CORPORATE ENVIRONMENTAL ADVISORS, INC.

MAG910214 GP.

PROUDLY CELEBRATING 20 YEARS Of Outstanding Service 1985 - 2005

March 16, 2006

US Environmental Protection Agency
RGP – NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 02114-2023

RE: NOI Submittal
United Gasoline Station
154 Main Street
Cherry Valley (Leicester), Massachusetts 01611
DEP Release Tracking No. 2-0443

To Whom It May Concern:

On behalf of C.K. Smith & Co., Inc., Corporate Environmental Advisors, Inc. (CEA) is submitting this Notice of Intent (NOI) for the above-referenced site. The NOI is being submitted in accordance with the new Remediation General Permit (RGP) application requirements. The RGP is requested for dewatering of gasoline tank and canopy footing excavations scheduled to begin on March 27, 2006 at the above-referenced site. The water shall be pumped into a frac tank and then pumped through bag filters and carbon vessels before being discharged to a stormwater catchbasin in Main Street. The stormwater system discharges to Smiths Pond. Influent and effluent water samples shall be collected before and after the treatment system and submitted to the EPA.

If you have any questions, please feel free to contact me at 508-835-8822 (Ext. 228).

Sincerely,

Michael J. Dziura, P.E.
Senior Environmental Engineer

Pc: Ms. Judith I. Smith, C.K. Smith & Co., Inc.
Bureau of Waste Site Cleanup, MADEP CERO
CEA File No. 2921-96

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**: United Gasoline Station		**Facility/site** address:		
Location of **facility/site**: longitude: 71°52'15" W latitude: 42°14'35" N	Facility SIC code(s): 4471	Street: 154 Main Street		
b) Name of **facility/site owner:** C.K. Smith & Co., Inc.		Town: Cherry Valley (Leicester)		
Email address of owner:		State: MA	Zip:01611-3108	County: Worcester
Telephone no.of facility/site **owner**: 508-753-1475				
Fax no. of facility/site **owner**: 508-799-7974		**Owner** is (check one): 1. Federal____ 2. State/Tribal____ 3. Private__X__ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: 99 Crescent Street				
Town: Worcester	State: MA	Zip: 01605	County: Worcester	
c) Legal name of **operator**: CEA	**Operator** telephone no: 508-835-8822			
	Operator fax no.: 508-835-8812	**Operator** email: ALAST@CEA-INC.COM		
Operator contact name and title: Adam Last, LSP				
Address of **operator** (if different from owner):	Street: 127 Hartwell Street			
Town: West Boylston	State: MA	Zip: 01583	County: Worcester	

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No_X_, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No_X_, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes X No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes X No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes_X_ No___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: RTN 2-443 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: MA DEP, Worcester, MA, 508-792-7650 BUREAU OF WASTE SITE CLEANUP	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N_X_, if Y, number: 2. phase I or II construction storm water general permit? Y___ N_X_, if Y, number: 3. individual NPDES permit? Y___ N_X_, if Y, number: 4. any other water quality related permit? Y___ N_X_, 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: Dewatering Gasoline Storage Tank Excavations AND CANOPY FOOTING EXCAVATIONS		
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 0.11 Average flow 0.04 Is maximum flow a **design value**? Y___ N X For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. 71°51'15"N lat. 42°14"35"W; 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_____? One Time Event Is discharge ongoing Yes____ No_____?	
c) Expected dates of discharge (mm/dd/yy): start 3/20/06 end 4/21/06		
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**		Effluent Limits
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**	
1. Total Suspended Solids		X	1	Grab	SM2540D	5,000	1,510,000				30,000
2. Total Residual Chlorine	X		1	Grab	HACH8167	20	< 20				20
3. Total Petroleum Hydrocarbons		X	1	Grab	EPA1664	5,000	2,100				5,000
4. Cyanide	X		1	Grab	9012A	10	< 10				10
5. Benzene		X	1	Grab	8260	0.5	2.4				5
6. Toluene		X	1	Grab	8260	0.5	26.7				---
7. Ethylbenzene		X	1	Grab	8260	0.5	73.7				---
8. (m,p,o) Xylenes		X	1	Grab	8260	0.5	370.4				---
9. Total BTEX[4]		X	1	Grab	8260	0.5	473.2				100

[4] BTEX = 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		Effluent Limits
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)	
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	X		1	Grab	504.1	0.01	< 0.01				0.05
11. Methyl-tert-Butyl Ether (MtBE)		X	1	Grab	8260B	0.5	36.6				70
12. tert-Butyl Alcohol (TBA)	X		1	Grab	8260B	10	< 10				---
13. tert-Amyl Methyl Ether (TAME)	X		1	Grab	8260B	0.5	< 0.5				----
14. Naphthalene		X	1	Grab	8260B	0.5	25.1				20
15. Carbon Tetra-chloride	X		1	Grab	8260B	0.5	< 0.5				4.4
16. 1,4 Dichlorobenzene	X		1	Grab	625	2	< 2				5
17. 1,2 Dichlorobenzene	X		1	Grab	625	2	< 2				600
18. 1,3 Dichlorobenzene	X		1	Grab	625	2	< 2				320
19. 1,1 Dichloroethane	X		1	Grab	8260B	0.5	< 0.5				70
20. 1,2 Dichloroethane	X		1	Grab	8260B	0.5	< 0.5				5
21. 1,1 Dichloroethylene	X		1	Grab	8260B	0.5	< 0.5				3.2
22. cis-1,2 Dichloro-ethylene	X		1	Grab	8260B	0.5	< 0.5				70
23. Dichloromethane (Methylene Chloride)	X		1	Grab	8260B	1	< 1.0				4.6
24. Tetrachloroethylene	X		1	Grab	8260B	0.5	< 0.5				5

[5] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	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	X		1	Grab	8260B	0.5	< 0.5				200
26. 1,1,2 Trichloroethane	X		1	Grab	8260B	0.5	< 0.5				5
27. Trichloroethylene	X		1	Grab	8260B	0.5	< 0.5				5
28. Vinyl Chloride	X		1	Grab	8260B	0.5	< 0.5				2
29. Acetone	X		1	Grab	8260B	10	< 10				
30. 1,4 Dioxane	X		1	Grab	8260B	20	< 20				
31. Total Phenols	X		1	Grab	625	1	< 1				300
32. Pentachlorophenol	X		1	Grab	625	1	< 1				1
33. Total Phthalates [6] (Phthalate esthers)	X		1	Grab	625	5	< 5				3 (5)
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	X		1	Grab	625	5	< 5				6
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	X		1	Grab	625	5	< 5				10
a. Benzo(a) Anthracene	X		1	Grab	625	5	< 5				5
b. Benzo(a) Pyrene	X		1	Grab	625	5	< 5				5
c. Benzo(b)Fluoranthene	X		1	Grab	625	5	< 5				5
d. Benzo(k) Fluoranthene	X		1	Grab	625	5	< 5				5
e. Chrysene	X		1	Grab	625	5	< 5				5

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	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	X		1	Grab	625	5	< 5				5
g. Indeno(1,2,3-cd) Pyrene	X		1	Grab	625	5	< 5				5
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	X		1	Grab	625	5	< 5				100
h. Acenaphthene	X		1	Grab	625	1	< 1				1
i. Acenaphthylene	X		1	Grab	625	5	< 5				5
j. Anthracene	X		1	Grab	625	5	< 5				5
k. Benzo(ghi) Perylene	X		1	Grab	625	5	< 5				5
l. Fluoranthene	X		1	Grab	625	1	< 1				1
m. Fluorene	X		1	Grab	625	5	< 5				5
n. Naphthalene-		X	1	Grab	625	2	124				20
o. Phenanthrene	X		1	Grab	625	5	< 5				5
p. Pyrene	X		1	Grab	625	5	< 5				5
37. Total Polychlorinated Biphenyls (PCBs)	X		1	Grab	608	0.235	< 0.235				0.5
38. Antimony	X		1	Grab	200.7	.6	< .6				5.6
39. Arsenic		X	1	Grab	200.7	4	572				10
40. Cadmium		X	1	Grab	200.7	1.2	4.7				0.5
41. Chromium III		X	1	Grab	200.7	2.5	113				48.8
42. Chromium VI	X		1	Grab	7196A	10	< 10				11.4

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	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		X	1	Grab	200.7	2.5	402				5.2
44. Lead		X	1	Grab	200.7	3	217				1.3
45. Mercury		X	1	Grab	245	0.2	0.24				0.9
46. Nickel		X	1	Grab	200.7	2.5	90				29
47. Selenium	X		1	Grab	200.7	7.5	<7.5				5
48. Silver		X	1	Grab	200.7	5	5				1.2
49. Zinc		X	1	Grab	200.7	2.5	951				66.6
50. Iron		X	1	Grab	200.7	375	86,300				1,000
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 X N	If yes, which metals? Arsenic, cadmium, chromium III, copper, lead, nickel, silver, zinc, iron
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: See Step 1 DF: 2	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 X N___ If "Yes," list which metals: SAME AS STEP 1

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:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank X	Air stripper	Oil/water separator	Equalization tanks	Bag filter X	GAC filter X
	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 20 Maximum flow rate of treatment system 50 Design flow rate of treatment system _____						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): None						

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 X	River/brook____	Wetlands____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Storm drain system to Lynde Brook to Smiths Pond						
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 N/A 0.05 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 X If yes, for which pollutant(s)? Is there a TMDL? Yes No X 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_X_
Has any consultation with the federal services been completed ? No_X_ or is consultation underway? ___ No_X_
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__X____ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No__X____

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.

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:

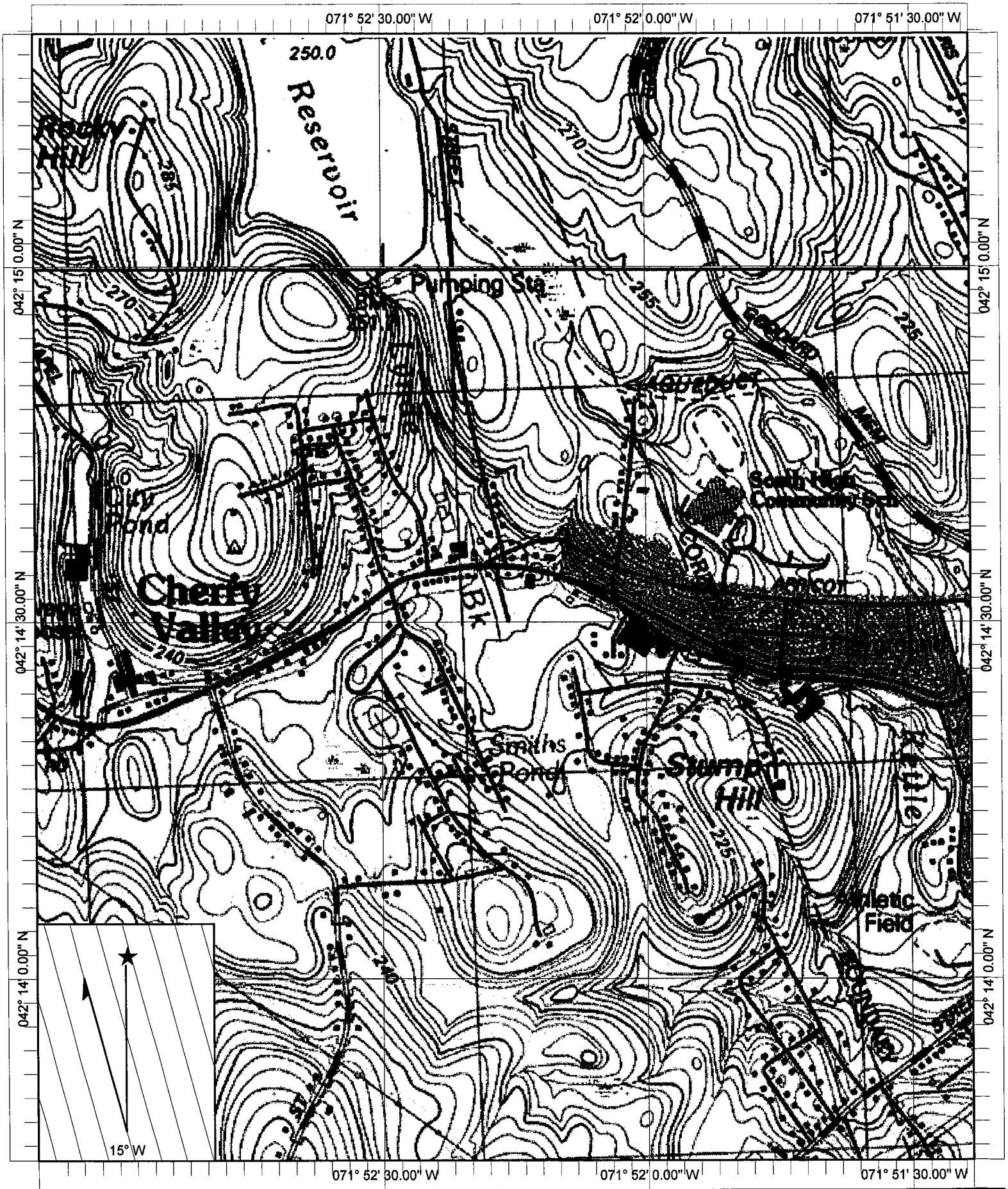
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: United Gasoline Station, 154 Main Street, Cherry Valley, MA

Operator signature: Adam J. Last

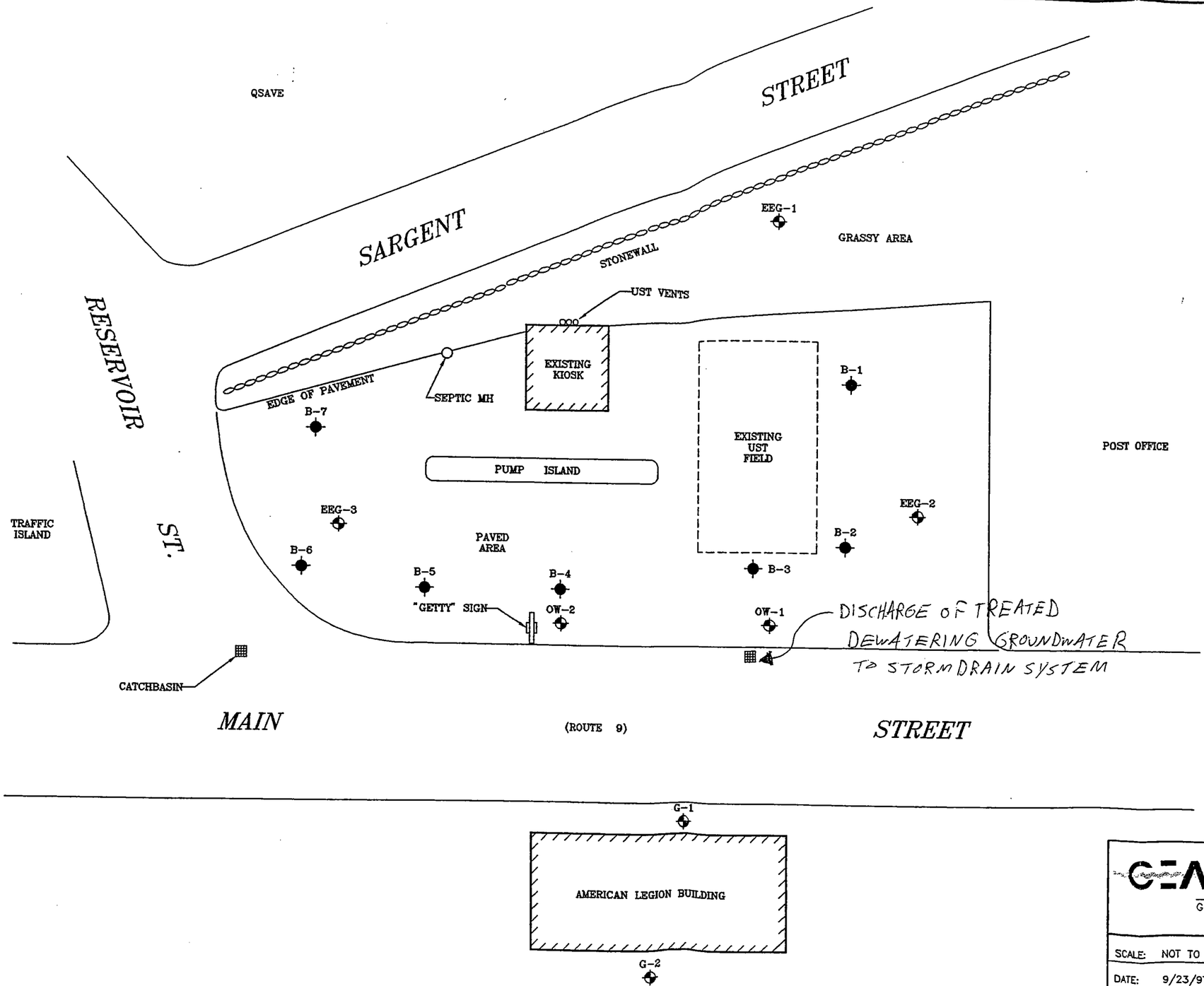
Title: Principal Engineer

Date: March 16, 2006



Name: WORCESTER SOUTH
Date: 3/2/2006
Scale: 1 inch equals 1000 feet

Location: 042° 14' 32.3" N 071° 52' 16.3" W
Caption: Figure 1 - Site Locus
United Gasoline Station, 154 Main Street
Cherry Valley (Leicester), MA



NOTE:
THIS PLAN IS COMPILED FROM RECORD PLANS AND FIELD MEASUREMENTS FOR THE SOLE PURPOSE OF REPRESENTING THE APPROXIMATE LOCATION OF SITE FEATURES AND UTILITIES.

CEA CORPORATE ENVIRONMENTAL ADVISORS, INC.
Groundwater – Geotechnical and Environmental Services
127 HARTWELL ST. W.BOYLSTON, MA.

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 9/23/97	APP. BY: MR	JOB NO.: 2921-96-2

SAMPLING PLAN

TERRA MATRIX
154 MAIN ST. (CHERRY VALLEY) LEICESTER, MA.

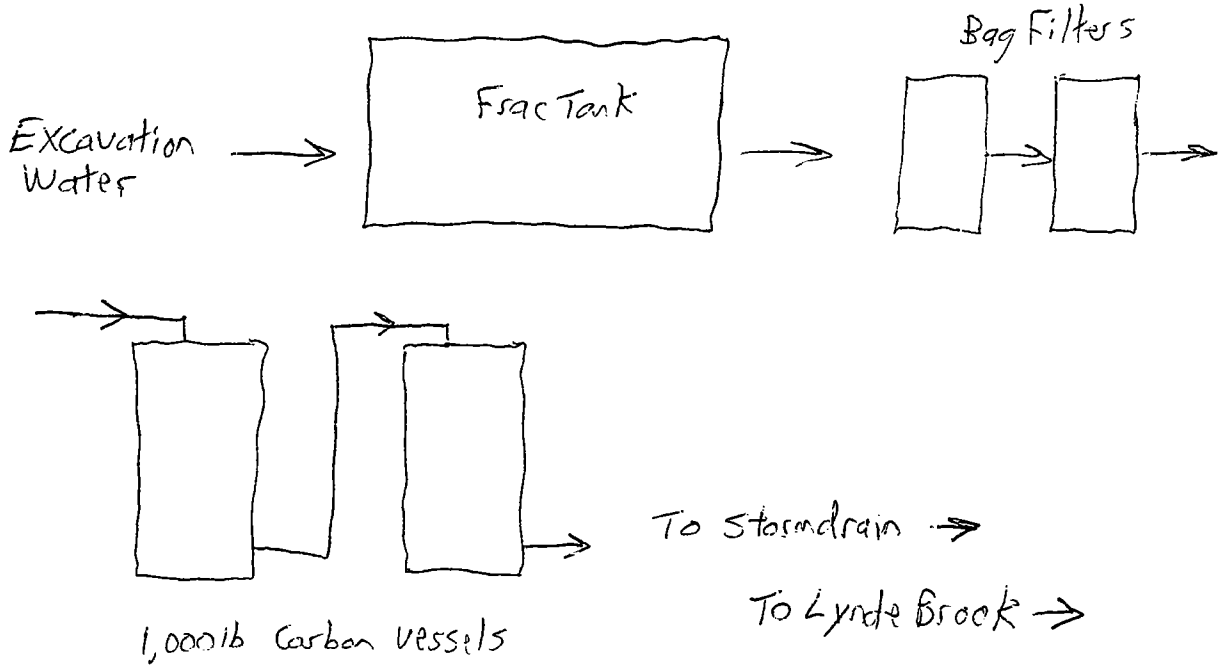
FIGURE-3

CK Smith Leicester, MA

Dewatering Treatment System

20,000-Gallon FracTank – Discharge groundwater from UST excavation into frac tank to settle out silt and oil/floatables.

Pump frac tank through bag filters (50 micron) and through two 1,000 pound carbon vessels.



CK Smith 2921-96 | 154 Main St, Cherry Valley (Leicester)

7 Day, 10 Year low flow of Cyrade Brook ≅ 0.05 cfs

$DF = (Qd + Qs)/Qd$

Qd = Discharge flow rate
Qs = Receiving water flow rate

1 gpm = 0.00223 cfs

0.05 cfs = 22.42 gpm

Max flow system = 50 gpm
Average flow system = 20 gpm

$DF = \frac{(50 + 22.42)}{50} = 1.45$

$DF = \frac{(20 + 22.42)}{20} = 2.1$

$5.1 = \frac{(Qd + 22.42)}{Qd} = 5.1Qd - Qd = 4.1Qd = 22.42$

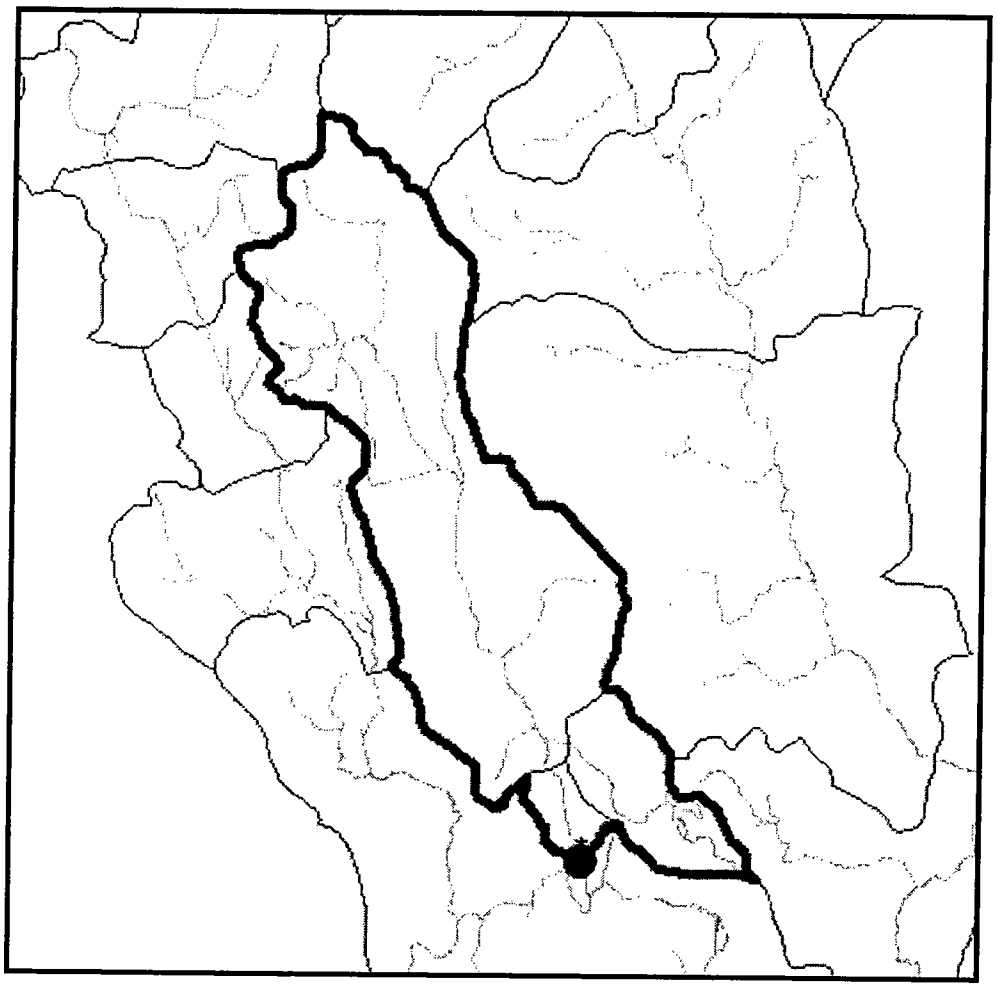
$Qd = 5.47$ GPM Max.

50,000 g. frac tank

20K/5 = 2.8 days to pump @ 5 GPM (67 hours)

20K/20 = 16.6 hours @ 20 GPM

Streamflow Statistics Report



Date: Thu Mar 09 16:41:32 2006
Latitude: 42.2431
Longitude: -71.8713
Measured Basin Characteristics:
Drainage Area (square miles): 3.33
Stratified Drift Area (square miles): 0.00
Stream Length (miles): 10.89
Slope (percent): 4.15
Region: 0

Statistic	Estimated streamflow, ft^3/s	90% Prediction interval	
		Minimum	Maximum

99-percent duration flow	0.04	0.00	0.22
98-percent duration flow	0.08	0.02	0.31
95-percent duration flow	0.13	0.03	0.47
90-percent duration flow	0.22	0.06	0.74
85-percent duration flow	0.35	0.10	1.14
80-percent duration flow	0.48	0.15	1.53
75-percent duration flow	0.69	0.21	2.23
70-percent duration flow	0.97	0.29	3.22
60-percent duration flow	2.03	0.73	5.66
50-percent duration flow	3.26	1.46	7.26
7-day, 2-year low flow	0.14	0.03	0.55
7-day, 10-year low flow	0.05	0.01	0.22
August median flow	0.35	0.11	1.17

U.S. Department of the Interior, U.S. Geological Survey
10 Bearfoot Road
Northborough, MA 01532
(508) 490-5000

Maintainer: webmaster@mass1.er.usgs.gov

Report Date:
10-Mar-06 15:37

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

CEA, Inc.
127 Hartwell Street
West Boylston, MA 01583
Attn: Scott Masse

Project: CK Smith - Leicester, MA
Project #: 2921-96

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA41559-01	OW-1	Ground Water	03-Mar-06 09:30	03-Mar-06 16:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 21 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 Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

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

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 indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Case Narrative:

Spectrum Analytical, Inc. performs quality control samples including standard reference materials, duplicates and matrix spikes for all applicable methods Reporting limits for some analytes are based on the percent recovery of the matrix spike. For SA41559-01, the matrix spike for the chlorine residual was recovered at > 80% at a dilution factor of 1000. Based on that result, the Reporting Level for chlorine residual was raised to account for matrix interference.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
OW-1 SA41559-01	2921-96	Ground Water	03-Mar-06 09:30	03-Mar-06

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
67-64-1	Acetone	BRL		µg/l	10.0	1	SW 846 8260B	08-Mar-06	08-Mar-06	6030441	RLJ
71-43-2	Benzene	2.4		µg/l	0.5	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/l	0.5	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	73.7		µg/l	0.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	36.6		µg/l	0.5	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/l	1.0	1	"	"	"	"	"
91-20-3	Naphthalene	25.1		µg/l	0.5	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
108-88-3	Toluene	26.7		µg/l	0.5	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/l	0.5	1	"	"	"	"	"
1330-20-7	m,p-Xylene	334		µg/l	1.0	1	"	"	"	"	"
95-47-6	o-Xylene	36.4		µg/l	0.5	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/l	0.5	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	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*88.2*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*84.2*		*70-130 %*			"	"	"	"	"
Microextractable Organic Compounds											
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100	1	EPA 504.1	07-Mar-06	08-Mar-06	6030340	SM
Extractable Petroleum Hydrocarbons											
	Non-polar material (SGT-HEM)	2.1		mg/l	1.0	1	EPA 1664	06-Mar-06	07-Mar-06	6030253	JK
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by EPA 608											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.235	1	EPA 608	07-Mar-06	07-Mar-06	6030342	TG
11104-28-2	PCB 1221	BRL		µg/l	0.235	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/l	0.235	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/l	0.235	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/l	0.235	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/l	0.235	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/l	0.235	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/l	0.235	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/l	0.235	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65.1*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*70.2*		*30-150 %*			"	"	"	"	"

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

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
OW-1 SA41559-01	2921-96	Ground Water	03-Mar-06 09:30	03-Mar-06

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by EPA 625											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	1.00	1	EPA 625	06-Mar-06	06-Mar-06	6030250	M.B
208-96-8	Acenaphthylene	BRL		µg/l	5.00	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.00	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.00	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.00	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.00	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	1.00	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/l	1.00	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/l	5.00	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	2.00	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	2.00	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	2.00	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/l	1.00	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/l	1.00	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	1.00	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/l	1.00	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/l	1.00	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/l	5.00	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/l	5.00	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	29.1		µg/l	5.00	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/l	1.00	1	"	"	"	"	"
108-39-4, 106-44-5	3,4-Methylphenol	BRL		µg/l	1.00	1	"	"	"	"	"
91-20-3	Naphthalene	124		µg/l	2.00	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/l	1.00	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/l	1.00	1	"	"	"	"	"
87-86-5	Pentachlorophenol	BRL		µg/l	1.00	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/l	5.00	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/l	1.00	1	"	"	"	"	"
129-00-0	Pyrene	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	1.00	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	1.00	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*59.2*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*43.9*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*66.5*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*32.1*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*61.9*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*66.7*		*15-110 %*			"	"	"	"	"

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
OW-1 SA41559-01	2921-96	Ground Water	03-Mar-06 09:30	03-Mar-06

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Total Metals by EPA 200 Series Methods											
7440-22-4	Silver	0.0055		mg/l	0.0050	1	EPA 200.7	06-Mar-06	06-Mar-06	6030213	RE
7440-38-2	Arsenic	0.572		mg/l	0.0040	1	"	"	"	"	"
7440-43-9	Cadmium	0.0047		mg/l	0.0012	1	"	"	"	"	"
7440-47-3	Chromium	0.113		mg/l	0.0025	1	"	"	"	"	"
7440-50-8	Copper	0.402		mg/l	0.0025	1	"	"	"	"	"
7439-89-6	Iron	86.3		mg/l	0.375	5	"	"	06-Mar-06	"	"
7439-97-6	Mercury	0.00024		mg/l	0.00020	1	EPA 245.1/7470A	"	07-Mar-06	6030233	YP
7440-02-0	Nickel	0.0900		mg/l	0.0025	1	EPA 200.7	"	06-Mar-06	6030213	RE
7439-92-1	Lead	0.217		mg/l	0.0030	1	"	"	"	"	"
7440-36-0	Antimony	BRL		mg/l	0.0060	1	"	"	"	"	"
7782-49-2	Selenium	BRL		mg/l	0.0075	1	"	"	"	"	"
7440-66-6	Zinc	0.951		mg/l	0.0025	1	"	"	"	"	"
General Chemistry Parameters											
1854-029-9	Hexavalent Chromium	BRL	R-01	mg/l	0.010	2	SM3500CrD/7196A	03-Mar-06 18:00	03-Mar-06	6030222	EK
57-12-5	Cyanide (total)	BRL		mg/l	0.0100	1	10-204-00-1-A / SW-846 9012A	07-Mar-06	07-Mar-06	6030385	AW
7782-50-5	Total Residual Chlorine	BRL	R-01	mg/l	20.0	1000	Hach 8167	03-Mar-06 18:45	03-Mar-06	6030305	"
	Total Suspended Solids	1,510		mg/l	10.0	2	SM2540D	06-Mar-06	07-Mar-06	6030304	JAK

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030441 - SW846 5030 Water MS										
Blank (6030441-BLK1)										
Prepared & Analyzed: 08-Mar-06										
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						
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						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030441 - SW846 5030 Water MS										
Blank (6030441-BLK1)										
Prepared & Analyzed: 08-Mar-06										
1,2,4-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						
Surrogate: 4-Bromofluorobenzene	*47.8*		µg/l		*50.0*		*95.6*	*70-130*		
Surrogate: Toluene-d8	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.1*		µg/l		*50.0*		*90.2*	*70-130*		
Surrogate: Dibromofluoromethane	*42.9*		µg/l		*50.0*		*85.8*	*70-130*		
LCS (6030441-BS1)										
Prepared & Analyzed: 08-Mar-06										
Acetone	38.4		µg/l		20.0		192	2.17-194		
Acrylonitrile	21.6		µg/l		20.0		108	70-130		
Benzene	18.3		µg/l		20.0		91.5	70-130		
Bromobenzene	20.2		µg/l		20.0		101	70-130		
Bromochloromethane	16.7		µg/l		20.0		83.5	70-130		
Bromodichloromethane	23.9		µg/l		20.0		120	70-130		
Bromoform	25.4		µg/l		20.0		127	70-130		
Bromomethane	24.9		µg/l		20.0		124	61.9-145		
2-Butanone (MEK)	23.0		µg/l		20.0		115	14.9-165		
n-Butylbenzene	20.4		µg/l		20.0		102	70-130		
sec-Butylbenzene	19.6		µg/l		20.0		98.0	70-130		
tert-Butylbenzene	19.2		µg/l		20.0		96.0	70-130		
Carbon disulfide	21.9		µg/l		20.0		110	70-130		
Carbon tetrachloride	22.3		µg/l		20.0		112	70-130		
Chlorobenzene	19.4		µg/l		20.0		97.0	70-130		
Chloroethane	20.1		µg/l		20.0		100	64.4-134		
Chloroform	16.8		µg/l		20.0		84.0	70-130		
Chloromethane	23.9		µg/l		20.0		120	70-130		
2-Chlorotoluene	19.4		µg/l		20.0		97.0	70-130		
4-Chlorotoluene	19.5		µg/l		20.0		97.5	70-130		
1,2-Dibromo-3-chloropropane	22.5		µg/l		20.0		112	70-130		
Dibromochloromethane	24.5		µg/l		20.0		122	45.3-146		
1,2-Dibromoethane (EDB)	21.0		µg/l		20.0		105	70-130		
Dibromomethane	20.8		µg/l		20.0		104	70-130		
1,2-Dichlorobenzene	20.4		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	19.7		µg/l		20.0		98.5	70-130		
1,4-Dichlorobenzene	19.6		µg/l		20.0		98.0	70-130		
Dichlorodifluoromethane (Freon12)	25.1		µg/l		20.0		126	49.6-201		
1,1-Dichloroethane	18.3		µg/l		20.0		91.5	70-130		
1,2-Dichloroethane	17.1		µg/l		20.0		85.5	70-130		
1,1-Dichloroethene	17.6		µg/l		20.0		88.0	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030441 - SW846 5030 Water MS										
LCS (6030441-BS1)										
Prepared & Analyzed: 08-Mar-06										
cis-1,2-Dichloroethene	17.4		µg/l		20.0		87.0	70-130		
trans-1,2-Dichloroethene	15.6		µg/l		20.0		78.0	70-130		
1,2-Dichloropropane	20.8		µg/l		20.0		104	70-130		
1,3-Dichloropropane	20.1		µg/l		20.0		100	70-130		
2,2-Dichloropropane	16.8		µg/l		20.0		84.0	70-130		
1,1-Dichloropropene	16.4		µg/l		20.0		82.0	70-130		
cis-1,3-Dichloropropene	20.2		µg/l		20.0		101	70-130		
trans-1,3-Dichloropropene	19.5		µg/l		20.0		97.5	70-130		
Ethylbenzene	20.2		µg/l		20.0		101	70-130		
Hexachlorobutadiene	19.8		µg/l		20.0		99.0	68.6-137		
2-Hexanone (MBK)	23.0		µg/l		20.0		115	70-130		
Isopropylbenzene	19.5		µg/l		20.0		97.5	70-130		
4-Isopropyltoluene	20.6		µg/l		20.0		103	70-130		
Methyl tert-butyl ether	17.6		µg/l		20.0		88.0	70-130		
4-Methyl-2-pentanone (MIBK)	21.1		µg/l		20.0		106	48.6-137		
Methylene chloride	17.3		µg/l		20.0		86.5	70-130		
Naphthalene	19.8		µg/l		20.0		99.0	70-130		
n-Propylbenzene	20.1		µg/l		20.0		100	70-130		
Styrene	20.0		µg/l		20.0		100	70-130		
1,1,1,2-Tetrachloroethane	22.6		µg/l		20.0		113	70-130		
1,1,2,2-Tetrachloroethane	21.1		µg/l		20.0		106	70-130		
Tetrachloroethene	19.2		µg/l		20.0		96.0	70-130		
Toluene	19.1		µg/l		20.0		95.5	70-130		
1,2,3-Trichlorobenzene	21.1		µg/l		20.0		106	70-130		
1,2,4-Trichlorobenzene	19.3		µg/l		20.0		96.5	70-130		
1,1,1-Trichloroethane	17.7		µg/l		20.0		88.5	70-130		
1,1,2-Trichloroethane	20.7		µg/l		20.0		104	70-130		
Trichloroethene	19.1		µg/l		20.0		95.5	70-130		
Trichlorofluoromethane (Freon 11)	21.2		µg/l		20.0		106	67.9-143		
1,2,3-Trichloropropane	22.5		µg/l		20.0		112	70-130		
1,2,4-Trimethylbenzene	19.6		µg/l		20.0		98.0	70-130		
1,3,5-Trimethylbenzene	19.0		µg/l		20.0		95.0	70-130		
Vinyl chloride	23.6		µg/l		20.0		118	70-130		
m,p-Xylene	39.3		µg/l		40.0		98.2	70-130		
o-Xylene	20.5		µg/l		20.0		102	70-130		
Tetrahydrofuran	17.4		µg/l		20.0		87.0	70-130		
Ethyl ether	20.5		µg/l		20.0		102	70-136		
Tert-amyl methyl ether	21.7		µg/l		20.0		108	70-130		
Ethyl tert-butyl ether	19.4		µg/l		20.0		97.0	70-130		
Di-isopropyl ether	17.4		µg/l		20.0		87.0	70-130		
Tert-Butanol / butyl alcohol	220		µg/l		200		110	70-130		
1,4-Dioxane	195		µg/l		200		97.5	36.5-156		
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/l		*50.0*		*99.8*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*43.3*		µg/l		*50.0*		*86.6*	*70-130*		
Surrogate: Dibromofluoromethane	*42.6*		µg/l		*50.0*		*85.2*	*70-130*		
LCS Dup (6030441-BSD1)										
Prepared & Analyzed: 08-Mar-06										
Acetone	37.9		µg/l		20.0		190	2.17-194	1.05	50
Acrylonitrile	20.9		µg/l		20.0		104	70-130	3.77	25
Benzene	16.9		µg/l		20.0		84.5	70-130	7.95	25
Bromobenzene	18.7		µg/l		20.0		93.5	70-130	7.71	25
Bromochloromethane	16.0		µg/l		20.0		80.0	70-130	4.28	25
Bromodichloromethane	22.7		µg/l		20.0		114	70-130	5.13	25
Bromoform	24.2		µg/l		20.0		121	70-130	4.84	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030441 - SW846 5030 Water MS										
LCS Dup (6030441-BSD1)										
Prepared & Analyzed: 08-Mar-06										
Bromomethane	24.0		µg/l		20.0		120	61.9-145	3.28	50
2-Butanone (MEK)	26.1		µg/l		20.0		130	14.9-165	12.2	50
n-Butylbenzene	18.0		µg/l		20.0		90.0	70-130	12.5	25
sec-Butylbenzene	17.9		µg/l		20.0		89.5	70-130	9.07	25
tert-Butylbenzene	17.3		µg/l		20.0		86.5	70-130	10.4	25
Carbon disulfide	19.4		µg/l		20.0		97.0	70-130	12.6	25
Carbon tetrachloride	19.6		µg/l		20.0		98.0	70-130	13.3	25
Chlorobenzene	18.6		µg/l		20.0		93.0	70-130	4.21	25
Chloroethane	17.9		µg/l		20.0		89.5	64.4-134	11.1	50
Chloroform	15.7		µg/l		20.0		78.5	70-130	6.77	25
Chloromethane	22.7		µg/l		20.0		114	70-130	5.13	25
2-Chlorotoluene	17.8		µg/l		20.0		89.0	70-130	8.60	25
4-Chlorotoluene	18.0		µg/l		20.0		90.0	70-130	8.00	25
1,2-Dibromo-3-chloropropane	20.6		µg/l		20.0		103	70-130	8.37	25
Dibromochloromethane	23.9		µg/l		20.0		120	45.3-146	1.65	50
1,2-Dibromoethane (EDB)	20.1		µg/l		20.0		100	70-130	4.88	25
Dibromomethane	20.1		µg/l		20.0		100	70-130	3.92	25
1,2-Dichlorobenzene	18.7		µg/l		20.0		93.5	70-130	8.70	25
1,3-Dichlorobenzene	18.6		µg/l		20.0		93.0	70-130	5.74	25
1,4-Dichlorobenzene	17.9		µg/l		20.0		89.5	70-130	9.07	25
Dichlorodifluoromethane (Freon12)	22.4		µg/l		20.0		112	49.6-201	11.8	50
1,1-Dichloroethane	16.6		µg/l		20.0		83.0	70-130	9.74	25
1,2-Dichloroethane	16.8		µg/l		20.0		84.0	70-130	1.77	25
1,1-Dichloroethene	15.6		µg/l		20.0		78.0	70-130	12.0	25
cis-1,2-Dichloroethene	16.3		µg/l		20.0		81.5	70-130	6.53	25
trans-1,2-Dichloroethene	14.3		µg/l		20.0		71.5	70-130	8.70	25
1,2-Dichloropropane	19.5		µg/l		20.0		97.5	70-130	6.45	25
1,3-Dichloropropane	20.0		µg/l		20.0		100	70-130	0.00	25
2,2-Dichloropropane	15.7		µg/l		20.0		78.5	70-130	6.77	25
1,1-Dichloropropene	14.7		µg/l		20.0		73.5	70-130	10.9	25
cis-1,3-Dichloropropene	19.2		µg/l		20.0		96.0	70-130	5.08	25
trans-1,3-Dichloropropene	18.8		µg/l		20.0		94.0	70-130	3.66	25
Ethylbenzene	18.6		µg/l		20.0		93.0	70-130	8.25	25
Hexachlorobutadiene	16.6		µg/l		20.0		83.0	68.6-137	17.6	50
2-Hexanone (MBK)	25.2		µg/l		20.0		126	70-130	9.13	25
Isopropylbenzene	17.8		µg/l		20.0		89.0	70-130	9.12	25
4-Isopropyltoluene	18.2		µg/l		20.0		91.0	70-130	12.4	25
Methyl tert-butyl ether	17.8		µg/l		20.0		89.0	70-130	1.13	25
4-Methyl-2-pentanone (MIBK)	21.4		µg/l		20.0		107	48.6-137	0.939	50
Methylene chloride	17.4		µg/l		20.0		87.0	70-130	0.576	25
Naphthalene	18.4		µg/l		20.0		92.0	70-130	7.33	25
n-Propylbenzene	18.4		µg/l		20.0		92.0	70-130	8.33	25
Styrene	18.6		µg/l		20.0		93.0	70-130	7.25	25
1,1,1,2-Tetrachloroethane	21.5		µg/l		20.0		108	70-130	4.52	25
1,1,2,2-Tetrachloroethane	21.3		µg/l		20.0		106	70-130	0.00	25
Tetrachloroethene	17.2		µg/l		20.0		86.0	70-130	11.0	25
Toluene	17.3		µg/l		20.0		86.5	70-130	9.89	25
1,2,3-Trichlorobenzene	18.7		µg/l		20.0		93.5	70-130	12.5	25
1,2,4-Trichlorobenzene	17.8		µg/l		20.0		89.0	70-130	8.09	25
1,1,1-Trichloroethane	16.4		µg/l		20.0		82.0	70-130	7.62	25
1,1,2-Trichloroethane	20.1		µg/l		20.0		100	70-130	3.92	25
Trichloroethene	17.9		µg/l		20.0		89.5	70-130	6.49	25
Trichlorofluoromethane (Freon 11)	18.4		µg/l		20.0		92.0	67.9-143	14.1	50
1,2,3-Trichloropropane	23.0		µg/l		20.0		115	70-130	2.64	25
1,2,4-Trimethylbenzene	18.2		µg/l		20.0		91.0	70-130	7.41	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030441 - SW846 5030 Water MS										
LCS Dup (6030441-BSD1)										
Prepared & Analyzed: 08-Mar-06										
1,3,5-Trimethylbenzene	17.8		µg/l		20.0		89.0	70-130	6.52	25
Vinyl chloride	20.9		µg/l		20.0		104	70-130	12.6	25
m,p-Xylene	36.8		µg/l		40.0		92.0	70-130	6.52	25
o-Xylene	19.0		µg/l		20.0		95.0	70-130	7.11	25
Tetrahydrofuran	17.9		µg/l		20.0		89.5	70-130	2.83	25
Ethyl ether	19.5		µg/l		20.0		97.5	70-136	4.51	50
Tert-amyl methyl ether	21.2		µg/l		20.0		106	70-130	1.87	25
Ethyl tert-butyl ether	19.0		µg/l		20.0		95.0	70-130	2.08	25
Di-isopropyl ether	17.1		µg/l		20.0		85.5	70-130	1.74	25
Tert-Butanol / butyl alcohol	218		µg/l		200		109	70-130	0.913	25
1,4-Dioxane	211		µg/l		200		106	36.5-156	8.35	25
Surrogate: 4-Bromofluorobenzene	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*43.2*		µg/l		*50.0*		*86.4*	*70-130*		
Surrogate: Dibromofluoromethane	*42.5*		µg/l		*50.0*		*85.0*	*70-130*		

Microextractable Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030340 - SW846 3535										
Blank (6030340-BLK1)										
Prepared: 07-Mar-06 Analyzed: 08-Mar-06										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100						
LCS (6030340-BS1)										
Prepared: 07-Mar-06 Analyzed: 08-Mar-06										
1,2-Dibromoethane (EDB)	0.188		µg/l	0.0100	0.200		94.0	50-150		
Duplicate (6030340-DUP1) **Source: SA41559-01**										
Prepared: 07-Mar-06 Analyzed: 08-Mar-06										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100		BRL				30

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030253 - SW846 3510C										
Blank (6030253-BLK1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Non-polar material (SGT-HEM)	BRL		mg/l	1.0						
LCS (6030253-BS1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Non-polar material (SGT-HEM)	24.1		mg/l		25.0		96.4	0-200		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030342 - SW846 3510C										
Blank (6030342-BLK1)										
Prepared & Analyzed: 07-Mar-06										
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)	*0.150*		µg/l		*0.200*		*75.0*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.120*		µg/l		*0.200*		*60.0*	*30-150*		
LCS (6030342-BS1)										
Prepared & Analyzed: 07-Mar-06										
PCB 1016	1.76		µg/l	0.200	2.50		70.4	50-114		
PCB 1260	1.79		µg/l	0.200	2.50		71.6	40-127		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.130*		µg/l		*0.200*		*65.0*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.110*		µg/l		*0.200*		*55.0*	*30-150*		
LCS Dup (6030342-BSD1)										
Prepared & Analyzed: 07-Mar-06										
PCB 1016	1.63		µg/l	0.200	2.50		65.2	50-114	7.67	20
PCB 1260	1.73		µg/l	0.200	2.50		69.2	40-127	3.41	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.130*		µg/l		*0.200*		*65.0*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.190*		µg/l		*0.200*		*95.0*	*30-150*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030250 - SW846 3510C										
Blank (6030250-BLK1)										
Prepared & Analyzed: 06-Mar-06										
Acenaphthene	BRL		µg/l	1.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	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	1.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	1.00						
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	2.00						
1,3-Dichlorobenzene	BRL		µg/l	2.00						
1,4-Dichlorobenzene	BRL		µg/l	2.00						
3,3´-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	1.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	1.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	1.00						
2,4-Dinitrophenol	BRL		µg/l	1.00						
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	1.00						
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						
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	1.00						
3,4-Methylphenol	BRL		µg/l	1.00						
Naphthalene	BRL		µg/l	2.00						
2-Nitroaniline	BRL		µg/l	5.00						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030250 - SW846 3510C										
Blank (6030250-BLK1)										
Prepared & Analyzed: 06-Mar-06										
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	5.00						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	1.00						
4-Nitrophenol	BRL		µg/l	1.00						
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	1.00						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	1.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	1.00						
2,4,6-Trichlorophenol	BRL		µg/l	1.00						
Surrogate: 2-Fluorobiphenyl	*55.3*		µg/l		*100*		*55.3*	*30-130*		
Surrogate: 2-Fluorophenol	*41.1*		µg/l		*100*		*41.1*	*15-110*		
Surrogate: Nitrobenzene-d5	*58.0*		µg/l		*100*		*58.0*	*30-130*		
Surrogate: Phenol-d5	*23.9*		µg/l		*100*		*23.9*	*15-110*		
Surrogate: Terphenyl-dl4	*66.5*		µg/l		*100*		*66.5*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*57.4*		µg/l		*100*		*57.4*	*15-110*		
LCS (6030250-BS1)										
Prepared & Analyzed: 06-Mar-06										
Acenaphthene	70.3		µg/l	1.00	100		70.3	40-140		
Acenaphthylene	73.4		µg/l	5.00	100		73.4	40-140		
Aniline	76.2		µg/l	5.00	100		76.2	40-140		
Anthracene	82.0		µg/l	5.00	100		82.0	40-140		
Azobenzene/Diphenyldiazine	72.7		µg/l	5.00	100		72.7	40-140		
Benzidine	50.8		µg/l	5.00	100		50.8	40-140		
Benzo (a) anthracene	77.0		µg/l	5.00	100		77.0	40-140		
Benzo (a) pyrene	77.5		µg/l	5.00	100		77.5	40-140		
Benzo (b) fluoranthene	74.0		µg/l	5.00	100		74.0	40-140		
Benzo (g,h,i) perylene	77.1		µg/l	5.00	100		77.1	40-140		
Benzo (k) fluoranthene	76.5		µg/l	5.00	100		76.5	40-140		
Benzoic acid	6.37	QC-2	µg/l	5.00	100		6.37	30-130		
Benzyl alcohol	51.9		µg/l	5.00	100		51.9	40-140		
Bis(2-chloroethoxy)methane	71.0		µg/l	5.00	100		71.0	40-140		
Bis(2-chloroethyl)ether	70.2		µg/l	5.00	100		70.2	40-140		
Bis(2-chloroisopropyl)ether	80.6		µg/l	5.00	100		80.6	40-140		
Bis(2-ethylhexyl)phthalate	78.8		µg/l	5.00	100		78.8	40-140		
4-Bromophenyl phenyl ether	71.7		µg/l	5.00	100		71.7	40-140		
Butyl benzyl phthalate	77.0		µg/l	5.00	100		77.0	40-140		
Carbazole	117		µg/l	5.00	100		117	0-200		
4-Chloro-3-methylphenol	78.9		µg/l	1.00	100		78.9	30-130		
4-Chloroaniline	67.1		µg/l	5.00	100		67.1	40-140		
2-Chloronaphthalene	65.6		µg/l	5.00	100		65.6	40-140		
2-Chlorophenol	70.2		µg/l	1.00	100		70.2	30-130		
4-Chlorophenyl phenyl ether	72.4		µg/l	5.00	100		72.4	40-140		
Chrysene	76.7		µg/l	5.00	100		76.7	40-140		
Dibenzo (a,h) anthracene	79.5		µg/l	5.00	100		79.5	40-140		
Dibenzofuran	72.3		µg/l	5.00	100		72.3	40-140		
1,2-Dichlorobenzene	50.4		µg/l	2.00	100		50.4	40-140		
1,3-Dichlorobenzene	47.8		µg/l	2.00	100		47.8	40-140		
1,4-Dichlorobenzene	48.6		µg/l	2.00	100		48.6	40-140		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030250 - SW846 3510C										
LCS (6030250-BS1)										
Prepared & Analyzed: 06-Mar-06										
3,3'-Dichlorobenzidine	91.6		µg/l	5.00	100		91.6	40-140		
2,4-Dichlorophenol	68.0		µg/l	1.00	100		68.0	30-130		
Diethyl phthalate	78.2		µg/l	5.00	100		78.2	40-140		
Dimethyl phthalate	73.6		µg/l	5.00	100		73.6	40-140		
2,4-Dimethylphenol	65.7		µg/l	1.00	100		65.7	30-130		
Di-n-butyl phthalate	77.4		µg/l	5.00	100		77.4	40-140		
4,6-Dinitro-2-methylphenol	42.7		µg/l	1.00	100		42.7	30-130		
2,4-Dinitrophenol	9.55	QC-2	µg/l	1.00	100		9.55	30-130		
2,4-Dinitrotoluene	84.1		µg/l	5.00	100		84.1	40-140		
2,6-Dinitrotoluene	73.4		µg/l	5.00	100		73.4	40-140		
Di-n-octyl phthalate	76.5		µg/l	5.00	100		76.5	40-140		
Fluoranthene	78.7		µg/l	1.00	100		78.7	40-140		
Fluorene	74.5		µg/l	5.00	100		74.5	40-140		
Hexachlorobenzene	70.9		µg/l	5.00	100		70.9	40-140		
Hexachlorobutadiene	45.7		µg/l	5.00	100		45.7	40-140		
Hexachlorocyclopentadiene	46.9		µg/l	5.00	100		46.9	40-140		
Hexachloroethane	45.9		µg/l	5.00	100		45.9	40-140		
Indeno (1,2,3-cd) pyrene	83.6		µg/l	5.00	100		83.6	40-140		
Isophorone	73.6		µg/l	5.00	100		73.6	40-140		
2-Methylnaphthalene	62.3		µg/l	5.00	100		62.3	40-140		
2-Methylphenol	71.0		µg/l	1.00	100		71.0	40-140		
3,4-Methylphenol	74.7		µg/l	1.00	100		74.7	40-140		
Naphthalene	61.6		µg/l	2.00	100		61.6	40-140		
2-Nitroaniline	77.7		µg/l	5.00	100		77.7	40-140		
3-Nitroaniline	88.8		µg/l	5.00	100		88.8	40-140		
4-Nitroaniline	112		µg/l	5.00	100		112	40-140		
Nitrobenzene	69.2		µg/l	5.00	100		69.2	40-140		
2-Nitrophenol	66.0		µg/l	1.00	100		66.0	30-130		
4-Nitrophenol	66.0		µg/l	1.00	100		66.0	30-130		
N-Nitrosodimethylamine	35.8	QC-2	µg/l	5.00	100		35.8	40-140		
N-Nitrosodi-n-propylamine	76.9		µg/l	5.00	100		76.9	40-140		
N-Nitrosodiphenylamine	87.0		µg/l	5.00	100		87.0	40-140		
Pentachlorophenol	64.3		µg/l	1.00	100		64.3	30-130		
Phenanthrene	73.8		µg/l	5.00	100		73.8	40-140		
Phenol	43.7		µg/l	1.00	100		43.7	30-130		
Pyrene	74.8		µg/l	5.00	100		74.8	40-140		
Pyridine	53.1		µg/l	5.00	100		53.1	40-140		
1,2,4-Trichlorobenzene	50.9		µg/l	5.00	100		50.9	40-140		
2,4,5-Trichlorophenol	81.2		µg/l	1.00	100		81.2	30-130		
2,4,6-Trichlorophenol	64.2		µg/l	1.00	100		64.2	30-130		
Surrogate: 2-Fluorobiphenyl	*41.3*		µg/l		*100*		*41.3*	*30-130*		
Surrogate: 2-Fluorophenol	*26.0*		µg/l		*100*		*26.0*	*15-110*		
Surrogate: Nitrobenzene-d5	*41.3*		µg/l		*100*		*41.3*	*30-130*		
Surrogate: Phenol-d5	*23.1*		µg/l		*100*		*23.1*	*15-110*		
Surrogate: Terphenyl-dl4	*47.5*		µg/l		*100*		*47.5*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*45.9*		µg/l		*100*		*45.9*	*15-110*		
Duplicate (6030250-DUP1)	**Source: SA41538-01**									
Prepared & Analyzed: 06-Mar-06										
Acenaphthene	BRL		µg/l	1.00		0.729			15.8	30
Acenaphthylene	BRL		µg/l	5.00		0.938			6.84	30
Aniline	BRL		µg/l	5.00		BRL				30
Anthracene	BRL		µg/l	5.00		1.00				30
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00		BRL				30
Benzidine	BRL		µg/l	5.00		BRL				30
Benzo (a) anthracene	BRL		µg/l	5.00		5.02			6.58	30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030250 - SW846 3510C										
Duplicate (6030250-DUP1)	**Source: SA41538-01**									
Prepared & Analyzed: 06-Mar-06										
Benzo (a) pyrene	BRL		µg/l	5.00		4.25			6.06	30
Benzo (b) fluoranthene	BRL		µg/l	5.00		4.58			6.54	30
Benzo (g,h,i) perylene	BRL		µg/l	5.00		2.17			0.460	30
Benzo (k) fluoranthene	BRL		µg/l	5.00		2.67			8.59	30
Benzoic acid	BRL		µg/l	5.00		BRL				30
Benzyl alcohol	BRL		µg/l	5.00		BRL				30
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00		BRL				30
Bis(2-chloroethyl)ether	BRL		µg/l	5.00		BRL				30
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00		BRL				30
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00		BRL				30
4-Bromophenyl phenyl ether	BRL		µg/l	5.00		BRL				30
Butyl benzyl phthalate	BRL		µg/l	5.00		BRL				30
Carbazole	BRL		µg/l	5.00		4.38				30
4-Chloro-3-methylphenol	BRL		µg/l	1.00		BRL				30
4-Chloroaniline	BRL		µg/l	5.00		BRL				30
2-Chloronaphthalene	BRL		µg/l	5.00		BRL				30
2-Chlorophenol	BRL		µg/l	1.00		BRL				30
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00		BRL				30
Chrysene	BRL		µg/l	5.00		5.10			4.00	30
Dibenzo (a,h) anthracene	BRL		µg/l	5.00		0.521			7.57	30
Dibenzofuran	BRL		µg/l	5.00		BRL				30
1,2-Dichlorobenzene	BRL		µg/l	2.00		BRL				30
1,3-Dichlorobenzene	BRL		µg/l	2.00		BRL				30
1,4-Dichlorobenzene	BRL		µg/l	2.00		BRL				30
3,3'-Dichlorobenzidine	BRL		µg/l	5.00		BRL				30
2,4-Dichlorophenol	BRL		µg/l	1.00		BRL				30
Diethyl phthalate	BRL		µg/l	5.00		BRL				30
Dimethyl phthalate	BRL		µg/l	5.00		BRL				30
2,4-Dimethylphenol	BRL		µg/l	1.00		BRL				30
Di-n-butyl phthalate	BRL		µg/l	5.00		BRL				30
4,6-Dinitro-2-methylphenol	BRL		µg/l	1.00		BRL				30
2,4-Dinitrophenol	BRL		µg/l	1.00		BRL				30
2,4-Dinitrotoluene	BRL		µg/l	5.00		BRL				30
2,6-Dinitrotoluene	BRL		µg/l	5.00		BRL				30
Di-n-octyl phthalate	BRL		µg/l	5.00		BRL				30
Fluoranthene	10.1		µg/l	1.00		11.1			9.43	30
Fluorene	BRL		µg/l	5.00		0.646			13.8	30
Hexachlorobenzene	BRL		µg/l	5.00		BRL				30
Hexachlorobutadiene	BRL		µg/l	5.00		BRL				30
Hexachlorocyclopentadiene	BRL		µg/l	5.00		BRL				30
Hexachloroethane	BRL		µg/l	5.00		BRL				30
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00		2.46			7.16	30
Isophorone	BRL		µg/l	5.00		BRL				30
2-Methylnaphthalene	BRL	QM-04	µg/l	5.00		1.60			39.2	30
2-Methylphenol	BRL		µg/l	1.00		BRL				30
3,4-Methylphenol	BRL		µg/l	1.00		BRL				50
Naphthalene	5.37		µg/l	2.00		BRL				30
2-Nitroaniline	BRL		µg/l	5.00		BRL				30
3-Nitroaniline	BRL		µg/l	5.00		BRL				30
4-Nitroaniline	BRL		µg/l	5.00		BRL				30
Nitrobenzene	BRL		µg/l	5.00		0.812				30
2-Nitrophenol	BRL		µg/l	1.00		BRL				30
4-Nitrophenol	BRL		µg/l	1.00		BRL				30
N-Nitrosodimethylamine	BRL		µg/l	5.00		BRL				30
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00		BRL				30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030250 - SW846 3510C										
Duplicate (6030250-DUP1)	**Source: SA41538-01**									
Prepared & Analyzed: 06-Mar-06										
N-Nitrosodiphenylamine	BRL		µg/l	5.00		BRL				30
Pentachlorophenol	BRL		µg/l	1.00		BRL				30
Phenanthrene	BRL		µg/l	5.00		2.96			12.6	30
Phenol	BRL		µg/l	1.00		BRL				30
Pyrene	8.27		µg/l	5.00		9.00			8.45	30
Pyridine	BRL		µg/l	5.00		BRL				30
1,2,4-Trichlorobenzene	BRL		µg/l	5.00		BRL				30
2,4,5-Trichlorophenol	BRL		µg/l	1.00		BRL				30
2,4,6-Trichlorophenol	BRL		µg/l	1.00		BRL				30
Surrogate: 2-Fluorobiphenyl	*74.6*		µg/l		*112*		*66.6*	*30-130*		
Surrogate: 2-Fluorophenol	*95.5*		µg/l		*112*		*85.3*	*15-110*		
Surrogate: Nitrobenzene-d5	*74.6*		µg/l		*112*		*66.6*	*30-130*		
Surrogate: Phenol-d5	*73.3*		µg/l		*112*		*65.4*	*15-110*		
Surrogate: Terphenyl-dl4	*75.9*		µg/l		*112*		*67.8*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*69.1*		µg/l		*112*		*61.7*	*15-110*		

Total 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 6030213 - EPA 200 Series										
Blank (6030213-BLK1)										
Prepared & Analyzed: 06-Mar-06										
Lead	BRL		mg/l	0.0030						
Nickel	BRL		mg/l	0.0025						
Iron	BRL		mg/l	0.0750						
Antimony	BRL		mg/l	0.0060						
Selenium	BRL		mg/l	0.0075						
Zinc	0.0025	QB-01	mg/l	0.0025						
Cadmium	BRL		mg/l	0.0012						
Arsenic	BRL		mg/l	0.0040						
Copper	BRL		mg/l	0.0025						
Silver	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0025						
LCS (6030213-BS1)										
Prepared & Analyzed: 06-Mar-06										
Nickel	0.248		mg/l	0.0025	0.250		99.2	85-115		
Zinc	0.250		mg/l	0.0025	0.250		100	85-115		
Antimony	0.246		mg/l	0.0060	0.250		98.4	85-115		
Lead	0.246		mg/l	0.0030	0.250		98.4	85-115		
Iron	0.257		mg/l	0.0750	0.250		103	85-115		
Selenium	0.249		mg/l	0.0075	0.250		99.6	85-115		
Cadmium	0.241		mg/l	0.0012	0.250		96.4	85-115		
Chromium	0.243		mg/l	0.0025	0.250		97.2	85-115		
Arsenic	0.241		mg/l	0.0040	0.250		96.4	85-115		
Silver	0.132		mg/l	0.0050	0.125		106	85-115		
Copper	0.238		mg/l	0.0025	0.250		95.2	85-115		
Duplicate (6030213-DUP1)	**Source: SA41539-02**									
Prepared & Analyzed: 06-Mar-06										
Selenium	BRL		mg/l	0.0075		BRL				20
Antimony	BRL		mg/l	0.0060		BRL				20
Nickel	BRL		mg/l	0.0025		0.0018			0.00	20
Lead	BRL		mg/l	0.0030		BRL				20
Iron	BRL		mg/l	0.0750		0.0513			14.5	20
Zinc	0.0456		mg/l	0.0025		0.0443			2.89	20
Chromium	BRL		mg/l	0.0025		BRL				20
Cadmium	BRL		mg/l	0.0012		BRL				20
Copper	0.0273		mg/l	0.0025		0.0257			6.04	20
Arsenic	BRL		mg/l	0.0040		BRL				20
Silver	BRL		mg/l	0.0050		BRL				20
Matrix Spike (6030213-MS1)	**Source: SA41559-01**									
Prepared & Analyzed: 06-Mar-06										
Nickel	0.296		mg/l	0.0025	0.250	0.0900	82.4	70-130		
Selenium	0.159	QM-07	mg/l	0.0075	0.250	BRL	63.6	70-130		
Lead	0.424		mg/l	0.0030	0.250	0.217	82.8	70-130		
Zinc	1.23		mg/l	0.0025	0.250	0.951	112	70-130		
Iron	90.1	QM-02	mg/l	0.375	0.250	86.3	NR	70-130		
Antimony	0.174	QM-07	mg/l	0.0060	0.250	0.0024	68.6	70-130		
Copper	0.632		mg/l	0.0025	0.250	0.402	92.0	70-130		
Chromium	0.330		mg/l	0.0025	0.250	0.113	86.8	70-130		
Cadmium	0.201		mg/l	0.0012	0.250	0.0047	78.5	70-130		
Arsenic	0.816		mg/l	0.0040	0.250	0.572	97.6	70-130		
Silver	0.127		mg/l	0.0050	0.125	0.0055	97.2	70-130		
Matrix Spike (6030213-MS2)	**Source: SA41560-15**									
Prepared & Analyzed: 06-Mar-06										

Total 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 6030213 - EPA 200 Series										
Matrix Spike (6030213-MS2)	**Source: SA41560-15**									
Prepared & Analyzed: 06-Mar-06										
Nickel	0.256		mg/l	0.0025	0.250	0.0354	88.2	70-130		
Zinc	0.350		mg/l	0.0025	0.250	0.134	86.4	70-130		
Selenium	0.228		mg/l	0.0075	0.250	BRL	91.2	70-130		
Antimony	0.224		mg/l	0.0060	0.250	0.0023	88.7	70-130		
Lead	0.225		mg/l	0.0030	0.250	0.0054	87.8	70-130		
Iron	1.68	QM-4X	mg/l	0.0750	0.250	1.99	NR	70-130		
Copper	0.237		mg/l	0.0025	0.250	0.0062	92.3	70-130		
Chromium	0.226		mg/l	0.0025	0.250	0.0022	89.5	70-130		
Cadmium	0.217		mg/l	0.0012	0.250	0.0002	86.7	70-130		
Silver	0.125		mg/l	0.0050	0.125	BRL	100	70-130		
Arsenic	0.226		mg/l	0.0040	0.250	BRL	90.4	70-130		
Post Spike (6030213-PS1)	**Source: SA41560-15**									
Prepared & Analyzed: 06-Mar-06										
Nickel	0.174		mg/l	0.0025	0.125	0.0354	111	85-115		
Zinc	0.264		mg/l	0.0025	0.125	0.134	104	85-115		
Antimony	0.140		mg/l	0.0060	0.125	0.0023	110	85-115		
Lead	0.146		mg/l	0.0030	0.125	0.0054	112	85-115		
Copper	0.149		mg/l	0.0025	0.125	0.0062	114	85-115		
Chromium	0.137		mg/l	0.0025	0.125	0.0022	108	85-115		
Cadmium	0.134		mg/l	0.0012	0.125	0.0002	107	85-115		
Arsenic	0.140		mg/l	0.0040	0.125	BRL	112	85-115		
Silver	0.0710		mg/l	0.0050	0.0625	BRL	114	85-115		
Batch 6030233 - EPA200/SW7000 Series										
Blank (6030233-BLK1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Mercury	BRL		mg/l	0.00020						
LCS (6030233-BS1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Mercury	0.00215		mg/l	0.00020	0.00250		86.0	80-120		
Duplicate (6030233-DUP1)	**Source: SA41559-01**									
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Mercury	BRL	QR-01	mg/l	0.00020		0.00024			23.3	20
Matrix Spike (6030233-MS1)	**Source: SA41559-01**									
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Mercury	0.00267		mg/l	0.00020	0.00250	0.00024	97.2	75-125		
Post Spike (6030233-PS1)	**Source: SA41559-01**									
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Mercury	0.00260		mg/l	0.00020	0.00250	0.00024	94.4	75-125		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030222 - General Preparation										
Blank (6030222-BLK1)										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	BRL		mg/l	0.005						
Blank (6030222-BLK2)										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	BRL		mg/l	0.005						
LCS (6030222-BS1)										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	0.054		mg/l	0.005	0.0500		108	90-110		
LCS (6030222-BS2)										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	0.053		mg/l	0.005	0.0500		106	90-110		
Duplicate (6030222-DUP1) **Source: SA41514-03**										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	BRL		mg/l	0.010		BRL				20
Matrix Spike (6030222-MS1) **Source: SA41514-03**										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	0.092		mg/l	0.010	0.100	BRL	92.0	80-120		
Reference (6030222-SRM1)										
Prepared & Analyzed: 03-Mar-06										
Hexavalent Chromium	0.027		mg/l	0.005	0.0250		108	85-115		
Batch 6030304 - General Preparation										
Blank (6030304-BLK1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Total Suspended Solids	BRL		mg/l	5.00						
Duplicate (6030304-DUP1) **Source: SA41457-04**										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Total Suspended Solids	37.0		mg/l	5.00		38.0			2.67	20
Duplicate (6030304-DUP2) **Source: SA41515-04**										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Total Suspended Solids	97.0		mg/l	5.00		93.0			4.21	20
Reference (6030304-SRM1)										
Prepared: 06-Mar-06 Analyzed: 07-Mar-06										
Total Suspended Solids	90.0		mg/l	10.0	90.0		100	90-110		
Batch 6030305 - General Preparation										
Blank (6030305-BLK1)										
Prepared & Analyzed: 03-Mar-06										
Total Residual Chlorine	BRL		mg/l	0.020						
LCS (6030305-BS1)										
Prepared & Analyzed: 03-Mar-06										
Total Residual Chlorine	0.048		mg/l	0.020	0.0500		96.0	90-110		
Duplicate (6030305-DUP1) **Source: SA41559-01**										
Prepared & Analyzed: 03-Mar-06										
Total Residual Chlorine	BRL		mg/l	20.0		BRL				20
Matrix Spike (6030305-MS1) **Source: SA41559-01**										
Prepared & Analyzed: 03-Mar-06										
Total Residual Chlorine	43.0		mg/l	20.0	50.0	BRL	86.0	80-120		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 6030305 - General Preparation										
Reference (6030305-SRM1)										
Prepared & Analyzed: 03-Mar-06										
Total Residual Chlorine	0.112		mg/l	0.020	0.111		101	85-115		
Batch 6030385 - General Preparation										
Blank (6030385-BLK1)										
Prepared & Analyzed: 07-Mar-06										
Cyanide (total)	BRL		mg/l	0.0100						
LCS (6030385-BS1)										
Prepared & Analyzed: 07-Mar-06										
Cyanide (total)	0.296		mg/l	0.0100	0.300		98.7	90-110		
Matrix Spike (6030385-MS1) **Source: SA41559-01**										
Prepared & Analyzed: 07-Mar-06										
Cyanide (total)	0.290		mg/l	0.0100	0.300	BRL	96.7	75-125		
Matrix Spike Dup (6030385-MSD1) **Source: SA41559-01**										
Prepared & Analyzed: 07-Mar-06										
Cyanide (total)	0.289		mg/l	0.0100	0.300	BRL	96.3	75-125	0.345	20
Reference (6030385-SRM1)										
Prepared & Analyzed: 07-Mar-06										
Cyanide (total)	0.360		mg/l	0.0100	0.386		93.3	75.1-125		

Notes and Definitions

QB-01 The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

QC-2 Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

QM-02 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.

QM-04 Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-4X The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

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

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

Validated by:
Hanibal C. Tayeh, Ph.D.
June O'Connor

SA41559

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Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3/8/06
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: CEA 177 Hartwell St W. Boylston	Invoice To: CK Smith 99 Crescent St Worc MA inv #6002792 (JP)	Project No.: 2921-96
		Site Name: CK Smith Leicester
		Location: 154 Main Street State: MA
Project Mgr.: Scott Masse	P.O. No.: RQN:	Sampler(s): JS

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=____ 10=____

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		NAPES	Parameters	Sur Attached	Short				
A41559-01	OW-1	3/3/06	9:30	G	GW	2,3, 4,5,1	4	3	3 (JS)	3									

Containers / **Analyses**

QA Reporting Notes:
(check if needed)

State specific reporting standards
If applicable, please list below.

☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

☐ Fax results when available to (____)
☒ E-mail to Smasse@cea-inc.com
EDD Format

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 4

Relinquished by:	Received by:	Date:	Time:
J. Snow	[signature]	3/3/06	1100
[signature]	[signature]	3/3/06	16:45

N. Nefreg