l	5.00	50.0		72	40-130		
2-Chloronaphthalene	38.9		µg/l	5.00	50.0		78	40-130		
2-Chlorophenol	34.1	QC2	µg/l	5.00	50.0		68	40-130		
4-Chlorophenyl phenyl ether	45.3		µg/l	5.00	50.0		91	40-130		
Chrysene	35.3	QC2	µg/l	5.00	50.0		71	40-130		
Dibenzo (a,h) anthracene	31.4		µg/l	5.00	50.0		63	40-130		
Dibenzofuran	41.2	QC2	µg/l	5.00	50.0		82	40-130		
1,2-Dichlorobenzene	31.8		µg/l	5.00	50.0		64	40-130		
1,3-Dichlorobenzene	31.1	QC2	µg/l	5.00	50.0		62	40-130		
1,4-Dichlorobenzene	34.0		µg/l	5.00	50.0		68	40-130		
3,3'-Dichlorobenzidine	49.7	QC2	µg/l	5.00	50.0		99	40-130		
2,4-Dichlorophenol	32.6		µg/l	5.00	50.0		65	40-130		
Diethyl phthalate	47.0	QC2	µg/l	5.00	50.0		94	40-130		
Dimethyl phthalate	44.1		µg/l	5.00	50.0		88	40-130		
2,4-Dimethylphenol	34.9	QC2	µg/l	5.00	50.0		70	40-130		
Di-n-butyl phthalate	53.2		µg/l	5.00	50.0		106	40-130		
4,6-Dinitro-2-methylphenol	27.8	QC2	µg/l	5.00	50.0		56	40-130		
2,4-Dinitrophenol	21.7		µg/l	5.00	50.0		43	40-130		
2,4-Dinitrotoluene	38.0	QC2	µg/l	5.00	50.0		76	40-130		
2,6-Dinitrotoluene	38.8		µg/l	5.00	50.0		78	40-130		
Di-n-octyl phthalate	44.0	QC2	µg/l	5.00	50.0		88	40-130		
Fluoranthene	47.0		µg/l	5.00	50.0		94	40-130		
Fluorene	45.5	QC2	µg/l	5.00	50.0		91	40-130		
Hexachlorobenzene	42.0		µg/l	5.00	50.0		84	40-130		
Hexachlorobutadiene	31.3	QC2	µg/l	5.00	50.0		63	40-130		
Hexachlorocyclopentadiene	20.2		µg/l	5.00	50.0		40	40-130		
Hexachloroethane	33.9	QC2	µg/l	5.00	50.0		68	40-130		
Indeno (1,2,3-cd) pyrene	29.1		µg/l	5.00	50.0		58	40-130		
Isophorone	38.5	QC2	µg/l	5.00	50.0		77	40-130		
2-Methylnaphthalene	35.1		µg/l	5.00	50.0		70	40-130		
2-Methylphenol	35.7	QC2	µg/l	5.00	50.0		71	40-130		
3 & 4-Methylphenol	39.6		µg/l	10.0	50.0		79	40-130		
Naphthalene	36.6	QC2	µg/l	5.00	50.0		73	40-130		
2-Nitroaniline	39.6		µg/l	5.00	50.0		79	40-130		
3-Nitroaniline	55.0	QC2	µg/l	5.00	50.0		110	40-130		
4-Nitroaniline	46.8		µg/l	20.0	50.0		94	40-130		
Nitrobenzene	39.2	QC2	µg/l	5.00	50.0		78	40-130		
2-Nitrophenol	31.2		µg/l	5.00	50.0		62	40-130		
4-Nitrophenol	40.2	QC2	µg/l	20.0	50.0		80	40-130		
N-Nitrosodimethylamine	39.4		µg/l	5.00	50.0		79	40-130		
N-Nitrosodi-n-propylamine	39.8	QC2	µg/l	5.00	50.0		80	40-130		
N-Nitrosodiphenylamine	53.9		µg/l	5.00	50.0		108	40-130		
Pentachlorophenol	46.7	QC2	µg/l	20.0	50.0		93	40-130		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080963 - SW846 3510C										
<u>LCS (8080963-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Phenanthrene	48.4		µg/l	5.00	50.0		97	40-130		
Phenol	41.9		µg/l	5.00	50.0		84	40-130		
Pyrene	35.9		µg/l	5.00	50.0		72	40-130		
Pyridine	32.6		µg/l	5.00	50.0		65	0-138		
1-Methylnaphthalene	40.9		µg/l	5.00	50.0		82	40-140		
1,2,4-Trichlorobenzene	30.2		µg/l	5.00	50.0		60	40-130		
2,4,5-Trichlorophenol	35.7		µg/l	5.00	50.0		71	40-130		
2,4,6-Trichlorophenol	39.0		µg/l	5.00	50.0		78	40-130		
Pentachloronitrobenzene	42.5		µg/l	5.00	50.0		85	40-140		
1,2,4,5-Tetrachlorobenzene	34.7		µg/l	5.00	50.0		69	40-140		
Surrogate: 2-Fluorobiphenyl	40.8		µg/l		50.0		82	30-130		
Surrogate: 2-Fluorophenol	35.1		µg/l		50.0		70	15-110		
Surrogate: Nitrobenzene-d5	39.9		µg/l		50.0		80	30-130		
Surrogate: Phenol-d5	39.0		µg/l		50.0		78	15-110		
Surrogate: Terphenyl-d14	33.6		µg/l		50.0		67	30-130		
Surrogate: 2,4,6-Tribromophenol	45.2		µg/l		50.0		90	15-110		
Batch 8081282 - SW846 3545A										
<u>Blank (8081282-BLK1)</u>										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Acenaphthene	BRL		µg/kg wet	330						
Acenaphthylene	BRL		µg/kg wet	330						
Aniline	BRL		µg/kg wet	330						
Anthracene	BRL		µg/kg wet	330						
Atrazine	BRL		µg/kg wet	330						
Azobenzene/Diphenyldiazine	BRL		µg/kg wet	330						
Benzidine	BRL		µg/kg wet	330						
Benzo (a) anthracene	BRL		µg/kg wet	330						
Benzo (a) pyrene	BRL		µg/kg wet	330						
Benzo (b) fluoranthene	BRL		µg/kg wet	330						
Benzo (g,h,i) perylene	BRL		µg/kg wet	330						
Benzo (k) fluoranthene	BRL		µg/kg wet	330						
Benzoic acid	BRL		µg/kg wet	330						
Benzyl alcohol	BRL		µg/kg wet	330						
Bis(2-chloroethoxy)methane	BRL		µg/kg wet	330						
Bis(2-chloroethyl)ether	BRL		µg/kg wet	330						
Bis(2-chloroisopropyl)ether	BRL		µg/kg wet	330						
Bis(2-ethylhexyl)phthalate	BRL		µg/kg wet	330						
4-Bromophenyl phenyl ether	BRL		µg/kg wet	330						
Butyl benzyl phthalate	BRL		µg/kg wet	330						
Carbazole	BRL		µg/kg wet	330						
4-Chloro-3-methylphenol	BRL		µg/kg wet	330						
4-Chloroaniline	BRL		µg/kg wet	330						
2-Chloronaphthalene	BRL		µg/kg wet	330						
2-Chlorophenol	BRL		µg/kg wet	330						
4-Chlorophenyl phenyl ether	BRL		µg/kg wet	330						
Chrysene	BRL		µg/kg wet	330						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	330						
Dibenzofuran	BRL		µg/kg wet	330						
1,2-Dichlorobenzene	BRL		µg/kg wet	330						
1,3-Dichlorobenzene	BRL		µg/kg wet	330						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
Blank (8081282-BLK1)										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
1,4-Dichlorobenzene	BRL		µg/kg wet	330						
3,3'-Dichlorobenzidine	BRL		µg/kg wet	330						
2,4-Dichlorophenol	BRL		µg/kg wet	330						
Diethyl phthalate	BRL		µg/kg wet	330						
Dimethyl phthalate	BRL		µg/kg wet	330						
2,4-Dimethylphenol	BRL		µg/kg wet	330						
Di-n-butyl phthalate	BRL		µg/kg wet	330						
4,6-Dinitro-2-methylphenol	BRL		µg/kg wet	330						
2,4-Dinitrophenol	BRL		µg/kg wet	330						
2,4-Dinitrotoluene	BRL		µg/kg wet	330						
2,6-Dinitrotoluene	BRL		µg/kg wet	330						
Di-n-octyl phthalate	BRL		µg/kg wet	330						
Fluoranthene	BRL		µg/kg wet	330						
Fluorene	BRL		µg/kg wet	330						
Hexachlorobenzene	BRL		µg/kg wet	330						
Hexachlorobutadiene	BRL		µg/kg wet	330						
Hexachlorocyclopentadiene	BRL		µg/kg wet	330						
Hexachloroethane	BRL		µg/kg wet	330						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	330						
Isophorone	BRL		µg/kg wet	330						
1-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylphenol	BRL		µg/kg wet	330						
3 & 4-Methylphenol	BRL		µg/kg wet	330						
Naphthalene	BRL		µg/kg wet	330						
2-Nitroaniline	BRL		µg/kg wet	330						
3-Nitroaniline	BRL		µg/kg wet	330						
4-Nitroaniline	BRL		µg/kg wet	1320						
Nitrobenzene	BRL		µg/kg wet	330						
2-Nitrophenol	BRL		µg/kg wet	330						
4-Nitrophenol	BRL		µg/kg wet	1320						
N-Nitrosodimethylamine	BRL		µg/kg wet	330						
N-Nitrosodi-n-propylamine	BRL		µg/kg wet	330						
N-Nitrosodiphenylamine	BRL		µg/kg wet	330						
Pentachlorophenol	BRL		µg/kg wet	330						
Phenanthrene	BRL		µg/kg wet	330						
Phenol	BRL		µg/kg wet	330						
Pyrene	BRL		µg/kg wet	330						
Pyridine	BRL		µg/kg wet	330						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	330						
2,4,5-Trichlorophenol	BRL		µg/kg wet	330						
2,4,6-Trichlorophenol	BRL		µg/kg wet	330						
Pentachloronitrobenzene	BRL		µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	2600		µg/kg wet		3330		78	30-130		
Surrogate: 2-Fluorophenol	2600		µg/kg wet		3330		78	15-110		
Surrogate: Nitrobenzene-d5	2710		µg/kg wet		3330		81	30-130		
Surrogate: Phenol-d5	2630		µg/kg wet		3330		79	15-110		
Surrogate: Terphenyl-dl4	2490		µg/kg wet		3330		75	30-130		
Surrogate: 2,4,6-Tribromophenol	2920		µg/kg wet		3330		87	15-110		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
<u>LCS (8081282-BS1)</u>										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Acenaphthene	2180		µg/kg wet	330	3330		65	40-130		
Acenaphthylene	2100		µg/kg wet	330	3330		63	40-130		
Aniline	1550		µg/kg wet	330	3330		46	40-130		
Anthracene	2230		µg/kg wet	330	3330		67	40-130		
Atrazine	2590		µg/kg wet	330	3330		78	40-130		
Azobenzene/Diphenyldiazine	2280		µg/kg wet	330	3330		68	40-130		
Benzidine	BRL		µg/kg wet	330	3330			0-153		
Benzo (a) anthracene	2150		µg/kg wet	330	3330		65	40-130		
Benzo (a) pyrene	2290		µg/kg wet	330	3330		69	40-130		
Benzo (b) fluoranthene	2120		µg/kg wet	330	3330		64	40-130		
Benzo (g,h,i) perylene	2450		µg/kg wet	330	3330		73	40-130		
Benzo (k) fluoranthene	2470		µg/kg wet	330	3330		74	40-130		
Benzoic acid	2490		µg/kg wet	330	3330		75	0-130		
Benzyl alcohol	2180		µg/kg wet	330	3330		65	40-130		
Bis(2-chloroethoxy)methane	2230		µg/kg wet	330	3330		67	40-130		
Bis(2-chloroethyl)ether	2150		µg/kg wet	330	3330		64	40-130		
Bis(2-chloroisopropyl)ether	2400		µg/kg wet	330	3330		72	40-130		
Bis(2-ethylhexyl)phthalate	2240		µg/kg wet	330	3330		67	40-130		
4-Bromophenyl phenyl ether	2470		µg/kg wet	330	3330		74	40-130		
Butyl benzyl phthalate	2290		µg/kg wet	330	3330		69	40-130		
Carbazole	2360		µg/kg wet	330	3330		71	40-130		
4-Chloro-3-methylphenol	2180		µg/kg wet	330	3330		65	40-130		
4-Chloroaniline	1780		µg/kg wet	330	3330		53	40-130		
2-Chloronaphthalene	2080		µg/kg wet	330	3330		62	40-130		
2-Chlorophenol	2170		µg/kg wet	330	3330		65	40-130		
4-Chlorophenyl phenyl ether	2240		µg/kg wet	330	3330		67	40-130		
Chrysene	2240		µg/kg wet	330	3330		67	40-130		
Dibenzo (a,h) anthracene	2370		µg/kg wet	330	3330		71	40-130		
Dibenzofuran	2120		µg/kg wet	330	3330		64	40-130		
1,2-Dichlorobenzene	2170		µg/kg wet	330	3330		65	40-130		
1,3-Dichlorobenzene	2260		µg/kg wet	330	3330		68	40-130		
1,4-Dichlorobenzene	2000		µg/kg wet	330	3330		60	40-130		
3,3'-Dichlorobenzidine	1860		µg/kg wet	330	3330		56	40-130		
2,4-Dichlorophenol	2140		µg/kg wet	330	3330		64	40-130		
Diethyl phthalate	2180		µg/kg wet	330	3330		66	40-130		
Dimethyl phthalate	2220		µg/kg wet	330	3330		67	40-130		
2,4-Dimethylphenol	1890		µg/kg wet	330	3330		57	40-130		
Di-n-butyl phthalate	2250		µg/kg wet	330	3330		68	40-130		
4,6-Dinitro-2-methylphenol	2620		µg/kg wet	330	3330		78	40-130		
2,4-Dinitrophenol	2510		µg/kg wet	330	3330		75	40-130		
2,4-Dinitrotoluene	2430		µg/kg wet	330	3330		73	40-130		
2,6-Dinitrotoluene	2640		µg/kg wet	330	3330		79	40-130		
Di-n-octyl phthalate	2250		µg/kg wet	330	3330		68	40-130		
Fluoranthene	2290		µg/kg wet	330	3330		69	40-130		
Fluorene	2170		µg/kg wet	330	3330		65	40-130		
Hexachlorobenzene	2340		µg/kg wet	330	3330		70	40-130		
Hexachlorobutadiene	2150		µg/kg wet	330	3330		65	40-130		
Hexachlorocyclopentadiene	1490		µg/kg wet	330	3330		45	40-130		
Hexachloroethane	2110		µg/kg wet	330	3330		63	40-130		
Indeno (1,2,3-cd) pyrene	2410		µg/kg wet	330	3330		72	40-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
<u>LCS (8081282-BS1)</u>										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Isophorone	2110		µg/kg wet	330	3330		63	40-130		
1-Methylnaphthalene	2130		µg/kg wet	330	3330		64	40-140		
2-Methylnaphthalene	2070		µg/kg wet	330	3330		62	40-130		
2-Methylphenol	2270		µg/kg wet	330	3330		68	40-130		
3 & 4-Methylphenol	2210		µg/kg wet	330	3330		66	40-130		
Naphthalene	2140		µg/kg wet	330	3330		64	40-130		
2-Nitroaniline	2480		µg/kg wet	330	3330		74	40-130		
3-Nitroaniline	2210		µg/kg wet	330	3330		66	40-130		
4-Nitroaniline	2360		µg/kg wet	1320	3330		71	40-130		
Nitrobenzene	2150		µg/kg wet	330	3330		64	40-130		
2-Nitrophenol	2350		µg/kg wet	330	3330		71	40-130		
4-Nitrophenol	2350		µg/kg wet	1320	3330		71	40-130		
N-Nitrosodimethylamine	1070	QC2	µg/kg wet	330	3330		32	40-130		
N-Nitrosodi-n-propylamine	2260		µg/kg wet	330	3330		68	40-130		
N-Nitrosodiphenylamine	2460		µg/kg wet	330	3330		74	40-130		
Pentachlorophenol	2740		µg/kg wet	330	3330		82	40-130		
Phenanthrene	2280		µg/kg wet	330	3330		68	40-130		
Phenol	2170		µg/kg wet	330	3330		65	40-130		
Pyrene	2310		µg/kg wet	330	3330		69	40-130		
Pyridine	1750		µg/kg wet	330	3330		53	0-130		
1,2,4-Trichlorobenzene	2080		µg/kg wet	330	3330		62	40-130		
2,4,5-Trichlorophenol	2210		µg/kg wet	330	3330		66	40-130		
2,4,6-Trichlorophenol	2060		µg/kg wet	330	3330		62	40-130		
Pentachloronitrobenzene	2200		µg/kg wet	330	3330		66	40-140		
1,2,4,5-Tetrachlorobenzene	2050		µg/kg wet	330	3330		62	40-140		
Surrogate: 2-Fluorobiphenyl	2260		µg/kg wet		3330		68	30-130		
Surrogate: 2-Fluorophenol	2400		µg/kg wet		3330		72	15-110		
Surrogate: Nitrobenzene-d5	2420		µg/kg wet		3330		73	30-130		
Surrogate: Phenol-d5	2470		µg/kg wet		3330		74	15-110		
Surrogate: Terphenyl-dl4	2240		µg/kg wet		3330		67	30-130		
Surrogate: 2,4,6-Tribromophenol	3010		µg/kg wet		3330		90	15-110		
<u>Duplicate (8081282-DUP1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Acenaphthene	BRL		µg/kg dry	176		BRL				50
Acenaphthylene	BRL		µg/kg dry	176		BRL				50
Aniline	BRL		µg/kg dry	176		BRL				50
Anthracene	BRL		µg/kg dry	176		BRL				50
Atrazine	BRL		µg/kg dry	176		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/kg dry	176		BRL				50
Benzidine	BRL		µg/kg dry	176		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	176		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	176		BRL				50
Benzo (b) fluoranthene	BRL		µg/kg dry	176		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	176		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	176		BRL				50
Benzoic acid	BRL		µg/kg dry	176		BRL				50
Benzyl alcohol	BRL		µg/kg dry	176		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/kg dry	176		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/kg dry	176		BRL				50
Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	176		BRL				50

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
<u>Duplicate (8081282-DUP1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	176		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/kg dry	176		BRL				50
Butyl benzyl phthalate	BRL		µg/kg dry	176		BRL				50
Carbazole	BRL		µg/kg dry	176		BRL				50
4-Chloro-3-methylphenol	BRL		µg/kg dry	176		BRL				50
4-Chloroaniline	BRL		µg/kg dry	176		BRL				50
2-Chloronaphthalene	BRL		µg/kg dry	176		BRL				50
2-Chlorophenol	BRL		µg/kg dry	176		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/kg dry	176		BRL				50
Chrysene	BRL		µg/kg dry	176		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	176		BRL				50
Dibenzofuran	BRL		µg/kg dry	176		BRL				50
1,2-Dichlorobenzene	BRL		µg/kg dry	176		BRL				50
1,3-Dichlorobenzene	BRL		µg/kg dry	176		BRL				50
1,4-Dichlorobenzene	BRL		µg/kg dry	176		BRL				50
3,3'-Dichlorobenzidine	BRL		µg/kg dry	176		BRL				50
2,4-Dichlorophenol	BRL		µg/kg dry	176		BRL				50
Diethyl phthalate	BRL		µg/kg dry	176		BRL				50
Dimethyl phthalate	BRL		µg/kg dry	176		BRL				50
2,4-Dimethylphenol	BRL		µg/kg dry	176		BRL				50
Di-n-butyl phthalate	BRL		µg/kg dry	176		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	176		BRL				50
2,4-Dinitrophenol	BRL		µg/kg dry	176		BRL				50
2,4-Dinitrotoluene	BRL		µg/kg dry	176		BRL				50
2,6-Dinitrotoluene	BRL		µg/kg dry	176		BRL				50
Di-n-octyl phthalate	BRL		µg/kg dry	176		BRL				50
Fluoranthene	21.7	J	µg/kg dry	176		20.2			7	50
Fluorene	BRL		µg/kg dry	176		BRL				50
Hexachlorobenzene	BRL		µg/kg dry	176		BRL				50
Hexachlorobutadiene	BRL		µg/kg dry	176		BRL				50
Hexachlorocyclopentadiene	BRL		µg/kg dry	176		BRL				50
Hexachloroethane	BRL		µg/kg dry	176		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	176		BRL				50
Isophorone	BRL		µg/kg dry	176		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	176		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	176		BRL				50
2-Methylphenol	BRL		µg/kg dry	176		BRL				50
3 & 4-Methylphenol	BRL		µg/kg dry	176		BRL				50
Naphthalene	BRL		µg/kg dry	176		BRL				50
2-Nitroaniline	BRL		µg/kg dry	176		BRL				50
3-Nitroaniline	BRL		µg/kg dry	176		BRL				50
4-Nitroaniline	BRL		µg/kg dry	704		BRL				50
Nitrobenzene	BRL		µg/kg dry	176		BRL				50
2-Nitrophenol	BRL		µg/kg dry	176		BRL				50
4-Nitrophenol	BRL		µg/kg dry	704		BRL				50
N-Nitrosodimethylamine	BRL		µg/kg dry	176		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/kg dry	176		BRL				50
N-Nitrosodiphenylamine	BRL		µg/kg dry	176		BRL				50
Pentachlorophenol	BRL		µg/kg dry	176		BRL				50

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
<u>Duplicate (8081282-DUP1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Phenanthrene	BRL		µg/kg dry	176		BRL				50
Phenol	BRL		µg/kg dry	176		BRL				50
Pyrene	23.8	J	µg/kg dry	176		22.1			8	50
Pyridine	BRL		µg/kg dry	176		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/kg dry	176		BRL				50
2,4,5-Trichlorophenol	BRL		µg/kg dry	176		BRL				50
2,4,6-Trichlorophenol	BRL		µg/kg dry	176		BRL				50
Pentachloronitrobenzene	BRL		µg/kg dry	176		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	176		BRL				50
Surrogate: 2-Fluorobiphenyl	1210		µg/kg dry		1780		68	30-130		
Surrogate: 2-Fluorophenol	1210		µg/kg dry		1780		68	15-110		
Surrogate: Nitrobenzene-d5	1190		µg/kg dry		1780		67	30-130		
Surrogate: Phenol-d5	1290		µg/kg dry		1780		72	15-110		
Surrogate: Terphenyl-dl4	1290		µg/kg dry		1780		73	30-130		
Surrogate: 2,4,6-Tribromophenol	1470		µg/kg dry		1780		83	15-110		
<u>Matrix Spike (8081282-MS1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Acenaphthene	1210		µg/kg dry	176	1780	BRL	68	40-140		
Benzo (b) fluoranthene	1240		µg/kg dry	176	1780	BRL	70	40-140		
Benzo (k) fluoranthene	1240		µg/kg dry	176	1780	BRL	70	40-140		
4-Chloro-3-methylphenol	1210		µg/kg dry	176	1780	BRL	68	30-130		
2-Chlorophenol	1150		µg/kg dry	176	1780	BRL	65	30-130		
Chrysene	1300		µg/kg dry	176	1780	BRL	73	40-140		
1,4-Dichlorobenzene	1080		µg/kg dry	176	1780	BRL	61	40-140		
Indeno (1,2,3-cd) pyrene	905		µg/kg dry	176	1780	BRL	51	40-140		
Naphthalene	1170		µg/kg dry	176	1780	BRL	66	40-140		
4-Nitrophenol	1260		µg/kg dry	703	1780	BRL	71	30-130		
N-Nitrosodi-n-propylamine	1190		µg/kg dry	176	1780	BRL	67	40-140		
Pentachlorophenol	1480		µg/kg dry	176	1780	BRL	84	30-130		
Phenol	1150		µg/kg dry	176	1780	BRL	65	30-130		
Pyrene	1340		µg/kg dry	176	1780	22.1	74	40-140		
1,2,4-Trichlorobenzene	1130		µg/kg dry	176	1780	BRL	63	40-140		
Surrogate: 2-Fluorobiphenyl	1160		µg/kg dry		1780		65	30-130		
Surrogate: 2-Fluorophenol	1160		µg/kg dry		1780		65	15-110		
Surrogate: Nitrobenzene-d5	1220		µg/kg dry		1780		68	30-130		
Surrogate: Phenol-d5	1190		µg/kg dry		1780		67	15-110		
Surrogate: Terphenyl-dl4	1210		µg/kg dry		1780		68	30-130		
Surrogate: 2,4,6-Tribromophenol	1560		µg/kg dry		1780		88	15-110		
<u>Matrix Spike Dup (8081282-MSD1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Acenaphthene	1140		µg/kg dry	178	1790	BRL	63	40-140	7	30
Benzo (b) fluoranthene	1170		µg/kg dry	178	1790	BRL	65	40-140	7	30
Benzo (k) fluoranthene	1230		µg/kg dry	178	1790	BRL	69	40-140	2	30
4-Chloro-3-methylphenol	1150		µg/kg dry	178	1790	BRL	64	30-130	6	30
2-Chlorophenol	1090		µg/kg dry	178	1790	BRL	61	30-130	7	30
Chrysene	1170		µg/kg dry	178	1790	BRL	65	40-140	11	30
1,4-Dichlorobenzene	1020		µg/kg dry	178	1790	BRL	57	40-140	6	30
Indeno (1,2,3-cd) pyrene	891		µg/kg dry	178	1790	BRL	50	40-140	3	30
Naphthalene	1090		µg/kg dry	178	1790	BRL	61	40-140	8	30
4-Nitrophenol	1150		µg/kg dry	711	1790	BRL	64	30-130	10	30
N-Nitrosodi-n-propylamine	1130		µg/kg dry	178	1790	BRL	63	40-140	6	30

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081282 - SW846 3545A										
<u>Matrix Spike Dup (8081282-MSD1)</u> Source: SA82974-05										
Prepared: 18-Aug-08 Analyzed: 22-Aug-08										
Pentachlorophenol	1420		µg/kg dry	178	1790	BRL	79	30-130	5	30
Phenol	1090		µg/kg dry	178	1790	BRL	61	30-130	6	30
Pyrene	1280		µg/kg dry	178	1790	22.1	70	40-140	6	30
1,2,4-Trichlorobenzene	1050		µg/kg dry	178	1790	BRL	59	40-140	8	30
Surrogate: 2-Fluorobiphenyl	1090		µg/kg dry		1790		61	30-130		
Surrogate: 2-Fluorophenol	1070		µg/kg dry		1790		60	15-110		
Surrogate: Nitrobenzene-d5	1130		µg/kg dry		1790		63	30-130		
Surrogate: Phenol-d5	1110		µg/kg dry		1790		62	15-110		
Surrogate: Terphenyl-dl4	1160		µg/kg dry		1790		64	30-130		
Surrogate: 2,4,6-Tribromophenol	1440		µg/kg dry		1790		80	15-110		
Batch 8081831 - SW846 3535										
<u>Blank (8081831-BLK1)</u>										
Prepared & Analyzed: 25-Aug-08										
1,4-Dichlorobenzene	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Nitrobenzene	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	177		µg/l		200		88	30-130		
Surrogate: 2-Fluorophenol	205		µg/l		200		103	15-110		
Surrogate: Nitrobenzene-d5	168		µg/l		200		84	30-130		
Surrogate: Terphenyl-dl4	190		µg/l		200		95	30-130		
<u>LCS (8081831-BS1)</u>										
Prepared & Analyzed: 25-Aug-08										
1,4-Dichlorobenzene	169		µg/l	5.00	200		85	40-140		
2,4-Dinitrotoluene	141		µg/l	5.00	200		71	40-140		
Hexachlorobenzene	182		µg/l	5.00	200		91	40-140		
Hexachlorobutadiene	174		µg/l	5.00	200		87	40-140		
Hexachloroethane	170		µg/l	5.00	200		85	40-140		
2-Methylphenol	187		µg/l	5.00	200		94	30-130		
3 & 4-Methylphenol	197		µg/l	10.0	200		99	40-130		
Nitrobenzene	167		µg/l	5.00	200		83	40-140		
Pentachlorophenol	165		µg/l	5.00	200		83	30-130		
Pyridine	167		µg/l	5.00	200		83	40-140		
2,4,5-Trichlorophenol	173		µg/l	5.00	200		86	30-130		
2,4,6-Trichlorophenol	196		µg/l	5.00	200		98	30-130		
Surrogate: 2-Fluorobiphenyl	188		µg/l		200		94	30-130		
Surrogate: 2-Fluorophenol	185		µg/l		200		93	15-110		
Surrogate: Nitrobenzene-d5	172		µg/l		200		86	30-130		
Surrogate: Terphenyl-dl4	201		µg/l		200		101	30-130		
<u>Duplicate (8081831-DUP1)</u> Source: SA83374-03										
Prepared & Analyzed: 25-Aug-08										
1,4-Dichlorobenzene	BRL		µg/l	5.00		BRL				50

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081831 - SW846 3535										
<u>Duplicate (8081831-DUP1)</u> Source: SA83374-03										
Prepared & Analyzed: 25-Aug-08										
2,4-Dinitrotoluene	BRL		µg/l	5.00		BRL				50
Hexachlorobenzene	BRL		µg/l	5.00		BRL				50
Hexachlorobutadiene	BRL		µg/l	5.00		BRL				50
Hexachloroethane	BRL		µg/l	5.00		BRL				50
2-Methylphenol	BRL		µg/l	5.00		BRL				50
3 & 4-Methylphenol	BRL		µg/l	10.0		BRL				50
Nitrobenzene	BRL		µg/l	5.00		BRL				50
Pentachlorophenol	BRL		µg/l	5.00		BRL				50
Pyridine	BRL		µg/l	5.00		BRL				50
2,4,5-Trichlorophenol	BRL		µg/l	5.00		BRL				50
2,4,6-Trichlorophenol	BRL		µg/l	5.00		BRL				50
Surrogate: 2-Fluorobiphenyl	167		µg/l		400		42	30-130		
Surrogate: 2-Fluorophenol	207		µg/l		400		52	15-110		
Surrogate: Nitrobenzene-d5	167		µg/l		400		42	30-130		
Surrogate: Terphenyl-dl4	174		µg/l		400		44	30-130		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080904 - SW846 3510C										
<u>Blank (8080904-BLK1)</u>										
Prepared & Analyzed: 13-Aug-08										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.130		µg/l		0.200		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.196		µg/l		0.200		98	30-150		
<u>LCS (8080904-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
PCB 1016	2.04		µg/l	0.200	2.50		81	40-140		
PCB 1260	2.05		µg/l	0.200	2.50		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.127		µg/l		0.200		64	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.185		µg/l		0.200		92	30-150		
<u>LCS Dup (8080904-BSD1)</u>										
Prepared & Analyzed: 13-Aug-08										
PCB 1016	2.11		µg/l	0.200	2.50		84	40-140	4	20
PCB 1260	2.13		µg/l	0.200	2.50		85	40-140	4	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.134		µg/l		0.200		67	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.195		µg/l		0.200		97	30-150		
Batch 8081276 - SW846 3545A										
<u>Blank (8081276-BLK1)</u>										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.7		µg/kg wet		20.0		54	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.2		µg/kg wet		20.0		86	30-150		
<u>LCS (8081276-BS1)</u>										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	189		µg/kg wet	20.0	250		76	40-140		
PCB 1260	214		µg/kg wet	20.0	250		85	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.0		µg/kg wet		20.0		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.9		µg/kg wet		20.0		84	30-150		
<u>LCS Dup (8081276-BSD1)</u>										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	198		µg/kg wet	20.0	250		79	40-140	5	30
PCB 1260	223		µg/kg wet	20.0	250		89	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.0		µg/kg wet		20.0		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.0		µg/kg wet		20.0		90	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081276 - SW846 3545A										
<u>Duplicate (8081276-DUP1)</u> Source: SA83213-01										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	BRL		µg/kg dry	22.7		BRL				40
PCB 1221	BRL		µg/kg dry	22.7		BRL				40
PCB 1232	BRL		µg/kg dry	22.7		BRL				40
PCB 1242	BRL		µg/kg dry	22.7		BRL				40
PCB 1248	BRL		µg/kg dry	22.7		BRL				40
PCB 1254	BRL		µg/kg dry	22.7		BRL				40
PCB 1260	BRL		µg/kg dry	22.7		BRL				40
PCB 1262	BRL		µg/kg dry	22.7		BRL				40
PCB 1268	BRL		µg/kg dry	22.7		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.4		µg/kg dry		22.6		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.5		µg/kg dry		22.6		95	30-150		
<u>Matrix Spike (8081276-MS1)</u> Source: SA83213-01										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	202		µg/kg dry	22.5	281	BRL	72	40-140		
PCB 1260	233		µg/kg dry	22.5	281	BRL	83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.0		µg/kg dry		22.5		49	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.3		µg/kg dry		22.5		86	30-150		
<u>Matrix Spike Dup (8081276-MSD1)</u> Source: SA83213-01										
Prepared & Analyzed: 18-Aug-08										
PCB 1016	208		µg/kg dry	22.0	274	BRL	76	40-140	5	50
PCB 1260	244		µg/kg dry	22.0	274	BRL	89	40-140	7	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.5		µg/kg dry		22.0		48	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.1		µg/kg dry		22.0		96	30-150		
Batch 8081389 - SW846 3545A										
<u>Blank (8081389-BLK1)</u>										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.0		µg/kg wet		20.0		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.9		µg/kg wet		20.0		74	30-150		
<u>LCS (8081389-BS1)</u>										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	234		µg/kg wet	20.0	250		93	40-140		
PCB 1260	242		µg/kg wet	20.0	250		97	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.2		µg/kg wet		20.0		51	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.6		µg/kg wet		20.0		98	30-150		
<u>LCS Dup (8081389-BSD1)</u>										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	229		µg/kg wet	20.0	250		91	40-140	2	30
PCB 1260	242		µg/kg wet	20.0	250		97	40-140	0.2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.1		µg/kg wet		20.0		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.5		µg/kg wet		20.0		98	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081389 - SW846 3545A										
<u>Duplicate (8081389-DUP1)</u> Source: SA83054-08										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	BRL		µg/kg dry	20.7		BRL				40
PCB 1221	BRL		µg/kg dry	20.7		BRL				40
PCB 1232	BRL		µg/kg dry	20.7		BRL				40
PCB 1242	BRL		µg/kg dry	20.7		BRL				40
PCB 1248	BRL		µg/kg dry	20.7		BRL				40
PCB 1254	BRL		µg/kg dry	20.7		BRL				40
PCB 1260	BRL		µg/kg dry	20.7		BRL				40
PCB 1262	BRL		µg/kg dry	20.7		BRL				40
PCB 1268	BRL		µg/kg dry	20.7		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.7		µg/kg dry		20.7		52	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.5		µg/kg dry		20.7		75	30-150		
<u>Matrix Spike (8081389-MS1)</u> Source: SA83054-08										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	228		µg/kg dry	20.2	252	BRL	90	40-140		
PCB 1260	199		µg/kg dry	20.2	252	BRL	79	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.1		µg/kg dry		20.2		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.5		µg/kg dry		20.2		67	30-150		
<u>Matrix Spike Dup (8081389-MSD1)</u> Source: SA83054-08										
Prepared & Analyzed: 19-Aug-08										
PCB 1016	227		µg/kg dry	20.3	254	BRL	89	40-140	1	50
PCB 1260	198		µg/kg dry	20.3	254	BRL	78	40-140	1	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.5		µg/kg dry		20.3		51	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.2		µg/kg dry		20.3		70	30-150		
Batch 8081530 - SW846 3535										
<u>Blank (8081530-BLK1)</u>										
Prepared & Analyzed: 20-Aug-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.125		µg/l		0.200		62	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.109		µg/l		0.200		54	30-150		
<u>LCS (8081530-BS1)</u>										
Prepared & Analyzed: 20-Aug-08										
2,4,5-TP (Silvex)	0.257		µg/l	0.100	0.500		51	40-140		
2,4,5-TP (Silvex) [2C]	0.244		µg/l	0.100	0.500		49	40-140		
2,4-D	0.249		µg/l	0.100	0.500		50	40-140		
2,4-D [2C]	0.225		µg/l	0.100	0.500		45	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.112		µg/l		0.200		56	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.106		µg/l		0.200		53	30-150		
<u>LCS Dup (8081530-BSD1)</u>										
Prepared & Analyzed: 20-Aug-08										
2,4,5-TP (Silvex)	0.251		µg/l	0.100	0.500		50	40-140	2	25
2,4,5-TP (Silvex) [2C]	0.236		µg/l	0.100	0.500		47	40-140	3	25
2,4-D	0.251		µg/l	0.100	0.500		50	40-140	0.8	25
2,4-D [2C]	0.217		µg/l	0.100	0.500		43	40-140	4	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.109		µg/l		0.200		54	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.104		µg/l		0.200		52	30-150		
<u>Duplicate (8081530-DUP1)</u> Source: SA82988-01										

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081530 - SW846 3535										
Prepared & Analyzed: 20-Aug-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100		BRL				30
2,4-D	BRL		µg/l	0.100		BRL				30
2,4-D [2C]	BRL		µg/l	0.100		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0950		µg/l		0.200		48	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0980		µg/l		0.200		49	30-150		
Batch 8081531 - SW846 3535										
Blank (8081531-BLK1)										
Prepared & Analyzed: 20-Aug-08										
gamma-BHC (Lindane)	BRL		µg/l	0.010						
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.010						
Heptachlor	BRL		µg/l	0.010						
Heptachlor [2C]	BRL		µg/l	0.010						
Heptachlor epoxide	BRL		µg/l	0.010						
Heptachlor Epoxide [2C]	BRL		µg/l	0.010						
Dieldrin	BRL		µg/l	0.010						
Dieldrin [2C]	BRL		µg/l	0.010						
4,4'-DDE (p,p')	BRL		µg/l	0.010						
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.010						
Endrin	BRL		µg/l	0.010						
Endrin [2C]	BRL		µg/l	0.010						
4,4'-DDD (p,p')	BRL		µg/l	0.010						
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.010						
4,4'-DDT (p,p')	BRL		µg/l	0.010						
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.010						
Methoxychlor	BRL		µg/l	0.010						
Methoxychlor [2C]	BRL		µg/l	0.010						
Toxaphene	BRL		µg/l	0.050						
Toxaphene [2C]	BRL		µg/l	0.050						
Chlordane	BRL		µg/l	0.050						
Chlordane [2C]	BRL		µg/l	0.050						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0105		µg/l		0.0200		53	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.00699		µg/l		0.0200		35	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.00946		µg/l		0.0200		47	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.00854		µg/l		0.0200		43	30-150		
LCS (8081531-BS1)										
Prepared & Analyzed: 20-Aug-08										
gamma-BHC (Lindane)	0.011		µg/l	0.010	0.0200		53	40-140		
gamma-BHC (Lindane) [2C]	0.010		µg/l	0.010	0.0200		49	40-140		
Heptachlor	0.012		µg/l	0.010	0.0200		59	40-140		
Heptachlor [2C]	0.011		µg/l	0.010	0.0200		55	40-140		
Heptachlor epoxide	0.011		µg/l	0.010	0.0200		55	40-140		
Heptachlor Epoxide [2C]	0.010		µg/l	0.010	0.0200		51	40-140		
Dieldrin	0.011		µg/l	0.010	0.0200		55	40-140		
Dieldrin [2C]	0.010		µg/l	0.010	0.0200		50	40-140		
4,4'-DDE (p,p')	0.012		µg/l	0.010	0.0200		60	40-140		
4,4'-DDE (p,p') [2C]	0.011		µg/l	0.010	0.0200		53	40-140		
Endrin	0.011		µg/l	0.010	0.0200		54	40-140		
Endrin [2C]	0.010		µg/l	0.010	0.0200		50	40-140		
4,4'-DDD (p,p')	0.011		µg/l	0.010	0.0200		54	40-140		
4,4'-DDD (p,p') [2C]	0.010		µg/l	0.010	0.0200		49	40-140		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081531 - SW846 3535										
<u>LCS (8081531-BS1)</u>										
Prepared & Analyzed: 20-Aug-08										
4,4'-DDT (p,p')	0.011		µg/l	0.010	0.0200		56	40-140		
4,4'-DDT (p,p') [2C]	0.010		µg/l	0.010	0.0200		48	40-140		
Methoxychlor	0.013		µg/l	0.010	0.0200		63	40-140		
Methoxychlor [2C]	0.010		µg/l	0.010	0.0200		51	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.00967		µg/l		0.0200		48	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.00819		µg/l		0.0200		41	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.00918		µg/l		0.0200		46	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.00787		µg/l		0.0200		39	30-150		
<u>LCS Dup (8081531-BSD1)</u>										
Prepared & Analyzed: 20-Aug-08										
gamma-BHC (Lindane)	0.011		µg/l	0.010	0.0200		54	40-140	2	30
gamma-BHC (Lindane) [2C]	0.010		µg/l	0.010	0.0200		49	40-140	0.5	30
Heptachlor	0.012		µg/l	0.010	0.0200		60	40-140	2	30
Heptachlor [2C]	0.011		µg/l	0.010	0.0200		55	40-140	0.6	30
Heptachlor epoxide	0.011		µg/l	0.010	0.0200		56	40-140	2	30
Heptachlor Epoxide [2C]	0.010		µg/l	0.010	0.0200		52	40-140	3	30
Dieldrin	0.011		µg/l	0.010	0.0200		54	40-140	2	30
Dieldrin [2C]	0.010		µg/l	0.010	0.0200		49	40-140	1	30
4,4'-DDE (p,p')	0.012		µg/l	0.010	0.0200		61	40-140	2	30
4,4'-DDE (p,p') [2C]	0.011		µg/l	0.010	0.0200		55	40-140	5	30
Endrin	0.011		µg/l	0.010	0.0200		55	40-140	1	30
Endrin [2C]	0.010		µg/l	0.010	0.0200		49	40-140	3	30
4,4'-DDD (p,p')	0.011		µg/l	0.010	0.0200		57	40-140	4	30
4,4'-DDD (p,p') [2C]	0.010		µg/l	0.010	0.0200		49	40-140	1	30
4,4'-DDT (p,p')	0.011		µg/l	0.010	0.0200		57	40-140	2	30
4,4'-DDT (p,p') [2C]	0.010		µg/l	0.010	0.0200		48	40-140	0.03	30
Methoxychlor	0.012		µg/l	0.010	0.0200		60	40-140	4	30
Methoxychlor [2C]	0.010		µg/l	0.010	0.0200		49	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.00949		µg/l		0.0200		47	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.00826		µg/l		0.0200		41	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.00971		µg/l		0.0200		49	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.00806		µg/l		0.0200		40	30-150		
<u>Duplicate (8081531-DUP1)</u> Source: SA82988-01										
Prepared & Analyzed: 20-Aug-08										
gamma-BHC (Lindane)	BRL		µg/l	0.080		BRL				30
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.080		BRL				30
Heptachlor	BRL		µg/l	0.080		BRL				30
Heptachlor [2C]	BRL		µg/l	0.080		BRL				30
Heptachlor epoxide	BRL		µg/l	0.080		BRL				30
Heptachlor Epoxide [2C]	BRL		µg/l	0.080		BRL				30
Dieldrin	BRL		µg/l	0.080		BRL				30
Dieldrin [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDE (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.080		BRL				30
Endrin	BRL		µg/l	0.080		BRL				30
Endrin [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDD (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.080		BRL				30
4,4'-DDT (p,p')	BRL		µg/l	0.080		BRL				30
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.080		BRL				30

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8081531 - SW846 3535										
Duplicate (8081531-DUP1)		Source: SA82988-01								
Prepared & Analyzed: 20-Aug-08										
Methoxychlor	BRL		µg/l	0.080		BRL				30
Methoxychlor [2C]	BRL		µg/l	0.080		BRL				30
Toxaphene	BRL		µg/l	0.400		BRL				30
Toxaphene [2C]	BRL		µg/l	0.400		BRL				30
Chlordane	BRL		µg/l	0.400		BRL				30
Chlordane [2C]	BRL		µg/l	0.400		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.397		µg/l		0.800		50	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.437		µg/l		0.800		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.411		µg/l		0.800		51	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.413		µg/l		0.800		52	30-150		
Batch 8081832 - SW846 3535										
Blank (8081832-BLK1)										
Prepared & Analyzed: 25-Aug-08										
gamma-BHC (Lindane)	BRL		µg/l	0.010						
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.010						
Heptachlor	BRL		µg/l	0.010						
Heptachlor [2C]	BRL		µg/l	0.010						
Heptachlor epoxide	BRL		µg/l	0.010						
Heptachlor Epoxide [2C]	BRL		µg/l	0.010						
Dieldrin	BRL		µg/l	0.010						
Dieldrin [2C]	BRL		µg/l	0.010						
4,4'-DDE (p,p')	BRL		µg/l	0.010						
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.010						
Endrin	BRL		µg/l	0.010						
Endrin [2C]	BRL		µg/l	0.010						
4,4'-DDD (p,p')	BRL		µg/l	0.010						
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.010						
4,4'-DDT (p,p')	BRL		µg/l	0.010						
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.010						
Methoxychlor	BRL		µg/l	0.010						
Methoxychlor [2C]	BRL		µg/l	0.010						
Toxaphene	BRL		µg/l	0.050						
Toxaphene [2C]	BRL		µg/l	0.050						
Chlordane	BRL		µg/l	0.050						
Chlordane [2C]	BRL		µg/l	0.050						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0158		µg/l		0.0200		79	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.00916		µg/l		0.0200		46	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0122		µg/l		0.0200		61	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0123		µg/l		0.0200		62	30-150		
LCS (8081832-BS1)										
Prepared & Analyzed: 25-Aug-08										
gamma-BHC (Lindane)	0.015		µg/l	0.010	0.0200		73	40-140		
gamma-BHC (Lindane) [2C]	0.014		µg/l	0.010	0.0200		69	40-140		
Heptachlor	0.016		µg/l	0.010	0.0200		80	40-140		
Heptachlor [2C]	0.016		µg/l	0.010	0.0200		80	40-140		
Heptachlor epoxide	0.015		µg/l	0.010	0.0200		73	40-140		
Heptachlor Epoxide [2C]	0.013		µg/l	0.010	0.0200		65	40-140		
Dieldrin	0.014		µg/l	0.010	0.0200		72	40-140		
Dieldrin [2C]	0.012		µg/l	0.010	0.0200		62	40-140		
4,4'-DDE (p,p')	0.015		µg/l	0.010	0.0200		75	40-140		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8081832 - SW846 3535										
<u>LCS (8081832-BS1)</u>										
Prepared & Analyzed: 25-Aug-08										
4,4'-DDE (p,p') [2C]	0.014		µg/l	0.010	0.0200		69	40-140		
Endrin	0.015		µg/l	0.010	0.0200		76	40-140		
Endrin [2C]	0.013		µg/l	0.010	0.0200		63	40-140		
4,4'-DDD (p,p')	0.014		µg/l	0.010	0.0200		71	40-140		
4,4'-DDD (p,p') [2C]	0.014		µg/l	0.010	0.0200		71	40-140		
4,4'-DDT (p,p')	0.016		µg/l	0.010	0.0200		79	40-140		
4,4'-DDT (p,p') [2C]	0.014		µg/l	0.010	0.0200		72	40-140		
Methoxychlor	0.019		µg/l	0.010	0.0200		94	40-140		
Methoxychlor [2C]	0.014		µg/l	0.010	0.0200		70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0126		µg/l		0.0200		63	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0114		µg/l		0.0200		57	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0147		µg/l		0.0200		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0141		µg/l		0.0200		71	30-150		
<u>LCS Dup (8081832-BSD1)</u>										
Prepared & Analyzed: 25-Aug-08										
gamma-BHC (Lindane)	0.014		µg/l	0.010	0.0200		70	40-140	5	30
gamma-BHC (Lindane) [2C]	0.015		µg/l	0.010	0.0200		73	40-140	5	30
Heptachlor	0.015		µg/l	0.010	0.0200		76	40-140	5	30
Heptachlor [2C]	0.017		µg/l	0.010	0.0200		85	40-140	6	30
Heptachlor epoxide	0.015		µg/l	0.010	0.0200		74	40-140	0.7	30
Heptachlor Epoxide [2C]	0.014		µg/l	0.010	0.0200		70	40-140	7	30
Dieldrin	0.015		µg/l	0.010	0.0200		76	40-140	6	30
Dieldrin [2C]	0.013		µg/l	0.010	0.0200		67	40-140	7	30
4,4'-DDE (p,p')	0.016		µg/l	0.010	0.0200		78	40-140	3	30
4,4'-DDE (p,p') [2C]	0.015		µg/l	0.010	0.0200		74	40-140	7	30
Endrin	0.014		µg/l	0.010	0.0200		70	40-140	8	30
Endrin [2C]	0.013		µg/l	0.010	0.0200		66	40-140	5	30
4,4'-DDD (p,p')	0.015		µg/l	0.010	0.0200		74	40-140	5	30
4,4'-DDD (p,p') [2C]	0.014		µg/l	0.010	0.0200		69	40-140	2	30
4,4'-DDT (p,p')	0.016		µg/l	0.010	0.0200		80	40-140	0.6	30
4,4'-DDT (p,p') [2C]	0.015		µg/l	0.010	0.0200		77	40-140	6	30
Methoxychlor	0.021		µg/l	0.010	0.0200		106	40-140	12	30
Methoxychlor [2C]	0.015		µg/l	0.010	0.0200		74	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0110		µg/l		0.0200		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0122		µg/l		0.0200		61	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0196		µg/l		0.0200		98	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0149		µg/l		0.0200		75	30-150		
<u>Duplicate (8081832-DUP1)</u> Source: SA83374-03										
Prepared & Analyzed: 25-Aug-08										
gamma-BHC (Lindane)	BRL		µg/l	0.020		BRL				30
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.020		BRL				30
Heptachlor	BRL		µg/l	0.020		BRL				30
Heptachlor [2C]	BRL		µg/l	0.020		BRL				30
Heptachlor epoxide	BRL		µg/l	0.020		BRL				30
Heptachlor Epoxide [2C]	BRL		µg/l	0.020		BRL				30
Dieldrin	BRL		µg/l	0.020		BRL				30
Dieldrin [2C]	BRL		µg/l	0.020		BRL				30
4,4'-DDE (p,p')	BRL		µg/l	0.020		BRL				30
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.020		BRL				30
Endrin	BRL		µg/l	0.020		BRL				30

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limit	RPD	Limit
Batch 8081832 - SW846 3535										
<u>Duplicate (8081832-DUP1)</u> Source: SA83374-03										
Prepared & Analyzed: 25-Aug-08										
Endrin [2C]	BRL		µg/l	0.020		BRL				30
4,4'-DDD (p,p')	BRL		µg/l	0.020		BRL				30
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.020		BRL				30
4,4'-DDT (p,p')	BRL		µg/l	0.020		BRL				30
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.020		BRL				30
Methoxychlor	BRL		µg/l	0.020		BRL				30
Methoxychlor [2C]	BRL		µg/l	0.020		BRL				30
Toxaphene	BRL		µg/l	0.100		BRL				30
Toxaphene [2C]	BRL		µg/l	0.100		BRL				30
Chlordane	BRL		µg/l	0.100		BRL				30
Chlordane [2C]	BRL		µg/l	0.100		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0258		µg/l		0.0400		64	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.0221		µg/l		0.0400		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0298		µg/l		0.0400		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0213		µg/l		0.0400		53	30-150		
Batch 8081836 - SW846 3535										
<u>Blank (8081836-BLK1)</u>										
Prepared & Analyzed: 25-Aug-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.121		µg/l		0.200		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.118		µg/l		0.200		59	30-150		
<u>LCS (8081836-BS1)</u>										
Prepared & Analyzed: 25-Aug-08										
2,4,5-TP (Silvex)	0.319		µg/l	0.100	0.500		64	40-140		
2,4,5-TP (Silvex) [2C]	0.320		µg/l	0.100	0.500		64	40-140		
2,4-D	0.334		µg/l	0.100	0.500		67	40-140		
2,4-D [2C]	0.295		µg/l	0.100	0.500		59	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.106		µg/l		0.200		53	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.107		µg/l		0.200		54	30-150		
<u>LCS Dup (8081836-BSD1)</u>										
Prepared & Analyzed: 25-Aug-08										
2,4,5-TP (Silvex)	0.321		µg/l	0.100	0.500		64	40-140	0.6	25
2,4,5-TP (Silvex) [2C]	0.318		µg/l	0.100	0.500		64	40-140	0.6	25
2,4-D	0.303		µg/l	0.100	0.500		61	40-140	10	25
2,4-D [2C]	0.295		µg/l	0.100	0.500		59	40-140	0	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.110		µg/l		0.200		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.110		µg/l		0.200		55	30-150		
<u>Duplicate (8081836-DUP1)</u> Source: SA83464-06										
Prepared: 25-Aug-08 Analyzed: 26-Aug-08										
2,4,5-TP (Silvex)	BRL		µg/l	0.100		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100		BRL				30
2,4-D	BRL		µg/l	0.100		BRL				30
2,4-D [2C]	BRL		µg/l	0.100		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.111		µg/l		0.286		39	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	0.144		µg/l		0.286		50	30-150		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080917 - SW846 3510C										
<u>Blank (8080917-BLK1)</u>										
Prepared: 13-Aug-08 Analyzed: 14-Aug-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/l	0.2						
Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.2						
Naphthalene	BRL		µg/l	2.50						
2-Methylnaphthalene	BRL		µg/l	2.50						
Acenaphthylene	BRL		µg/l	2.50						
Acenaphthene	BRL		µg/l	2.50						
Fluorene	BRL		µg/l	2.50						
Phenanthrene	BRL		µg/l	2.50						
Anthracene	BRL		µg/l	2.50						
Fluoranthene	BRL		µg/l	2.50						
Pyrene	BRL		µg/l	2.50						
Benzo (a) anthracene	BRL		µg/l	2.50						
Chrysene	BRL		µg/l	2.50						
Benzo (b) fluoranthene	BRL		µg/l	2.50						
Benzo (k) fluoranthene	BRL		µg/l	2.50						
Benzo (a) pyrene	BRL		µg/l	2.50						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	2.50						
Dibenzo (a,h) anthracene	BRL		µg/l	2.50						
Benzo (g,h,i) perylene	BRL		µg/l	2.50						
Surrogate: 1-Chlorooctadecane	30.6		µg/l		50.0		61	40-140		
Surrogate: Ortho-Terphenyl	27.6		µg/l		50.0		55	40-140		
Surrogate: 2-Fluorobiphenyl	22.6		µg/l		40.0		57	40-140		
<u>LCS (8080917-BS1)</u>										
Prepared: 13-Aug-08 Analyzed: 14-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.327		mg/l	0.2	0.600		54	40-140		
C19-C36 Aliphatic Hydrocarbons	0.507		mg/l	0.2	0.800		63	40-140		
C11-C22 Aromatic Hydrocarbons	0.920		mg/l	0.2	1.70		54	40-140		
Naphthalene	27.0	QC1	µg/l	2.50	100		27	40-140		
2-Methylnaphthalene	28.6	QC1	µg/l	2.50	100		29	40-140		
Acenaphthylene	35.6	QC1	µg/l	2.50	100		36	40-140		
Acenaphthene	39.2	QC1	µg/l	2.50	100		39	40-140		
Fluorene	46.1		µg/l	2.50	100		46	40-140		
Phenanthrene	60.9		µg/l	2.50	100		61	40-140		
Anthracene	50.6		µg/l	2.50	100		51	40-140		
Fluoranthene	56.3		µg/l	2.50	100		56	40-140		
Pyrene	56.4		µg/l	2.50	100		56	40-140		
Benzo (a) anthracene	64.1		µg/l	2.50	100		64	40-140		
Chrysene	57.6		µg/l	2.50	100		58	40-140		
Benzo (b) fluoranthene	67.9		µg/l	2.50	100		68	40-140		
Benzo (k) fluoranthene	64.0		µg/l	2.50	100		64	40-140		
Benzo (a) pyrene	58.2		µg/l	2.50	100		58	40-140		
Indeno (1,2,3-cd) pyrene	70.6		µg/l	2.50	100		71	40-140		
Dibenzo (a,h) anthracene	68.8		µg/l	2.50	100		69	40-140		
Benzo (g,h,i) perylene	62.0		µg/l	2.50	100		62	40-140		
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080917 - SW846 3510C										
<u>LCS (8080917-BS1)</u>										
Prepared: 13-Aug-08 Analyzed: 14-Aug-08										
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	29.0		µg/l		50.0		58	40-140		
Surrogate: Ortho-Terphenyl	23.9		µg/l		50.0		48	40-140		
Surrogate: 2-Fluorobiphenyl	23.4		µg/l		40.0		59	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (8080917-BS2)</u>										
Prepared: 13-Aug-08 Analyzed: 14-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.332		mg/l	0.2				40-140		
C19-C36 Aliphatic Hydrocarbons	0.593		mg/l	0.2				40-140		
C11-C22 Aromatic Hydrocarbons	1.15		mg/l	0.2				40-140		
Naphthalene	44.2		µg/l	2.50				40-140		
2-Methylnaphthalene	48.4		µg/l	2.50				40-140		
Acenaphthylene	51.5		µg/l	2.50				40-140		
Acenaphthene	53.7		µg/l	2.50				40-140		
Fluorene	57.3		µg/l	2.50				40-140		
Phenanthrene	65.0		µg/l	2.50				40-140		
Anthracene	58.0		µg/l	2.50				40-140		
Fluoranthene	64.3		µg/l	2.50				40-140		
Pyrene	64.1		µg/l	2.50				40-140		
Benzo (a) anthracene	79.5		µg/l	2.50				40-140		
Chrysene	71.0		µg/l	2.50				40-140		
Benzo (b) fluoranthene	81.8		µg/l	2.50				40-140		
Benzo (k) fluoranthene	74.8		µg/l	2.50				40-140		
Benzo (a) pyrene	79.2		µg/l	2.50				40-140		
Indeno (1,2,3-cd) pyrene	93.2		µg/l	2.50				40-140		
Dibenzo (a,h) anthracene	93.5		µg/l	2.50				40-140		
Benzo (g,h,i) perylene	82.3		µg/l	2.50				40-140		
Naphthalene (aliphatic fraction)	0.000100		µg/l					0-200		
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l					0-200		
Surrogate: 1-Chlorooctadecane	38.2		µg/l		50.0		76	40-140		
Surrogate: Ortho-Terphenyl	27.2		µg/l		50.0		54	40-140		
Surrogate: 2-Fluorobiphenyl	22.6		µg/l		40.0		57	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8080917-BSD1)</u>										
Prepared: 13-Aug-08 Analyzed: 15-Aug-08										
C9-C18 Aliphatic Hydrocarbons	0.324		mg/l	0.2	0.600		54	40-140	0.9	25
C19-C36 Aliphatic Hydrocarbons	0.489		mg/l	0.2	0.800		61	40-140	4	25
C11-C22 Aromatic Hydrocarbons	1.15		mg/l	0.2	1.70		68	40-140	22	25
Naphthalene	44.3	QR5	µg/l	2.50	100		44	40-140	49	20
2-Methylnaphthalene	45.7	QR5	µg/l	2.50	100		46	40-140	46	20
Acenaphthylene	54.4	QR5	µg/l	2.50	100		54	40-140	42	20
Acenaphthene	55.7	QR5	µg/l	2.50	100		56	40-140	35	20
Fluorene	60.1	QR5	µg/l	2.50	100		60	40-140	26	20
Phenanthrene	64.7		µg/l	2.50	100		65	40-140	6	20
Anthracene	62.3	QR5	µg/l	2.50	100		62	40-140	21	20
Fluoranthene	63.0		µg/l	2.50	100		63	40-140	11	20
Pyrene	63.5		µg/l	2.50	100		63	40-140	12	20
Benzo (a) anthracene	68.8		µg/l	2.50	100		69	40-140	7	20

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080917 - SW846 3510C										
<u>LCS Dup (8080917-BSD1)</u>										
Prepared: 13-Aug-08 Analyzed: 15-Aug-08										
Chrysene	63.7		µg/l	2.50	100		64	40-140	10	20
Benzo (b) fluoranthene	66.3		µg/l	2.50	100		66	40-140	2	20
Benzo (k) fluoranthene	64.0		µg/l	2.50	100		64	40-140	0.06	20
Benzo (a) pyrene	63.0		µg/l	2.50	100		63	40-140	8	20
Indeno (1,2,3-cd) pyrene	87.5	QR5	µg/l	2.50	100		87	40-140	21	20
Dibenzo (a,h) anthracene	88.0	QR5	µg/l	2.50	100		88	40-140	24	20
Benzo (g,h,i) perylene	79.5	QR5	µg/l	2.50	100		79	40-140	25	20
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	30.6		µg/l		50.0		61	40-140		
Surrogate: Ortho-Terphenyl	27.3		µg/l		50.0		55	40-140		
Surrogate: 2-Fluorobiphenyl	23.7		µg/l		40.0		59	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8081254 - SW846 3545A										
<u>Blank (8081254-BLK1)</u>										
Prepared & Analyzed: 16-Aug-08										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/kg wet	13.4						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Naphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Acenaphthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Naphthalene (aliphatic fraction)	0.00		µg/kg wet							
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet							
Surrogate: 1-Chlorooctadecane	3180		µg/kg wet		3330		95	40-140		
Surrogate: Ortho-Terphenyl	2070		µg/kg wet		3330		62	40-140		
Surrogate: 2-Fluorobiphenyl	1690		µg/kg wet		2670		63	40-140		
<u>LCS (8081254-BS1)</u>										
Prepared & Analyzed: 16-Aug-08										
C9-C18 Aliphatic Hydrocarbons	19.9		mg/kg wet	13.4	40.0		50	40-140		
C19-C36 Aliphatic Hydrocarbons	33.7		mg/kg wet	13.4	53.3		63	40-140		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081254 - SW846 3545A										
<u>LCS (8081254-BS1)</u>										
Prepared & Analyzed: 16-Aug-08										
C11-C22 Aromatic Hydrocarbons	67.3		mg/kg wet	13.4	113		59	40-140		
Naphthalene	2710		µg/kg wet	66.5	6670		41	40-140		
2-Methylnaphthalene	2730		µg/kg wet	66.5	6670		41	40-140		
Acenaphthylene	3030		µg/kg wet	66.5	6670		45	40-140		
Acenaphthene	3210		µg/kg wet	66.5	6670		48	40-140		
Fluorene	3490		µg/kg wet	66.5	6670		52	40-140		
Phenanthrene	4020		µg/kg wet	66.5	6670		60	40-140		
Anthracene	3870		µg/kg wet	66.5	6670		58	40-140		
Fluoranthene	4000		µg/kg wet	66.5	6670		60	40-140		
Pyrene	4010		µg/kg wet	66.5	6670		60	40-140		
Benzo (a) anthracene	4310		µg/kg wet	66.5	6670		65	40-140		
Chrysene	3900		µg/kg wet	66.5	6670		59	40-140		
Benzo (b) fluoranthene	4550		µg/kg wet	66.5	6670		68	40-140		
Benzo (k) fluoranthene	3790		µg/kg wet	66.5	6670		57	40-140		
Benzo (a) pyrene	3810		µg/kg wet	66.5	6670		57	40-140		
Indeno (1,2,3-cd) pyrene	5050		µg/kg wet	66.5	6670		76	40-140		
Dibenzo (a,h) anthracene	5000		µg/kg wet	66.5	6670		75	40-140		
Benzo (g,h,i) perylene	4700		µg/kg wet	66.5	6670		70	40-140		
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	2430		µg/kg wet		3330		73	40-140		
Surrogate: Ortho-Terphenyl	1720		µg/kg wet		3330		52	40-140		
Surrogate: 2-Fluorobiphenyl	1600		µg/kg wet		2670		60	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (8081254-BS2)</u>										
Prepared & Analyzed: 16-Aug-08										
C9-C18 Aliphatic Hydrocarbons	24.3		mg/kg wet	13.4	40.0		61	40-140		
C19-C36 Aliphatic Hydrocarbons	39.0		mg/kg wet	13.4	53.3		73	40-140		
C11-C22 Aromatic Hydrocarbons	86.0		mg/kg wet	13.4	113		76	40-140		
Naphthalene	3320		µg/kg wet	66.5	6670		50	40-140		
2-Methylnaphthalene	3530		µg/kg wet	66.5	6670		53	40-140		
Acenaphthylene	4150		µg/kg wet	66.5	6670		62	40-140		
Acenaphthene	4320		µg/kg wet	66.5	6670		65	40-140		
Fluorene	4650		µg/kg wet	66.5	6670		70	40-140		
Phenanthrene	5170		µg/kg wet	66.5	6670		78	40-140		
Anthracene	4940		µg/kg wet	66.5	6670		74	40-140		
Fluoranthene	5120		µg/kg wet	66.5	6670		77	40-140		
Pyrene	5060		µg/kg wet	66.5	6670		76	40-140		
Benzo (a) anthracene	5510		µg/kg wet	66.5	6670		83	40-140		
Chrysene	4790		µg/kg wet	66.5	6670		72	40-140		
Benzo (b) fluoranthene	4510		µg/kg wet	66.5	6670		68	40-140		
Benzo (k) fluoranthene	5580		µg/kg wet	66.5	6670		84	40-140		
Benzo (a) pyrene	4940		µg/kg wet	66.5	6670		74	40-140		
Indeno (1,2,3-cd) pyrene	6730		µg/kg wet	66.5	6670		101	40-140		
Dibenzo (a,h) anthracene	6640		µg/kg wet	66.5	6670		100	40-140		
Benzo (g,h,i) perylene	6130		µg/kg wet	66.5	6670		92	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
Surrogate: 1-Chlorooctadecane	2780		µg/kg wet		3330		84	40-140		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081254 - SW846 3545A										
<u>LCS (8081254-BS2)</u>										
Prepared & Analyzed: 16-Aug-08										
Surrogate: Ortho-Terphenyl	2170		µg/kg wet		3330		65	40-140		
Surrogate: 2-Fluorobiphenyl	1770		µg/kg wet		2670		66	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (8081254-BSD1)</u>										
Prepared & Analyzed: 16-Aug-08										
C9-C18 Aliphatic Hydrocarbons	20.9		mg/kg wet	13.4	40.0		52	40-140	5	25
C19-C36 Aliphatic Hydrocarbons	36.9		mg/kg wet	13.4	53.3		69	40-140	9	25
C11-C22 Aromatic Hydrocarbons	67.3		mg/kg wet	13.4	113		59	40-140	0	25
Naphthalene	2750		µg/kg wet	66.5	6670		41	40-140	2	30
2-Methylnaphthalene	2880		µg/kg wet	66.5	6670		43	40-140	5	30
Acenaphthylene	3060		µg/kg wet	66.5	6670		46	40-140	1	30
Acenaphthene	3230		µg/kg wet	66.5	6670		49	40-140	0.7	30
Fluorene	3490		µg/kg wet	66.5	6670		52	40-140	0.2	30
Phenanthrene	4120		µg/kg wet	66.5	6670		62	40-140	3	30
Anthracene	3860		µg/kg wet	66.5	6670		58	40-140	0.3	30
Fluoranthene	4000		µg/kg wet	66.5	6670		60	40-140	0	30
Pyrene	4050		µg/kg wet	66.5	6670		61	40-140	1	30
Benzo (a) anthracene	4400		µg/kg wet	66.5	6670		66	40-140	2	30
Chrysene	3970		µg/kg wet	66.5	6670		60	40-140	2	30
Benzo (b) fluoranthene	4070		µg/kg wet	66.5	6670		61	40-140	11	30
Benzo (k) fluoranthene	4070		µg/kg wet	66.5	6670		61	40-140	7	30
Benzo (a) pyrene	3860		µg/kg wet	66.5	6670		58	40-140	1	30
Indeno (1,2,3-cd) pyrene	5030		µg/kg wet	66.5	6670		75	40-140	0.4	30
Dibenzo (a,h) anthracene	4880		µg/kg wet	66.5	6670		73	40-140	2	30
Benzo (g,h,i) perylene	4620		µg/kg wet	66.5	6670		69	40-140	2	30
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	2990		µg/kg wet		3330		90	40-140		
Surrogate: Ortho-Terphenyl	1720		µg/kg wet		3330		52	40-140		
Surrogate: 2-Fluorobiphenyl	1520		µg/kg wet		2670		57	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
Batch 8081518 - SW846 3545A										
<u>Blank (8081518-BLK1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Ligroin	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	2.33		mg/kg wet		3.33		70	40-140		
<u>LCS (8081518-BS1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081518 - SW846 3545A										
<u>LCS (8081518-BS1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Fuel Oil #2	882		mg/kg wet	13.3	867		102	40-140		
Surrogate: 1-Chlorooctadecane	3.19		mg/kg wet		3.33		96	40-140		
<u>Duplicate (8081518-DUP1)</u> Source: SA83340-01										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Gasoline	BRL		mg/kg dry	30.1		BRL				50
Fuel Oil #2	BRL		mg/kg dry	30.1		BRL				50
Fuel Oil #4	BRL		mg/kg dry	30.1		BRL				50
Fuel Oil #6	BRL		mg/kg dry	30.1		BRL				50
Motor Oil	BRL		mg/kg dry	30.1		BRL				50
Ligroin	BRL		mg/kg dry	30.1		BRL				50
Aviation Fuel	BRL		mg/kg dry	30.1		BRL				50
Unidentified	99.2	QM4	mg/kg dry	30.1		27.0			114	50
Other Oil	Calculated as		mg/kg dry	30.1		BRL				50
Total Petroleum Hydrocarbons	99.2	QM4	mg/kg dry	30.1		27.0			114	50
Surrogate: 1-Chlorooctadecane	2.30		mg/kg dry		3.77		61	40-140		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8081462 - SW846 3050B										
<u>Blank (8081462-BLK1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	BRL		mg/kg wet	1.39						
Lead	BRL		mg/kg wet	1.39						
Silver	BRL		mg/kg wet	1.39						
Chromium	BRL		mg/kg wet	0.929						
Arsenic	BRL		mg/kg wet	1.39						
Cadmium	BRL		mg/kg wet	0.464						
Barium	BRL		mg/kg wet	0.929						
<u>Duplicate (8081462-DUP1)</u> Source: SA83011-02										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	BRL		mg/kg dry	1.78		BRL				20
Lead	15.1		mg/kg dry	1.78		15.1			0.05	20
Arsenic	2.28		mg/kg dry	1.78		1.92			17	20
Silver	BRL		mg/kg dry	1.78		BRL				20
Chromium	13.6		mg/kg dry	1.19		13.6			0.1	20
Cadmium	1.16	QR8	mg/kg dry	0.594		0.776			40	20
Barium	317	QR6	mg/kg dry	1.19		174			58	20
<u>Matrix Spike (8081462-MS1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	130		mg/kg dry	1.68	140	BRL	93	75-125		
Lead	126		mg/kg dry	1.68	140	3.53	88	75-125		
Arsenic	137		mg/kg dry	1.68	140	3.33	96	75-125		
Chromium	148		mg/kg dry	1.12	140	11.9	97	75-125		
Silver	128		mg/kg dry	1.68	140	BRL	91	75-125		
Cadmium	136		mg/kg dry	0.560	140	0.266	97	75-125		
Barium	260		mg/kg dry	1.12	140	104	112	75-125		
<u>Matrix Spike Dup (8081462-MSD1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	138		mg/kg dry	1.75	146	BRL	95	75-125	6	20
Lead	134		mg/kg dry	1.75	146	3.53	89	75-125	6	20
Chromium	156		mg/kg dry	1.17	146	11.9	99	75-125	5	20
Silver	135		mg/kg dry	1.75	146	BRL	92	75-125	5	20
Arsenic	146		mg/kg dry	1.75	146	3.33	98	75-125	6	20
Cadmium	145		mg/kg dry	0.583	146	0.266	99	75-125	6	20
Barium	270		mg/kg dry	1.17	146	104	114	75-125	4	20
<u>Post Spike (8081462-PS1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	134		mg/kg dry	1.66	138	BRL	97	80-120		
Lead	129		mg/kg dry	1.66	138	3.53	91	80-120		
Chromium	146		mg/kg dry	1.11	138	11.9	97	80-120		
Arsenic	141		mg/kg dry	1.66	138	3.33	99	80-120		
Silver	131		mg/kg dry	1.66	138	BRL	95	80-120		
Cadmium	141		mg/kg dry	0.553	138	0.266	102	80-120		
Barium	220		mg/kg dry	1.11	138	104	84	80-120		
<u>Reference (8081462-SRM1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	72.8		mg/kg wet	1.50	76.4		95	67.1-132.6		
Lead	106		mg/kg wet	1.50	116		92	75.3-125.1		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081462 - SW846 3050B										
<u>Reference (8081462-SRM1)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Silver	17.2		mg/kg wet	1.50	18.3		94	65.6-134.4		
Arsenic	116		mg/kg wet	1.50	117		99	71.1-128.9		
Chromium	62.5		mg/kg wet	1.00	64.4		97	69.9-129.8		
Cadmium	35.0		mg/kg wet	0.500	35.9		97	73.2-126.8		
Barium	274		mg/kg wet	1.00	293		93	74.7-125.5		
<u>Reference (8081462-SRM2)</u>										
Prepared: 20-Aug-08 Analyzed: 21-Aug-08										
Selenium	76.5		mg/kg wet	1.50	73.5		104	67.1-132.6		
Lead	110		mg/kg wet	1.50	112		98	75.3-125.1		
Silver	18.3		mg/kg wet	1.50	17.6		104	65.6-134.4		
Arsenic	122		mg/kg wet	1.50	113		108	71.1-128.9		
Chromium	65.8		mg/kg wet	1.00	62.0		106	69.9-129.8		
Cadmium	35.8		mg/kg wet	0.500	34.6		104	73.2-126.8		
Barium	282		mg/kg wet	1.00	283		100	74.7-125.5		
Batch 8081463 - EPA200/SW7000 Series										
<u>Blank (8081463-BLK1)</u>										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	BRL		mg/kg wet	0.0292						
<u>Duplicate (8081463-DUP1)</u> Source: SA83011-02										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.0805		mg/kg dry	0.0345		0.0962			18	20
<u>Matrix Spike (8081463-MS1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.552		mg/kg dry	0.0334	0.464	BRL	119	75-125		
<u>Matrix Spike Dup (8081463-MSD1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.567		mg/kg dry	0.0353	0.490	BRL	116	75-125	3	20
<u>Post Spike (8081463-PS1)</u> Source: SA83011-03										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	9.82		mg/kg dry		8.50	0.0394	115	80-120		
<u>Reference (8081463-SRM1)</u>										
Prepared: 20-Aug-08 Analyzed: 22-Aug-08										
Mercury	1.27		mg/kg wet	0.0300	1.30		98	51.1-148.9		

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* Reportable Detection Limit

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081354 - SW846 3005A										
<u>Blank (8081354-BLK1)</u>										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	BRL		mg/l	0.0075						
Selenium	BRL		mg/l	0.0150						
Silver	BRL		mg/l	0.0050						
Arsenic	BRL		mg/l	0.0040						
Cadmium	BRL		mg/l	0.0025						
Barium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0050						
<u>LCS (8081354-BS1)</u>										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	1.25		mg/l	0.0075	1.25		100	85-115		
Selenium	1.26		mg/l	0.0150	1.25		101	85-115		
Silver	1.24		mg/l	0.0050	1.25		99	85-115		
Arsenic	1.27		mg/l	0.0040	1.25		102	85-115		
Barium	1.21		mg/l	0.0050	1.25		97	85-115		
Cadmium	1.38		mg/l	0.0025	1.25		110	85-115		
Chromium	1.32		mg/l	0.0050	1.25		106	85-115		
<u>LCS Dup (8081354-BSD1)</u>										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	1.23		mg/l	0.0075	1.25		99	85-115	1	20
Selenium	1.24		mg/l	0.0150	1.25		99	85-115	2	20
Arsenic	1.25		mg/l	0.0040	1.25		100	85-115	2	20
Silver	1.22		mg/l	0.0050	1.25		97	85-115	2	20
Cadmium	1.37		mg/l	0.0025	1.25		110	85-115	0.7	20
Barium	1.20		mg/l	0.0050	1.25		96	85-115	1	20
Chromium	1.30		mg/l	0.0050	1.25		104	85-115	2	20
<u>Duplicate (8081354-DUP1)</u> Source: SA82991-01										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	BRL		mg/l	0.0075		BRL				20
Selenium	BRL		mg/l	0.0150		BRL				20
Barium	0.0154		mg/l	0.0050		0.0156			2	20
Arsenic	BRL		mg/l	0.0040		BRL				20
Cadmium	BRL		mg/l	0.0025		BRL				20
Silver	BRL		mg/l	0.0050		BRL				20
Chromium	BRL		mg/l	0.0050		BRL				20
<u>Matrix Spike (8081354-MS1)</u> Source: SA82991-02										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	1.24		mg/l	0.0075	1.25	BRL	99	75-125		
Selenium	1.31		mg/l	0.0150	1.25	BRL	105	75-125		
Silver	1.24		mg/l	0.0050	1.25	BRL	100	75-125		
Cadmium	1.37		mg/l	0.0025	1.25	BRL	110	75-125		
Arsenic	1.32		mg/l	0.0040	1.25	BRL	106	75-125		
Barium	1.44		mg/l	0.0050	1.25	0.0652	110	75-125		
Chromium	1.30		mg/l	0.0050	1.25	BRL	104	75-125		
<u>Matrix Spike Dup (8081354-MSD1)</u> Source: SA82991-03										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	1.22		mg/l	0.0075	1.25	BRL	97	75-125	2	20
Selenium	1.28		mg/l	0.0150	1.25	BRL	103	75-125	2	20

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* Reportable Detection Limit

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081354 - SW846 3005A										
<u>Matrix Spike Dup (8081354-MSD1)</u> Source: SA82991-02										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Cadmium	1.34		mg/l	0.0025	1.25	BRL	107	75-125	2	20
Barium	1.38		mg/l	0.0050	1.25	0.0652	105	75-125	4	20
Silver	1.22		mg/l	0.0050	1.25	BRL	97	75-125	2	20
Arsenic	1.30		mg/l	0.0040	1.25	BRL	104	75-125	2	20
Chromium	1.28		mg/l	0.0050	1.25	BRL	102	75-125	2	20
<u>Post Spike (8081354-PS1)</u> Source: SA82991-02										
Prepared: 19-Aug-08 Analyzed: 21-Aug-08										
Lead	1.22		mg/l	0.0075	1.25	BRL	98	80-120		
Selenium	1.27		mg/l	0.0150	1.25	BRL	102	80-120		
Arsenic	1.30		mg/l	0.0040	1.25	BRL	104	80-120		
Cadmium	1.35		mg/l	0.0025	1.25	BRL	108	80-120		
Silver	1.23		mg/l	0.0050	1.25	BRL	98	80-120		
Barium	1.35		mg/l	0.0050	1.25	0.0652	103	80-120		
Chromium	1.28		mg/l	0.0050	1.25	BRL	103	80-120		

Soluble Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8081355 - EPA200/SW7000 Series										
<u>Blank (8081355-BLK1)</u>										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	BRL		mg/l	0.00020						
<u>LCS (8081355-BS1)</u>										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.00449		mg/l	0.00020	0.00500		90	85-115		
<u>Duplicate (8081355-DUP1)</u> Source: SA82991-03										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (8081355-MS1)</u> Source: SA82991-04										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.00472		mg/l	0.00020	0.00500	BRL	94	75-125		
<u>Matrix Spike Dup (8081355-MSD1)</u> Source: SA82991-04										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.00481		mg/l	0.00020	0.00500	BRL	96	75-125	2	20
<u>Post Spike (8081355-PS1)</u> Source: SA82991-04										
Prepared: 19-Aug-08 Analyzed: 22-Aug-08										
Mercury	0.00464		mg/l	0.00020	0.00500	BRL	93	85-115		

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* Reportable Detection Limit

BRL = Below Reporting Limit

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8081864 - SW846 3010A									
<u>Blank (8081864-BLK1)</u>									
Prepared & Analyzed: 25-Aug-08									
Lead	BRL		mg/l	0.0150					
Selenium	BRL		mg/l	0.0300					
Arsenic	BRL		mg/l	0.0080					
Chromium	BRL		mg/l	0.0100					
Silver	BRL		mg/l	0.0100					
Cadmium	BRL		mg/l	0.0050					
Barium	BRL		mg/l	0.0100					
<u>LCS (8081864-BS1)</u>									
Prepared & Analyzed: 25-Aug-08									
Lead	2.61		mg/l	0.0150	2.50		105 78.1-115		
Selenium	2.63		mg/l	0.0300	2.50		105 85.8-127		
Chromium	2.58		mg/l	0.0100	2.50		103 87.7-114		
Silver	2.70		mg/l	0.0100	2.50		108 89.2-122		
Arsenic	2.46		mg/l	0.0080	2.50		98 86-119		
Cadmium	2.66		mg/l	0.0050	2.50		106 89.7-116		
Barium	2.56		mg/l	0.0100	2.50		103 85.5-117		
<u>LCS Dup (8081864-BSD1)</u>									
Prepared & Analyzed: 25-Aug-08									
Lead	2.59		mg/l	0.0150	2.50		104 78.1-115	0.8	20
Selenium	2.62		mg/l	0.0300	2.50		105 85.8-127	0.6	20
Chromium	2.57		mg/l	0.0100	2.50		103 87.7-114	0.6	20
Arsenic	2.47		mg/l	0.0080	2.50		99 86-119	0.5	20
Silver	2.69		mg/l	0.0100	2.50		107 89.2-122	0.6	104
Cadmium	2.65		mg/l	0.0050	2.50		106 89.7-116	0.5	20
Barium	2.57		mg/l	0.0100	2.50		103 85.5-117	0.1	20
<u>Duplicate (8081864-DUP1)</u> Source: SA83464-06									
Prepared & Analyzed: 25-Aug-08									
Lead	0.0725	QR6	mg/l	0.0150		0.0539		29	20
Selenium	BRL		mg/l	0.0300		BRL			20
Arsenic	BRL		mg/l	0.0080		BRL			20
Chromium	BRL		mg/l	0.0100		BRL			20
Silver	BRL		mg/l	0.0100		BRL			20
Cadmium	0.0005	J	mg/l	0.0050		BRL			20
Barium	0.548		mg/l	0.0100		0.474		15	20
<u>Matrix Spike (8081864-MS1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Lead	2.91		mg/l	0.0150	2.50	0.274	105 67.2-124		
Selenium	2.75		mg/l	0.0300	2.50	BRL	110 87.6-128		
Chromium	2.57		mg/l	0.0100	2.50	BRL	103 81.8-116		
Silver	2.80		mg/l	0.0100	2.50	BRL	112 74.3-132		
Arsenic	2.58		mg/l	0.0080	2.50	BRL	103 89-117		
Cadmium	2.70		mg/l	0.0050	2.50	0.0011	108 82.8-119		
Barium	3.48		mg/l	0.0100	2.50	0.818	106 86.2-115		
<u>Matrix Spike Dup (8081864-MSD1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Lead	2.91		mg/l	0.0150	2.50	0.274	105 67.2-124	0.1	20
Selenium	2.74		mg/l	0.0300	2.50	BRL	110 87.6-128	0.3	20

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TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8081864 - SW846 3010A									
<u>Matrix Spike Dup (8081864-MSD1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Chromium	2.53		mg/l	0.0100	2.50	BRL	101 81.8-116	2	20
Arsenic	2.54		mg/l	0.0080	2.50	BRL	102 89-117	1	20
Silver	2.78		mg/l	0.0100	2.50	BRL	111 74.3-132	1	20
Cadmium	2.66		mg/l	0.0050	2.50	0.0011	106 82.8-119	1	20
Barium	3.48		mg/l	0.0100	2.50	0.818	106 86.2-115	0	20
<u>Post Spike (8081864-PS1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Lead	2.89		mg/l		2.50	0.274	105 64.4-126		
Selenium	2.70		mg/l		2.50	0.0069	108 87.9-127		
Chromium	2.62		mg/l		2.50	0.0014	105 78.1-119		
Arsenic	2.53		mg/l		2.50	0.0029	101 87.4-120		
Silver	2.76		mg/l		2.50	0.0007	110 92.3-122		
Cadmium	2.69		mg/l		2.50	0.0011	108 78.7-123		
Barium	3.33		mg/l		2.50	0.818	100 83.2-118		
Batch 8081866 - EPA200/SW7000 Series									
<u>Blank (8081866-BLK1)</u>									
Prepared & Analyzed: 25-Aug-08									
Mercury	BRL		mg/l	0.00020					
<u>LCS (8081866-BS1)</u>									
Prepared & Analyzed: 25-Aug-08									
Mercury	0.00455		mg/l	0.00020	0.00500		91 57-119		
<u>Duplicate (8081866-DUP1)</u> Source: SA83464-06									
Prepared & Analyzed: 25-Aug-08									
Mercury	BRL		mg/l	0.00020		BRL			20
<u>Matrix Spike (8081866-MS1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Mercury	0.00423		mg/l	0.00020	0.00500	0.00010	82 54.7-121		
<u>Matrix Spike Dup (8081866-MSD1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Mercury	0.00438		mg/l	0.00020	0.00500	0.00010	86 54.7-121	3	20
<u>Post Spike (8081866-PS1)</u> Source: SA83486-03									
Prepared & Analyzed: 25-Aug-08									
Mercury	4.19		mg/l		5.00	0.105	82 54.5-122		
Batch 8082164 - SW846 3010A									
<u>Blank (8082164-BLK1)</u>									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	BRL		mg/l	0.0150					
Selenium	BRL		mg/l	0.0300					
Arsenic	BRL		mg/l	0.0080					
Silver	BRL		mg/l	0.0100					
Chromium	BRL		mg/l	0.0100					
Cadmium	BRL		mg/l	0.0050					
Barium	BRL		mg/l	0.0100					
<u>LCS (8082164-BS1)</u>									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									

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* Reportable Detection Limit

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TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 8082164 - SW846 3010A									
<u>LCS (8082164-BS1)</u>									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	2.36		mg/l	0.0150	2.50		95 78.1-115		
Selenium	2.81		mg/l	0.0300	2.50		113 85.8-127		
Silver	2.48		mg/l	0.0100	2.50		99 89.2-122		
Chromium	2.57		mg/l	0.0100	2.50		103 87.7-114		
Arsenic	2.63		mg/l	0.0080	2.50		105 86-119		
Cadmium	2.61		mg/l	0.0050	2.50		104 89.7-116		
Barium	2.52		mg/l	0.0100	2.50		101 85.5-117		
<u>LCS Dup (8082164-BSD1)</u>									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	2.33		mg/l	0.0150	2.50		93 78.1-115	1	20
Selenium	2.82		mg/l	0.0300	2.50		113 85.8-127	0.2	20
Chromium	2.51		mg/l	0.0100	2.50		100 87.7-114	3	20
Arsenic	2.65		mg/l	0.0080	2.50		106 86-119	0.6	20
Silver	2.42		mg/l	0.0100	2.50		97 89.2-122	3	104
Cadmium	2.58		mg/l	0.0050	2.50		103 89.7-116	1	20
Barium	2.48		mg/l	0.0100	2.50		99 85.5-117	2	20
<u>Duplicate (8082164-DUP1)</u> Source: SA83629-08									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	0.0285		mg/l	0.0150		0.0248		14	20
Selenium	BRL		mg/l	0.0300		BRL			20
Chromium	0.0066	J	mg/l	0.0100		0.0065		2	20
Arsenic	BRL		mg/l	0.0080		BRL			20
Silver	BRL		mg/l	0.0100		BRL			20
Cadmium	0.0009	J	mg/l	0.0050		0.0008		18	20
Barium	0.359		mg/l	0.0100		0.357		0.6	20
<u>Matrix Spike (8082164-MS1)</u> Source: SA83659-02									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	2.47		mg/l	0.0150	2.50	0.0915	95 67.2-124		
Selenium	2.77		mg/l	0.0300	2.50	BRL	111 87.6-128		
Chromium	2.56		mg/l	0.0100	2.50	BRL	103 81.8-116		
Arsenic	2.64		mg/l	0.0080	2.50	0.0068	105 89-117		
Silver	2.45		mg/l	0.0100	2.50	BRL	98 74.3-132		
Cadmium	2.59		mg/l	0.0050	2.50	0.0025	104 82.8-119		
Barium	3.45		mg/l	0.0100	2.50	0.934	101 86.2-115		
<u>Matrix Spike Dup (8082164-MSD1)</u> Source: SA83659-02									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	2.41		mg/l	0.0150	2.50	0.0915	93 67.2-124	2	20
Selenium	2.68		mg/l	0.0300	2.50	BRL	107 87.6-128	3	20
Arsenic	2.56		mg/l	0.0080	2.50	0.0068	102 89-117	3	20
Chromium	2.48		mg/l	0.0100	2.50	BRL	99 81.8-116	3	20
Silver	2.35		mg/l	0.0100	2.50	BRL	94 74.3-132	4	20
Cadmium	2.53		mg/l	0.0050	2.50	0.0025	101 82.8-119	3	20
Barium	3.35		mg/l	0.0100	2.50	0.934	97 86.2-115	3	20
<u>Post Spike (8082164-PS1)</u> Source: SA83659-02									
Prepared: 28-Aug-08 Analyzed: 29-Aug-08									
Lead	2.40		mg/l		2.50	0.0915	92 64.4-126		
Selenium	2.69		mg/l		2.50	0.0046	107 87.9-127		

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* Reportable Detection Limit

BRL = Below Reporting Limit

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 8082164 - SW846 3010A										
<u>Post Spike (8082164-PS1)</u> Source: SA83659-02										
Prepared: 28-Aug-08 Analyzed: 29-Aug-08										
Silver	2.38		mg/l		2.50	0.0018	95	92.3-122		
Arsenic	2.56		mg/l		2.50	0.0068	102	87.4-120		
Chromium	2.47		mg/l		2.50	0.0026	99	78.1-119		
Cadmium	2.52		mg/l		2.50	0.0025	101	78.7-123		
Barium	3.32		mg/l		2.50	0.934	95	83.2-118		
Batch 8082165 - EPA200/SW7000 Series										
<u>Blank (8082165-BLK1)</u>										
Prepared & Analyzed: 28-Aug-08										
Mercury	BRL		mg/l	0.00020						
<u>LCS (8082165-BS1)</u>										
Prepared & Analyzed: 28-Aug-08										
Mercury	0.00396		mg/l	0.00020	0.00500		79	57-119		
<u>Duplicate (8082165-DUP1)</u> Source: SA83629-08										
Prepared & Analyzed: 28-Aug-08										
Mercury	BRL		mg/l	0.00020		BRL				20
<u>Matrix Spike (8082165-MS1)</u> Source: SA83659-02										
Prepared & Analyzed: 28-Aug-08										
Mercury	0.00423		mg/l	0.00020	0.00500	BRL	85	54.7-121		
<u>Matrix Spike Dup (8082165-MSD1)</u> Source: SA83659-02										
Prepared & Analyzed: 28-Aug-08										
Mercury	0.00394		mg/l	0.00020	0.00500	BRL	79	54.7-121	7	20
<u>Post Spike (8082165-PS1)</u> Source: SA83659-02										
Prepared & Analyzed: 28-Aug-08										
Mercury	4.01		mg/l		5.00	0.00600	80	54.5-122		

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* Reportable Detection Limit

BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8080891 - General Preparation										
<u>Duplicate (8080891-DUP1)</u> Source: SA82953-01										
Prepared & Analyzed: 12-Aug-08										
% Solids	82.7		%			87.2			5	20
Batch 8080992 - General Preparation										
<u>LCS (8080992-BS1)</u>										
Prepared & Analyzed: 13-Aug-08										
Specific Conductance (EC)	149		uS/cm		147		101	95-105		
<u>Duplicate (8080992-DUP1)</u> Source: SA82973-01										
Prepared & Analyzed: 13-Aug-08										
Specific Conductance (EC)	250		uS/cm			249			0.4	5
<u>Reference (8080992-SRM1)</u>										
Prepared & Analyzed: 13-Aug-08										
Specific Conductance (EC)	192		uS/cm		200		96	80-120		
<u>Reference (8080992-SRM2)</u>										
Prepared & Analyzed: 13-Aug-08										
Specific Conductance (EC)	196		uS/cm		200		98	80-120		
Batch 8081324 - General Preparation										
<u>Duplicate (8081324-DUP1)</u> Source: SA82973-01										
Prepared & Analyzed: 18-Aug-08										
Resistivity	5630		ohm.cm			5650			0.4	200
<u>Reference (8081324-SRM1)</u>										
Prepared & Analyzed: 18-Aug-08										
Resistivity	6840		ohm.cm		6800		101	90-110		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810452				
Calibration Check (S810452-CCV1)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11		-4.5	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11		-7.9	25.00
C11-C22 Aromatic Hydrocarbons	13511.78		-8.2	25.00
Naphthalene	6.217946	5.785201	-7.0	20.00
2-Methylnaphthalene	4.092208	3.684742	-10.0	20.00
Acenaphthylene	6.037243	5.731177	-5.1	20.00
Acenaphthene	3.908366	3.795132	-2.9	20.00
Fluorene	4.275738	4.257553	-0.4	20.00
Phenanthrene	5.336175	5.939298	11.3	20.00
Anthracene	5.765483	5.566758	-3.4	20.00
Fluoranthene	5.879659	5.940298	1.0	20.00
Pyrene	6.127688	6.003704	-2.0	20.00
Benzo (a) anthracene	4.566415	5.284472	15.7	20.00
Chrysene	5.948033	5.643189	-5.1	20.00
Benzo (b) fluoranthene	2.997073	2.705425	-9.7	20.00
Benzo (k) fluoranthene	6.353309	6.314756	-0.6	20.00
Benzo (a) pyrene	4.513487	4.108678	-9.0	20.00
Indeno (1,2,3-cd) pyrene	4.512285	4.854794	7.6	20.00
Dibenzo (a,h) anthracene	3.722303	3.997009	7.4	20.00
Benzo (g,h,i) perylene	4.441284	4.262163	-4.0	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	16355.44	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810452				
Calibration Check (S810452-CCV2)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11		7.7	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11		-4.9	25.00
C11-C22 Aromatic Hydrocarbons	13511.78		-7.6	25.00
Naphthalene	6.217946	5.641544	-9.3	20.00
2-Methylnaphthalene	4.092208	3.632644	-11.2	20.00
Acenaphthylene	6.037243	5.8346	-3.4	20.00
Acenaphthene	3.908366	3.766133	-3.6	20.00
Fluorene	4.275738	4.22667	-1.1	20.00
Phenanthrene	5.336175	5.796715	8.6	20.00
Anthracene	5.765483	5.585338	-3.1	20.00
Fluoranthene	5.879659	5.9757	1.6	20.00
Pyrene	6.127688	6.168049	0.7	20.00
Benzo (a) anthracene	4.566415	4.863676	6.5	20.00
Chrysene	5.948033	5.552191	-6.7	20.00
Benzo (b) fluoranthene	2.997073	2.892113	-3.5	20.00
Benzo (k) fluoranthene	6.353309	6.473098	1.9	20.00
Benzo (a) pyrene	4.513487	4.19867	-7.0	20.00
Indeno (1,2,3-cd) pyrene	4.512285	4.89822	8.6	20.00
Dibenzo (a,h) anthracene	3.722303	3.980783	6.9	20.00
Benzo (g,h,i) perylene	4.441284	4.352898	-2.0	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	16355.44	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810522				
Calibration Check (S810522-CCV1)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11	2.60041E+08	7.7	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11	2.362546E+08	-3.9	25.00
C11-C22 Aromatic Hydrocarbons	13511.78	13.87688	-5.9	25.00
Naphthalene	6.217946	5.819695	-6.4	20.00
2-Methylnaphthalene	4.092208	3.747343	-8.4	20.00
Acenaphthylene	6.037243	5.935026	-1.7	20.00
Acenaphthene	3.908366	3.911965	0.09	20.00
Fluorene	4.275738	4.397624	2.9	20.00
Phenanthrene	5.336175	5.813385	8.9	20.00
Anthracene	5.765483	5.653464	-1.9	20.00
Fluoranthene	5.879659	5.933763	0.9	20.00
Pyrene	6.127688	5.976756	-2.5	20.00
Benzo (a) anthracene	4.566415	4.858777	6.4	20.00
Chrysene	5.948033	5.260245	-11.6	20.00
Benzo (b) fluoranthene	2.997073	3.048785	1.7	20.00
Benzo (k) fluoranthene	6.353309	5.485286	-13.7	20.00
Benzo (a) pyrene	4.513487	3.977569	-11.9	20.00
Indeno (1,2,3-cd) pyrene	4.512285	5.165682	14.5	20.00
Dibenzo (a,h) anthracene	3.722303	4.389367	17.9	20.00
Benzo (g,h,i) perylene	4.441284	4.847848	9.2	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	16355.44	1	-100	

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810600				
Calibration Check (S810600-CCV1)				
C9-C18 Aliphatic Hydrocarbons	2.780222E+11	2.256135E+08	-7.7	25.00
C19-C36 Aliphatic Hydrocarbons	4.256275E+11	2.402184E+08	-1.9	25.00
C11-C22 Aromatic Hydrocarbons	13511.78	14.05237	-4.7	25.00
Naphthalene	6.217946	5.888441	-5.3	20.00
2-Methylnaphthalene	4.092208	3.801641	-7.1	20.00
Acenaphthylene	6.037243	5.946849	-1.5	20.00
Acenaphthene	3.908366	3.877738	-0.8	20.00
Fluorene	4.275738	4.317444	1.0	20.00
Phenanthrene	5.336175	5.772821	8.2	20.00
Anthracene	5.765483	5.598684	-2.9	20.00
Fluoranthene	5.879659	5.764827	-2.0	20.00
Pyrene	6.127688	5.9666	-2.6	20.00
Benzo (a) anthracene	4.566415	4.710236	3.1	20.00
Chrysene	5.948033	5.110753	-14.1	20.00
Benzo (b) fluoranthene	2.997073	3.083999	2.9	20.00
Benzo (k) fluoranthene	6.353309	5.491239	-13.6	20.00
Benzo (a) pyrene	4.513487	4.314712	-4.4	20.00
Indeno (1,2,3-cd) pyrene	4.512285	5.192827	15.1	20.00
Dibenzo (a,h) anthracene	3.722303	4.411688	18.5	20.00
Benzo (g,h,i) perylene	4.441284	4.790938	7.9	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	16355.44	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Batch S810648

Calibration Check (S810648-CCV1)

gamma-BHC (Lindane)	1.553456	1.541537	-0.8	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.541011	-6.7	15.00
Heptachlor	1.496653	1.525866	2.0	15.00
Heptachlor [2C]	1.647997	1.516156	-8.0	15.00
Heptachlor epoxide	1.25889	1.218684	-3.2	15.00
Heptachlor Epoxide [2C]	1.39597	1.289809	-7.6	15.00
Dieldrin	1.223816	1.23777	1.1	15.00
Dieldrin [2C]	1.376967	1.26164	-8.4	15.00
4,4'-DDE (p,p')	1.182727	1.222903	3.4	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.212925	-7.3	15.00
Endrin	1.072408	1.046911	-2.4	15.00
Endrin [2C]	1.244939	1.130406	-9.2	15.00
4,4'-DDD (p,p')	1.008081	0.9992968	-0.9	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.02966	-4.8	15.00
4,4'-DDT (p,p')	0.9553523	0.9342039	-2.2	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.009114	-11.5	15.00
Methoxychlor	0.4958803	0.4948267	-0.2	15.00
Methoxychlor [2C]	0.6278387	0.5749793	-8.4	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.788548	13.8	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.516984	0.7	
Decachlorobiphenyl (Sr)	1.349608	1.296334	-3.9	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.575808	-4.3	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810648				
Calibration Check (S810648-CCV2)				
gamma-BHC (Lindane)	1.553456	1.529593	-1.5	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.553807	-5.9	15.00
Heptachlor	1.496653	1.536799	2.7	15.00
Heptachlor [2C]	1.647997	1.539093	-6.6	15.00
Heptachlor epoxide	1.25889	1.261554	0.2	15.00
Heptachlor Epoxide [2C]	1.39597	1.312917	-5.9	15.00
Dieldrin	1.223816	1.272465	4.0	15.00
Dieldrin [2C]	1.376967	1.292729	-6.1	15.00
4,4'-DDE (p,p')	1.182727	1.241585	5.0	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.252695	-4.3	15.00
Endrin	1.072408	1.097272	2.3	15.00
Endrin [2C]	1.244939	1.170573	-6.0	15.00
4,4'-DDD (p,p')	1.008081	1.044982	3.7	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.057998	-2.2	15.00
4,4'-DDT (p,p')	0.9553523	0.9657231	1.1	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.071685	-6.0	15.00
Methoxychlor	0.4958803	0.49614	0.05	15.00
Methoxychlor [2C]	0.6278387	0.5991446	-4.6	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.622234	3.2	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.528657	1.5	
Decachlorobiphenyl (Sr)	1.349608	1.358724	0.7	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.530368	-7.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810688				
Calibration Check (S810688-CCV1)				
2,4,5-TP (Silvex)	0.8060038	0.7538998	-6.5	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.6826199	-0.004	15.00
2,4-D	0.1937576	0.1860306	-4.0	15.00
2,4-D [2C]	0.1593393	0.1593791	0.02	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	1.032598	-9.4	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.090053	1.4	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810688				
Calibration Check (S810688-CCV2)				
2,4,5-TP (Silvex)	0.8060038	0.8496731	5.4	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.6540287	-4.2	15.00
2,4-D	0.1937576	0.198404	2.4	15.00
2,4-D [2C]	0.1593393	0.153578	-3.6	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	1.105302	-3.0	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.021879	-5.0	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810826				
Calibration Check (S810826-CCV1)				
2,4,5-TP (Silvex)	0.8060038	0.7255886	-10.0	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.710007	4.0	15.00
2,4-D	0.1937576	0.1822173	-6.0	15.00
2,4-D [2C]	0.1593393	0.1710108	7.3	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	0.9846817	-13.6	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.092714	1.6	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810826				
Calibration Check (S810826-CCV2)				
2,4,5-TP (Silvex)	0.8060038	0.80033	-0.7	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.6466094	-5.3	15.00
2,4-D	0.1937576	0.2024545	4.5	15.00
2,4-D [2C]	0.1593393	0.1790653	12.4	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	1.138411	-0.07	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.088608	1.2	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810836				
Calibration Check (S810836-CCV1)				
gamma-BHC (Lindane)	1.553456	1.51041	-2.8	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.617472	-2.1	15.00
Heptachlor	1.496653	1.473817	-1.5	15.00
Heptachlor [2C]	1.647997	1.617472	-1.9	15.00
Heptachlor epoxide	1.25889	1.261619	0.2	15.00
Heptachlor Epoxide [2C]	1.39597	1.404089	0.6	15.00
Dieldrin	1.223816	1.244164	1.7	15.00
Dieldrin [2C]	1.376967	1.43197	4.0	15.00
4,4'-DDE (p,p')	1.182727	1.246898	5.4	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.4	7.0	15.00
Endrin	1.072408	1.04143	-2.9	15.00
Endrin [2C]	1.244939	1.308178	5.1	15.00
4,4'-DDD (p,p')	1.008081	1.06204	5.4	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.223048	13.0	15.00
4,4'-DDT (p,p')	0.9553523	0.8643533	-9.5	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.188104	4.2	15.00
Methoxychlor	0.4958803	0.456572	-7.9	15.00
Methoxychlor [2C]	0.6278387	0.666171	6.1	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.725026	9.7	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.585502	5.2	
Decachlorobiphenyl (Sr)	1.349608	1.325973	-1.8	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.767658	7.4	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810836				
Calibration Check (S810836-CCV2)				
gamma-BHC (Lindane)	1.553456	1.549277	-0.3	15.00
gamma-BHC (Lindane) [2C]	1.651905	1.587267	-3.9	15.00
Heptachlor	1.496653	1.502411	0.4	15.00
Heptachlor [2C]	1.647997	1.596584	-3.1	15.00
Heptachlor epoxide	1.25889	1.301446	3.4	15.00
Heptachlor Epoxide [2C]	1.39597	1.357453	-2.8	15.00
Dieldrin	1.223816	1.252652	2.4	15.00
Dieldrin [2C]	1.376967	1.332298	-3.2	15.00
4,4'-DDE (p,p')	1.182727	1.244552	5.2	15.00
4,4'-DDE (p,p') [2C]	1.308923	1.302174	-0.5	15.00
Endrin	1.072408	0.9955641	-7.2	15.00
Endrin [2C]	1.244939	1.189441	-4.5	15.00
4,4'-DDD (p,p')	1.008081	1.057666	4.9	15.00
4,4'-DDD (p,p') [2C]	1.082085	1.106832	2.3	15.00
4,4'-DDT (p,p')	0.9553523	0.8144648	-14.7	15.00
4,4'-DDT (p,p') [2C]	1.13994	1.08354	-4.9	15.00
Methoxychlor	0.4958803	0.435487	-12.2	15.00
Methoxychlor [2C]	0.6278387	0.5801242	-7.6	15.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	
4,4-DB-Octafluorobiphenyl (Sr)	1.572305	1.621022	3.1	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.506753	1.562112	3.7	
Decachlorobiphenyl (Sr)	1.349608	1.303279	-3.4	
Decachlorobiphenyl (Sr) [2C]	1.645862	1.542702	-6.3	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810892				
Calibration Check (S810892-CCV1)				
2,4,5-TP (Silvex)	0.8060038	0.824462	2.3	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.7564522	10.8	15.00
2,4-D	0.1937576	0.2078496	7.3	15.00
2,4-D [2C]	0.1593393	0.1571911	-1.3	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	1.128151	-1.0	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.257155	16.9	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810892				
Calibration Check (S810892-CCV2)				
2,4,5-TP (Silvex)	0.8060038	0.6858319	-14.9	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.6707993	-1.7	15.00
2,4-D	0.1937576	0.1744529	-10.0	15.00
2,4-D [2C]	0.1593393	0.1581973	-0.7	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	0.9594413	-15.8	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.103754	2.7	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810892				
Calibration Check (S810892-CCV3)				
2,4,5-TP (Silvex)	0.8060038	0.8265283	2.5	15.00
2,4,5-TP (Silvex) [2C]	0.6826467	0.6787765	-0.6	15.00
2,4-D	0.1937576	0.2124256	9.6	15.00
2,4-D [2C]	0.1593393	0.1566118	-1.7	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.13925	1.144106	0.4	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.075195	1.125742	4.7	
1-Bromo-2-Nitrobenzene	1	1	0.0	
1-Bromo-2-Nitrobenzene [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit

Batch S810465

Calibration Check (S810465-CCV1)

Benzene	161018.3	160767	-0.2	25.00
Ethylbenzene	113045.3	101672.8	-10.1	25.00
Methyl tert-butyl ether	52610.26	65625.92	2.3	25.00
Naphthalene	38487.3	33456.94	-13.1	25.00
Toluene	145051.7	131859.5	-9.1	25.00
m,p-Xylene	130486.5	127978.6	-1.9	25.00
o-Xylene	112284.8	109758.7	-2.2	25.00
2-Methylpentane	112139.2	116495.5	3.9	25.00
n-Nonane	133820.7	155905.3	16.5	30.00
n-Pentane	115875.8	123622	6.7	25.00
1,2,4-Trimethylbenzene	131909.9	125111.6	-5.2	25.00
2,2,4-Trimethylpentane	136529	129043.8	-5.5	25.00
n-Butylcyclohexane	132836.7	151768	14.3	25.00
n-Decane	121394.6	131633.7	8.4	25.00
2,5-Dibromotoluene (FID)	49192.75	47219.44	-4.0	
2,5-Dibromotoluene (PID)	89943.8	86686.3	-3.6	

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810551				
Calibration Check (S810551-CCV1)				
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.228392	0.2158207	-5.5	30.00
Acetone	3.409296E-02	2.865734E-02	0.4	30.00
Acrylonitrile	9.418615E-02	0.1052812	11.8	30.00
Benzene	1.113747	1.064084	-4.5	30.00
Bromobenzene	0.7176778	0.7369661	2.7	30.00
Bromochloromethane	9.911913E-02	0.1066064	7.6	30.00
Bromodichloromethane	0.3055031	0.3157722	3.4	30.00
Bromoform	0.2871818	0.3082628	7.3	30.00
Bromomethane	0.1775841	0.1980791	11.5	30.00
2-Butanone (MEK)	7.977608E-02	0.0926839	3.3	30.00
n-Butylbenzene	3.380983	3.296479	-2.5	30.00
sec-Butylbenzene	3.444567	3.698071	7.4	30.00
tert-Butylbenzene	2.21319	2.342415	5.8	30.00
Carbon disulfide	0.8259146	0.831704	0.7	30.00
Carbon tetrachloride	0.3300428	0.3259184	-1.2	30.00
Chlorobenzene	1.741448	1.649914	-5.3	30.00
Chloroethane	0.3000899	0.3144327	4.8	30.00
Chloroform	0.5077573	0.4675663	-7.9	20.00
Chloromethane	0.7083889	0.7496509	5.8	30.00
2-Chlorotoluene	2.144543	2.256127	5.2	30.00
4-Chlorotoluene	2.271873	2.357598	3.8	30.00
1,2-Dibromo-3-chloropropane	8.003325E-02	8.996628E-02	1.7	30.00
Dibromochloromethane	0.1687406	0.1904552	12.9	30.00
1,2-Dibromoethane (EDB)	0.1437523	0.1610711	12.0	30.00
Dibromomethane	0.1188596	0.1191467	0.2	30.00
1,2-Dichlorobenzene	1.418275	1.390108	-2.0	30.00
1,3-Dichlorobenzene	1.34026	1.330575	-0.7	30.00
1,4-Dichlorobenzene	1.642638	1.527287	-7.0	30.00
Dichlorodifluoromethane (Freon12)	0.2641745	0.2822555	6.8	30.00
1,1-Dichloroethane	0.6851586	0.6799527	-0.8	30.00
1,2-Dichloroethane	0.402524	0.3995354	-0.7	30.00
1,1-Dichloroethene	0.2275925	0.2253684	-1.0	20.00
cis-1,2-Dichloroethene	0.262866	0.2486391	-5.4	30.00
trans-1,2-Dichloroethene	0.2559575	0.2434092	-4.9	30.00
1,2-Dichloropropane	0.3790062	0.3727021	-1.7	20.00
1,3-Dichloropropane	0.3208839	0.3277567	2.1	30.00
2,2-Dichloropropane	0.3127738	0.2889247	-7.6	30.00
1,1-Dichloropropene	0.3728362	0.3638527	-2.4	30.00
cis-1,3-Dichloropropene	0.329987	0.3452276	4.6	30.00
trans-1,3-Dichloropropene	0.2618412	0.2828255	8.0	30.00
Ethylbenzene	3.406088	3.428862	0.7	20.00
Hexachlorobutadiene	0.9841725	0.9503934	-3.4	30.00
2-Hexanone (MBK)	0.1625403	0.1853678	14.0	30.00
Isopropylbenzene	2.933976	3.047011	3.9	30.00
4-Isopropyltoluene	3.240317	3.241034	0.02	30.00
Methyl tert-butyl ether	0.53392	0.5250663	-1.7	30.00
4-Methyl-2-pentanone (MIBK)	1.772654E-02	1.923789E-02	8.5	30.00
Methylene chloride	0.2736432	0.2813008	2.8	30.00
Naphthalene	1.079777	1.351198	-8.2	30.00
n-Propylbenzene	3.91225	4.155039	6.2	30.00
Styrene	1.801457	1.914221	6.3	30.00

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810551				
Calibration Check (S810551-CCV1)				
1,1,1,2-Tetrachloroethane	0.5127799	0.5106308	-0.4	30.00
1,1,2,2-Tetrachloroethane	0.5170899	0.552263	6.8	30.00
Tetrachloroethene	0.2449326	0.2435232	-0.6	30.00
Toluene	0.7446569	0.7284037	-2.2	20.00
1,2,3-Trichlorobenzene	0.9246949	0.9570294	3.5	30.00
1,2,4-Trichlorobenzene	1.077949	1.063713	-1.3	30.00
1,3,5-Trichlorobenzene	1.412567			30.00
1,1,1-Trichloroethane	0.3942477	0.3887337	-1.4	30.00
1,1,2-Trichloroethane	0.1477785	0.1567105	6.0	30.00
Trichloroethene	0.278894	0.2707128	-2.9	30.00
Trichlorofluoromethane (Freon 11)	0.3818472	0.4097529	7.3	30.00
1,2,3-Trichloropropane	0.3372939	0.3654593	8.4	30.00
1,2,4-Trimethylbenzene	2.530044	2.645394	4.6	30.00
1,3,5-Trimethylbenzene	2.555439	2.664683	4.3	30.00
Vinyl chloride	0.5002108	0.537806	7.5	20.00
m,p-Xylene	1.197135	1.224903	2.3	30.00
o-Xylene	1.162729	1.193456	2.6	30.00
Tetrahydrofuran	0.0692002	7.763559E-02	12.2	30.00
Ethyl ether	0.1166567	0.1161969	-0.4	30.00
Tert-amyl methyl ether	1.672553E-02	1.845413E-02	10.3	30.00
Ethyl tert-butyl ether	1.129862	1.150455	1.8	30.00
Di-isopropyl ether	1.522648	1.547311	1.6	30.00
Tert-Butanol / butyl alcohol	2.280102E-02	2.248126E-02	-1.4	30.00
trans-1,4-Dichloro-2-butene	0.1071781	0.1200586	-0.4	30.00
1,4-Dioxane	1.273121E-03	1.529056E-03	7.9	30.00
Ethanol	4.17733E-03	4.436116E-03	18.4	30.00
4-Bromofluorobenzene	0.8308923	0.8912725	7.3	
Toluene-d8	0.9370202	0.9663266	3.1	
1,2-Dichloroethane-d4	4.262029E-02	4.208111E-02	-1.3	
Dibromofluoromethane	0.2183329	0.2281899	4.5	
Fluorobenzene	1	1	0.0	
Chlorobenzene-d5	1	1	0.0	
1,4-Dichlorobenzene-d4	1	1	0.0	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S810690				
Calibration Check (S810690-CCV1)				
Benzene	161018.3	165711	2.9	25.00
Ethylbenzene	113045.3	110195	-2.5	25.00
Methyl tert-butyl ether	52610.26	66458.64	3.5	25.00
Naphthalene	38487.3	31988.3	-16.9	25.00
Toluene	145051.7	143411.4	-1.1	25.00
m,p-Xylene	130486.5	128685.7	-1.4	25.00
o-Xylene	112284.8	109452.1	-2.5	25.00
2-Methylpentane	112139.2	136492.9	21.7	25.00
n-Nonane	133820.7	157369.8	17.6	30.00
n-Pentane	115875.8	128710.8	11.1	25.00
1,2,4-Trimethylbenzene	131909.9	120918.5	-8.3	25.00
2,2,4-Trimethylpentane	136529	148788.1	9.0	25.00
n-Butylcyclohexane	132836.7	152768.1	15.0	25.00
n-Decane	121394.6	143786.7	18.4	25.00
2,5-Dibromotoluene (FID)	49192.75	23592.2	-52.0	
2,5-Dibromotoluene (PID)	89943.8	42824.46	-52.4	

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S811048				
Calibration Check (S811048-CCV1)				
Benzene	1.297052	1.265166	-2.5	30.00
2-Butanone (MEK)	3.292431E-02	3.515222E-02	6.8	30.00
Carbon tetrachloride	0.363282	0.3206658	-11.7	30.00
Chlorobenzene	1.572402	1.555735	-1.1	30.00
Chloroform	0.6098689	0.5426579	1.5	20.00
1,2-Dichloroethane	0.4113484	0.4089985	-0.6	30.00
1,1-Dichloroethene	0.3561803	0.4074595	14.4	20.00
Tetrachloroethene	0.276485	0.2732329	-1.2	30.00
Toluene	0.8396571	0.8088778	-3.7	20.00
Trichloroethene	0.3295097	0.3081352	-6.5	30.00
Vinyl chloride	0.2945369	0.3201501	8.7	20.00
4-Bromofluorobenzene	1.021101	0.9831269	-3.7	
Toluene-d8	1.163629	1.182834	1.7	
1,2-Dichloroethane-d4	0.2884915	0.282019	-2.2	
Dibromofluoromethane	0.269168	0.2776382	3.1	
Fluorobenzene	1	1	0.0	
Chlorobenzene-d5	1	1	0.0	
1,4-Dichlorobenzene-d4	1	1	0.0	

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
VOC6	The production of Acetone and other ketones is commonly seen when using the SW 846 5035A extraction technique.
Z-2	8081646-BLK2 (TCLP extraction fluid blank) was analyzed outside of the 12-hour BFB window.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
- Fuel Oil #4 - includes #4 fuel oil
- Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
- Motor Oil - includes virgin and waste automobile oil
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
- Aviation Fuel - includes kerosene, Jet A and JP-4
- Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja
Rebecca Merz

Matrix	Ground Water Soil		
Containers	☒ Satisfactory ☐ Broken ☐ Leaking		
Sample Preservative	Aqueous (acid-preserved)	☐ N/A ☒ pH $\leq$ 2 ☐ pH>2 Comment:	
	Soil or Sediment	☐ N/A ☐ Samples not received in Methanol or air-tight container	
		☒ Samples received in Methanol: ☒ covering soil/sediment ☐ not covering soil/sediment	
		☐ Samples received in air-tight container:	
Temperature	☐ Received on ice ☒ Received at 4 $\pm$ 2 $^{\circ}$ C ☐ Other: $^{\circ}$ C		

Matrix	Soil Ground Water				
Containers	☒ Satisfactory ☐ Broken ☐ Leaking				
Aqueous Preservative	☐ N/A	☒ pH $\leq$ 2	☐ pH>2	☐ pH adjusted to <2 in lab	Comment:
Temperature	☐ Received on ice ☒ Received at 4 ± 2 °C ☐ Other: °C				



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA		Project #: 02355-159	
Project Location: Spectra -J-2 Loop - Somerville, MA		MADEP RTN ¹ :	
This form provides certifications for the following data set: SA82973-01 through SA82973-10			
Sample matrices:	Aqueous Ground Water Soil		
MCP SW-846 Methods Used	☒ 8260B	☒ 8151A	☐ 8330
	☒ 8270C	☒ 8081A	☒ VPH
	☒ 8082	☐ 8021B	☒ EPH
	☒ 6010B	☒ 7470A/1A	
	☐ 6020	☐ 9014M ²	
	☐ 7000S ³	☐ 7196A	
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte			
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>			
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?		☒ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?		☒ Yes ☐ No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?		☒ Yes ☐ No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?		☒ Yes ☐ No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>			
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?		☒ Yes ☐ No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?		☐ Yes ☒ No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 9/2/2008			



CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: ENSR

Technology Park Dr.
Westford, MA 01876

Invoice To: _____

Project No.: 02355-157

Site Name: Spectra - 5-2 log

Location: Somerville

State: MA

Project Mgr.: Gary Cormier

P.O. No.: _____

RQN: _____

Sampler(s): Tom C. off

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=DI H₂O 10=none

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	pH, reactivity, flashpoint	Resistivity/conductivity	VPH	VOCs by 8260	TPH by 8100	RCRA 8 metals	PCB _s	EPA with Reporting of Target PAHs	Acid Base Neutral	SVOCs by 8270	QA Reporting Notes: (check if needed)	Other	State specific reporting standards:	
8297361	SB-5/110	8/8/08	1500	G	SO	10	1	1	1	1	X	X	X	X	X	X	X	X	X	X	Provide MA DEP MCR CAM Report	☒ Provide CT DEP RCP Report	QA/QC Reporting Level	Standard ☒ No QC ☐
-02	SB-52(10)		1040	G	SO	10	1	1	1	1	X	X	X	X	X	X	X	X	X	X				Lab filter materials
-03	SB-52(20)		1040	G	SO	10	1	1	1	1	X	X	X	X	X	X	X	X	X	X				sample
-04	SB-53(10)		1230	G	SO	10	1	1	1	1	X	X	X	X	X	X	X	X	X	X				
-05	SB-53(20)		1230	G	SO	10	1	1	1	1	X	X	X	X	X	X	X	X	X	X				
-06	SB-51		1500	C	SO	79/10	5	2			X	X	X	X	X	X	X	X	X	X				
-07	SB-52		1040	C	SO	79/10	5	2			X	X	X	X	X	X	X	X	X	X				
-08	SB-53		1230	C	SO	79/10	5	2			X	X	X	X	X	X	X	X	X	X				
-09	SB-53		1230	G	CW	2/10	3	1			X	X	X	X	X	X	X	X	X	X				
-10	Tip Blank						2	1			X	X	X	X	X	X	X	X	X	X				

☐ Fax results when available to () _____
E-mail to Cormier@ensr.com
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C

Relinquished by:

Received by:

Date:

Time:

Tom C. off

[Signature]

8/12/08 1515



SPECTRUM ANALYTICAL, INC.
Parametric
ANALYTICAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: ENSR

Technology Park Dr.
Westford, MA 01876

Invoice To: _____

Project Mgr.: Cheryl Cormier

P.O. No.: _____

RQN: _____

Project No.: 02355-157

Site Name: Spectra - 5-2 log

Location: Somerville

State: MA

Sampler(s): Tom Ceff

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
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8297341	SB-511(10)	8/8/08	1500	G	SO	10	1				X											
-02	SB-52(10)		1040	G	SO	10	1				X											
-03	SB-52(20)		1040	G	SO	10	1				X											
-04	SB-53(10)		1230	G	SO	10	1				X											
-05	SB-53(20)		1230	G	SO	10	1				X											
-06	SB-51		1500	C	SO	79/10	5	2			X											
-07	SB-52		1040	C	SO	79/10	5	2			X											
-08	SB-53		1230	C	SO	79/10	5	2			X											
-09	SB-53		1230	G	SO	79/10	5	2			X											
-10	Tip Blank			G	SO	79/10	5	2			X											

Relinquished by: Tom Ceff Date: 8/19/08 Time: 1515

Received by: [Signature] Date: 8/19/08 Time: 1830

EDD Format: 4-7

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C