

ATTACHMENT G

EPA LABORATORY DATA FOR ODEQ



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Red River Fish Kill

Sample Collection Date(s)-- 07/09/11 - 09/14/11

Contact----- OKDEQ

Report Date----- 11/16/11

Project #----- 11REG260

Work Order(s)----- 1109024
1109034

Analyses included in this report:

ABN 8270 Routine List

Metals ICP-MS 6020

Report Narrative

Semi-volatiles:

Liquids: Samples were extracted past recommended holding time and should be considered minimum values.

Gels: The gel material formed during the extraction of liquid samples in the ODEQ Laboratory and was sent here for additional analyses to try to determine the makeup. Because the gel had already been extracted, it was deemed inappropriate to further extract the gel material using solid preparation techniques. Various solvents were used to dissolve the gel and isopropanol was found to dissolve the majority of the material. The gel samples were subsequently diluted in isopropanol and analyzed directly by GC/MS. There were no routine 8270 targets or unknown peaks found in the analysis of these samples. Because the analysis was not routine or validated using isopropanol, the sample results are only reported here in the narrative.

Metals ICP-MS:

Batch B1I2105: MS1/MSD1: The aluminum sample concentration exceeds the spike added concentration by a factor of four or more and cannot be reliably calculated.

Report Narrative (cont'd)

Batch B1I2104: MSD1: The manganese spike recovery is high; the result is qualified and may be biased high. The RPD is elevated.

Batch: B1I2704: MS2: The spike recovery for aluminum is elevated; the result is qualified and may be biased high.

Batch: B1I2703: Solid SRM: Manganese recovery is high; the results are qualified and may be biased high.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Red River Fish Kill

Project Number: 11REG260

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
506638	1109024-01	Liquid	7/13/11 14:30	09/16/11 08:40
506639	1109024-02	Liquid	7/13/11 15:06	09/16/11 08:40
506640	1109024-03	Liquid	7/13/11 15:45	09/16/11 08:40
508670	1109024-04	Liquid	8/26/11 13:20	09/16/11 08:40
508671	1109024-05	Liquid	8/26/11 13:49	09/16/11 08:40
508672	1109024-06	Liquid	8/26/11 14:32	09/16/11 08:40
508673	1109024-07	Liquid	8/26/11 16:10	09/16/11 08:40
508674	1109024-08	Liquid	8/26/11 18:31	09/16/11 08:40
gel from 506638 extraction	1109024-09	Non-Aqueous Liquid	7/13/11 0:00	09/16/11 08:40
gel from 508674 extraction	1109024-10	Non-Aqueous Liquid	8/30/11 0:00	09/16/11 08:40
Site #13 (508670)	1109034-01	Liquid	8/26/11 13:20	09/22/11 07:30
Site #4 (506345/506350)	1109034-02	Liquid	7/9/11 13:37	09/22/11 07:30
Site #2 (506343/506348)	1109034-03	Liquid	7/9/11 11:45	09/22/11 07:30
Site #1 (506347)	1109034-04	Liquid	7/9/11 11:12	09/22/11 07:30
Site #14 (508671)	1109034-05	Liquid	8/26/11 13:49	09/22/11 07:30
Site #13 (gel extract) (508670)	1109034-06	Non-Aqueous Liquid	8/30/11 0:00	09/22/11 07:30
Site #14 (gel extract) (508671)	1109034-07	Non-Aqueous Liquid	8/30/11 0:00	09/22/11 07:30
Site #15 (gel extract) (508672)	1109034-08	Non-Aqueous Liquid	8/30/11 0:00	09/22/11 07:30
Site #16 (gel extract - 508673)	1109034-09	Non-Aqueous Liquid	8/30/11 0:00	09/22/11 07:30
Site #12 (508318)	1109034-10	Liquid	8/18/11 20:15	09/22/11 07:30
Site #11 (508317)	1109034-11	Liquid	8/18/11 19:11	09/22/11 07:30
Site #15 (508672)	1109034-12	Liquid	8/26/11 14:32	09/22/11 07:30
Site #16 (508673)	1109034-13	Liquid	8/26/11 16:10	09/22/11 07:30
Site #18 (509500)	1109034-14	Liquid	9/14/11 14:28	09/22/11 07:30
Site #19 (509501)	1109034-15	Liquid	9/14/11 16:00	09/22/11 07:30
Site #20 (509502)	1109034-16	Liquid	9/14/11 17:01	09/22/11 07:30
Site #3 (506344A/506349B)	1109034-17	Liquid	8/26/11 16:10	09/22/11 07:30



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-01

Station ID: 506638

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	98.5		65.7	39-109	09/27/11	10/04/11
Surr: Phenol-d5	106		70.6	41-107	"	"
Surr: 2-Chlorophenol-d4	101		67.5	45-104	"	"
Surr: 1,2-Dichlorobenzene-d4	59.9		59.9	34-100	"	"
Surr: Nitrobenzene-d5	80.8		80.8	41-128	"	"
Surr: 2-Fluorobiphenyl	73.7		73.7	46-108	"	"
Surr: 2,4,6-Tribromophenol	116		77.1	51-143	"	"
Surr: Terphenyl-d14	93.1		93.1	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-01

Station ID: 506638

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-01

Station ID: 506638

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-01

Station ID: 506638

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	10		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-01

Station ID: 506638

Batch: B1I2105

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,320		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	7.7		5.0	"	"	"
Barium (7440-39-3)	196		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	5.6		5.0	"	"	"
Manganese (7439-96-5)	482		5.0	"	"	"
Molybdenum (7439-98-7)	5.8		5.0	"	"	"
Nickel (7440-02-2)	11.2		5.0	"	"	"
Selenium (7782-49-2)	8.0		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	5.9		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-02

Station ID: 506639

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	107		71.0	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	115		76.6	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	109		72.4	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	62.3		62.3	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	84.7		84.7	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	75.1		75.1	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	123		81.9	51-143	"	"
<i>Surr: Terphenyl-d14</i>	98.4		98.4	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-02

Station ID: 506639

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-02

Station ID: 506639

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-02

Station ID: 506639

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	7		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-02

Station ID: 506639

Batch: B1I2105

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	555		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	7.0		5.0	"	"	"
Barium (7440-39-3)	188		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	292		5.0	"	"	"
Molybdenum (7439-98-7)	5.6		5.0	"	"	"
Nickel (7440-02-2)	10.7		5.0	"	"	"
Selenium (7782-49-2)	8.0		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	5.7		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-03

Station ID: 506640

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	98.8		65.8	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	104		69.5	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	101		67.3	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	58.3		58.3	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	77.5		77.5	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	70.9		70.9	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	116		77.0	51-143	"	"
<i>Surr: Terphenyl-d14</i>	93.5		93.5	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-03

Station ID: 506640

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-03

Station ID: 506640

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-03

Station ID: 506640

Batch: B1I2701

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	5		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-03

Station ID: 506640

Batch: B1I2105

Date Collected: 07/13/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	860		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	7.5		5.0	"	"	"
Barium (7440-39-3)	183		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	5.0		5.0	"	"	"
Manganese (7439-96-5)	346		5.0	"	"	"
Molybdenum (7439-98-7)	5.6		5.0	"	"	"
Nickel (7440-02-2)	10.8		5.0	"	"	"
Selenium (7782-49-2)	9.1		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	5.7		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-04

Station ID: 508670

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		68.0	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	114		75.8	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	106		70.9	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	57.0		57.0	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	83.7		83.7	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	79.0		79.0	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	131		87.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	94.1		94.1	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-04

Station ID: 508670

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-04

Station ID: 508670

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-04

Station ID: 508670

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
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No TICs present in this sample.

BJS

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-04

Station ID: 508670

Batch: B1I2105

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	536		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	6.8		5.0	"	"	"
Barium (7440-39-3)	144		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	152		5.0	"	"	"
Molybdenum (7439-98-7)	5.8		5.0	"	"	"
Nickel (7440-02-2)	10.8		5.0	"	"	"
Selenium (7782-49-2)	7.9		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	6.2		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-05

Station ID: 508671

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		68.2	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	111		73.7	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	105		70.3	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	58.5		58.5	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	82.2		82.2	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	75.5		75.5	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	139		92.5	51-143	"	"
<i>Surr: Terphenyl-d14</i>	95.2		95.2	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-05

Station ID: 508671

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-05

Station ID: 508671

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-05

Station ID: 508671

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
C5H8O isomer (NA)	42		2.66	1	09/27/11	10/04/11
Unknown (NA)	36		2.85	"	"	"
Hexadecanoic acid (57-10-3)	5		9.30	"	"	"

Total # of TICs: 3

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-05

Station ID: 508671

Batch: B1I2105

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	662		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	10.3		5.0	"	"	"
Barium (7440-39-3)	349		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	722		5.0	"	"	"
Molybdenum (7439-98-7)	5.2		5.0	"	"	"
Nickel (7440-02-2)	11.8		5.0	"	"	"
Selenium (7782-49-2)	8.4		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-06

Station ID: 508672

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	111		74.3	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	121		80.9	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	114		75.7	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	64.1		64.1	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	87.5		87.5	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	79.9		79.9	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	148		98.9	51-143	"	"
<i>Surr: Terphenyl-d14</i>	92.9		92.9	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-06

Station ID: 508672

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-06

Station ID: 508672

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-06

Station ID: 508672

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (01) (NA)	15		2.85	1	09/27/11	10/04/11
Unknown (02) (NA)	6		3.92	"	"	"
Hexadecenoic acid, Z-11- (2416-20-8)	4		9.25	"	"	"
Hexadecanoic acid (57-10-3)	8		9.30	"	"	"

Total # of TICs: 4

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-06

Station ID: 508672

Batch: B1I2105

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	256		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	5.1		5.0	"	"	"
Barium (7440-39-3)	126		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	31.2		5.0	"	"	"
Molybdenum (7439-98-7)	6.2		5.0	"	"	"
Nickel (7440-02-2)	10.3		5.0	"	"	"
Selenium (7782-49-2)	7.9		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	6.8		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-07

Station ID: 508673

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	107		71.2	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	114		75.7	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	111		74.3	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	70.8		70.8	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	93.1		93.1	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	83.6		83.6	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	123		81.9	51-143	"	"
<i>Surr: Terphenyl-d14</i>	95.5		95.5	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-07

Station ID: 508673

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-07

Station ID: 508673

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Lab ID: 1109024-07

Station ID: 508673

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (01) (NA)	5		3.46	1	09/27/11	10/04/11
Unknown (02) (NA)	5		3.93	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-07

Station ID: 508673

Batch: B1I2105

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	631		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	U		5.0	"	"	"
Barium (7440-39-3)	284		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	378		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	U		5.0	"	"	"
Selenium (7782-49-2)	U		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-08

Station ID: 508674

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	97.5		65.0	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	105		70.1	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	102		68.1	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	64.5		64.5	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	84.8		84.8	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	77.7		77.7	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	123		82.1	51-143	"	"
<i>Surr: Terphenyl-d14</i>	94.0		94.0	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-08

Station ID: 508674

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-08

Station ID: 508674

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109024-08

Station ID: 508674

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (01) (NA)	5		3.46	1	09/27/11	10/04/11
Unknown (02) (NA)	9		3.93	"	"	"
Unknown cyclic compound (NA)	5		7.63	"	"	"

Total # of TICs: 3

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-08

Station ID: 508674

Batch: B1I2105

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,090		50.0	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	15.7		5.0	"	"	"
Barium (7440-39-3)	555		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	5.7		5.0	"	"	"
Manganese (7439-96-5)	777		5.0	"	"	"
Molybdenum (7439-98-7)	12.0		5.0	"	"	"
Nickel (7440-02-2)	22.6		5.0	"	"	"
Selenium (7782-49-2)	U		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	7.2		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-09

Station ID: gel from 506638 extraction

Batch: B1I2104

Date Collected: 07/13/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.502 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,980	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		498	"	"	"
Arsenic (7440-38-2)	U		498	"	"	"
Barium (7440-39-3)	U		498	"	"	"
Beryllium (7440-41-7)	U		498	"	"	"
Cadmium (7440-43-9)	U		498	"	"	"
Chromium (7440-47-3)	U		498	"	"	"
Cobalt (7440-48-4)	U		498	"	"	"
Copper (7440-50-8)	U		498	"	"	"
Lead (7439-92-1)	U		498	"	"	"
Manganese (7439-96-5)	2,560	K	498	"	"	"
Molybdenum (7439-98-7)	U		498	"	"	"
Nickel (7440-02-2)	U		498	"	"	"
Selenium (7782-49-2)	U		498	"	"	"
Silver (7440-22-4)	U		498	"	"	"
Thallium (7440-28-0)	U		498	"	"	"
Vanadium (7440-62-2)	U		498	"	"	"
Zinc (7440-66-6)	U		996	"	"	"
Uranium (7440-61-1)	U		498	"	"	"
Thorium (7440-29-1)	U		498	"	"	"

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109024-10

Station ID: gel from 508674 extraction

Batch: B1I2104

Date Collected: 08/30/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.509 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,910	10	09/20/11	09/29/11
Antimony (7440-36-0)	U		491	"	"	"
Arsenic (7440-38-2)	U		491	"	"	"
Barium (7440-39-3)	2,010		491	"	"	"
Beryllium (7440-41-7)	U		491	"	"	"
Cadmium (7440-43-9)	U		491	"	"	"
Chromium (7440-47-3)	U		491	"	"	"
Cobalt (7440-48-4)	U		491	"	"	"
Copper (7440-50-8)	U		491	"	"	"
Lead (7439-92-1)	U		491	"	"	"
Manganese (7439-96-5)	22,400		491	"	"	"
Molybdenum (7439-98-7)	U		491	"	"	"
Nickel (7440-02-2)	U		491	"	"	"
Selenium (7782-49-2)	U		491	"	"	"
Silver (7440-22-4)	U		491	"	"	"
Thallium (7440-28-0)	U		491	"	"	"
Vanadium (7440-62-2)	U		491	"	"	"
Zinc (7440-66-6)	U		982	"	"	"
Uranium (7440-61-1)	U		491	"	"	"
Thorium (7440-29-1)	U		491	"	"	"

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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-01

Station ID: Site #13 (508670)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	108		72.3	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	115		76.3	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	109		72.9	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	63.6		63.6	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	85.6		85.6	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	77.1		77.1	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	134		89.4	51-143	"	"
<i>Surr: Terphenyl-d14</i>	93.5		93.5	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-01

Station ID: Site #13 (508670)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-01

Station ID: Site #13 (508670)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-01

Station ID: Site #13 (508670)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	5		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-01

Station ID: Site #13 (508670)

Batch: B1I2704

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	605		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	8.0		5.0	"	"	"
Barium (7440-39-3)	181		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	248		5.0	"	"	"
Molybdenum (7439-98-7)	5.5		5.0	"	"	"
Nickel (7440-02-2)	11.7		5.0	"	"	"
Selenium (7782-49-2)	8.3		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	5.9		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-02

Station ID: Site #4 (506345/506350)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	101		67.6	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	111		73.8	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	102		68.2	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	59.3		59.3	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	80.2		80.2	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	71.3		71.3	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	126		84.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	95.2		95.2	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-02

Station ID: Site #4 (506345/506350)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-02

Station ID: Site #4 (506345/506350)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-02

Station ID: Site #4 (506345/506350)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: **HTS**

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	7		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-02

Station ID: Site #4 (506345/506350)

Batch: B1I2704

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	237		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	6.0		5.0	"	"	"
Barium (7440-39-3)	172		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	260		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	9.5		5.0	"	"	"
Selenium (7782-49-2)	6.5		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-03

Station ID: Site #2 (506343/506348)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	105		69.7	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	108		72.0	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	105		70.2	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	59.9		59.9	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	83.0		83.0	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	74.2		74.2	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	117		78.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	94.5		94.5	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-03

Station ID: Site #2 (506343/506348)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-03

Station ID: Site #2 (506343/506348)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-03

Station ID: Site #2 (506343/506348)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	6		3.93	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-03

Station ID: Site #2 (506343/506348)

Batch: B1I2704

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	139		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	6.4		5.0	"	"	"
Barium (7440-39-3)	167		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	318		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	10.8		5.0	"	"	"
Selenium (7782-49-2)	7.9		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-04

Station ID: Site #1 (506347)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		68.0	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	109		72.6	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	103		69.0	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	57.3		57.3	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	83.4		83.4	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	71.1		71.1	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	118		78.9	51-143	"	"
<i>Surr: Terphenyl-d14</i>	88.6		88.6	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-04

Station ID: Site #1 (506347)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-04

Station ID: Site #1 (506347)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-04

Station ID: Site #1 (506347)

Batch: B1I2701

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (01) (NA)	14		2.85	1	09/27/11	10/04/11
Unknown (02) (NA)	12		3.93	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-04

Station ID: Site #1 (506347)

Batch: B1I2704

Date Collected: 07/09/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,880		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	8.3		5.0	"	"	"
Barium (7440-39-3)	240		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	6.1		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	6.8		5.0	"	"	"
Lead (7439-92-1)	5.4		5.0	"	"	"
Manganese (7439-96-5)	656		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	13.2		5.0	"	"	"
Selenium (7782-49-2)	8.0		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	12.6		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-05

Station ID: Site #14 (508671)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		68.1	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	110		73.3	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.3	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	58.7		58.7	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	82.7		82.7	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	70.3		70.3	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	132		88.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	96.7		96.7	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-05

Station ID: Site #14 (508671)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-05

Station ID: Site #14 (508671)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-05

Station ID: Site #14 (508671)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	4		3.93	1	09/27/11	10/04/11
Hexadecanoic acid (57-10-3)	8		9.30	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-05

Station ID: Site #14 (508671)

Batch: B1I2704

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	169		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	8.2		5.0	"	"	"
Barium (7440-39-3)	156		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	166		5.0	"	"	"
Molybdenum (7439-98-7)	5.4		5.0	"	"	"
Nickel (7440-02-2)	10.5		5.0	"	"	"
Selenium (7782-49-2)	7.0		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	5.3		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-06

Station ID: Site #13 (gel extract) (508670)

Batch: B1I2703

Date Collected: 08/30/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.506 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,940	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		494	"	"	"
Arsenic (7440-38-2)	U		494	"	"	"
Barium (7440-39-3)	U		494	"	"	"
Beryllium (7440-41-7)	U		494	"	"	"
Cadmium (7440-43-9)	U		494	"	"	"
Chromium (7440-47-3)	U		494	"	"	"
Cobalt (7440-48-4)	U		494	"	"	"
Copper (7440-50-8)	U		494	"	"	"
Lead (7439-92-1)	U		494	"	"	"
Manganese (7439-96-5)	4,240		494	"	"	"
Molybdenum (7439-98-7)	U		494	"	"	"
Nickel (7440-02-2)	U		494	"	"	"
Selenium (7782-49-2)	U		494	"	"	"
Silver (7440-22-4)	U		494	"	"	"
Thallium (7440-28-0)	U		494	"	"	"
Vanadium (7440-62-2)	U		494	"	"	"
Zinc (7440-66-6)	U		988	"	"	"
Uranium (7440-61-1)	U		494	"	"	"
Thorium (7440-29-1)	U		494	"	"	"

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-07

Station ID: Site #14 (gel extract) (508671)

Batch: B1I2703

Date Collected: 08/30/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.521 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,800	10	09/26/11	09/30/11
Antimony (7440-36-0)	U		480	"	"	"
Arsenic (7440-38-2)	U		480	"	"	"
Barium (7440-39-3)	U		480	"	"	"
Beryllium (7440-41-7)	U		480	"	"	"
Cadmium (7440-43-9)	U		480	"	"	"
Chromium (7440-47-3)	U		480	"	"	"
Cobalt (7440-48-4)	U		480	"	"	"
Copper (7440-50-8)	U		480	"	"	"
Lead (7439-92-1)	U		480	"	"	"
Manganese (7439-96-5)	3,820		480	"	"	"
Molybdenum (7439-98-7)	U		480	"	"	"
Nickel (7440-02-2)	U		480	"	"	"
Selenium (7782-49-2)	U		480	"	"	"
Silver (7440-22-4)	U		480	"	"	"
Thallium (7440-28-0)	U		480	"	"	"
Vanadium (7440-62-2)	U		480	"	"	"
Zinc (7440-66-6)	U		960	"	"	"
Uranium (7440-61-1)	U		480	"	"	"
Thorium (7440-29-1)	U		480	"	"	"

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-08

Station ID: Site #15 (gel extract) (508672)

Batch: B1I2703

Date Collected: 08/30/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.529 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,730	10	09/26/11	09/30/11
Antimony (7440-36-0)	U		473	"	"	"
Arsenic (7440-38-2)	U		473	"	"	"
Barium (7440-39-3)	U		473	"	"	"
Beryllium (7440-41-7)	U		473	"	"	"
Cadmium (7440-43-9)	U		473	"	"	"
Chromium (7440-47-3)	U		473	"	"	"
Cobalt (7440-48-4)	U		473	"	"	"
Copper (7440-50-8)	U		473	"	"	"
Lead (7439-92-1)	U		473	"	"	"
Manganese (7439-96-5)	3,020		473	"	"	"
Molybdenum (7439-98-7)	U		473	"	"	"
Nickel (7440-02-2)	U		473	"	"	"
Selenium (7782-49-2)	U		473	"	"	"
Silver (7440-22-4)	U		473	"	"	"
Thallium (7440-28-0)	U		473	"	"	"
Vanadium (7440-62-2)	U		473	"	"	"
Zinc (7440-66-6)	U		945	"	"	"
Uranium (7440-61-1)	U		473	"	"	"
Thorium (7440-29-1)	U		473	"	"	"

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-09

Station ID: Site #16 (gel extract - 508673)

Batch: B1I2703

Date Collected: 08/30/11

Sample Type: Non-Aqueous Liquid

Sample Weight: 0.516 g

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		4,840	10	09/26/11	09/30/11
Antimony (7440-36-0)	U		484	"	"	"
Arsenic (7440-38-2)	U		484	"	"	"
Barium (7440-39-3)	U		484	"	"	"
Beryllium (7440-41-7)	U		484	"	"	"
Cadmium (7440-43-9)	U		484	"	"	"
Chromium (7440-47-3)	U		484	"	"	"
Cobalt (7440-48-4)	U		484	"	"	"
Copper (7440-50-8)	U		484	"	"	"
Lead (7439-92-1)	U		484	"	"	"
Manganese (7439-96-5)	1,750	K	484	"	"	"
Molybdenum (7439-98-7)	U		484	"	"	"
Nickel (7440-02-2)	U		484	"	"	"
Selenium (7782-49-2)	U		484	"	"	"
Silver (7440-22-4)	U		484	"	"	"
Thallium (7440-28-0)	U		484	"	"	"
Vanadium (7440-62-2)	U		484	"	"	"
Zinc (7440-66-6)	U		969	"	"	"
Uranium (7440-61-1)	U		484	"	"	"
Thorium (7440-29-1)	U		484	"	"	"

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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-10

Station ID: Site #12 (508318)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		67.7	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	110		73.0	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.5	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	58.9		58.9	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	85.6		85.6	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	71.8		71.8	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	127		84.8	51-143	"	"
<i>Surr: Terphenyl-d14</i>	96.9		96.9	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-10

Station ID: Site #12 (508318)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-10

Station ID: Site #12 (508318)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-10

Station ID: Site #12 (508318)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	8		3.92	1	09/27/11	10/04/11
Unknown cyclic compound (NA)	6		7.64	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-10

Station ID: Site #12 (508318)

Batch: B1I2704

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,490		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	14.7		5.0	"	"	"
Barium (7440-39-3)	532		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	631		5.0	"	"	"
Molybdenum (7439-98-7)	12.3		5.0	"	"	"
Nickel (7440-02-2)	21.9		5.0	"	"	"
Selenium (7782-49-2)	U		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	5.4		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-11

Station ID: Site #11 (508317)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	101		67.4	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	107		71.6	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.5	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	57.5		57.5	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	84.9		84.9	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	72.9		72.9	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	124		82.8	51-143	"	"
<i>Surr: Terphenyl-d14</i>	98.4		98.4	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-11

Station ID: Site #11 (508317)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-11

Station ID: Site #11 (508317)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-11

Station ID: Site #11 (508317)

Batch: B1I2701

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (01) (NA)	5		3.46	1	09/27/11	10/04/11
Unknown (02) (NA)	6		3.93	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-11

Station ID: Site #11 (508317)

Batch: B1I2704

Date Collected: 08/18/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	785		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	U		5.0	"	"	"
Barium (7440-39-3)	319		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	414		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	U		5.0	"	"	"
Selenium (7782-49-2)	U		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-12

Station ID: Site #15 (508672)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	109		72.9	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	115		76.6	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	112		74.4	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	62.8		62.8	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	87.7		87.7	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	79.1		79.1	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	132		88.1	51-143	"	"
<i>Surr: Terphenyl-d14</i>	93.0		93.0	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-12

Station ID: Site #15 (508672)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-12

Station ID: Site #15 (508672)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-12

Station ID: Site #15 (508672)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecanoic acid (57-10-3)	9		9.30	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-12

Station ID: Site #15 (508672)

Batch: B1I2704

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	59.1	K	50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	7.1		5.0	"	"	"
Barium (7440-39-3)	146		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	146		5.0	"	"	"
Molybdenum (7439-98-7)	5.3		5.0	"	"	"
Nickel (7440-02-2)	10.7		5.0	"	"	"
Selenium (7782-49-2)	7.2		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	6.1		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-13

Station ID: Site #16 (508673)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	111		74.1	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	120		80.3	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	113		75.4	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	70.9		70.9	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	88.3		88.3	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	77.3		77.3	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	141		94.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	101		101	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-13

Station ID: Site #16 (508673)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-13

Station ID: Site #16 (508673)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-13

Station ID: Site #16 (508673)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Heptadecane (629-78-7)	5		8.11	1	09/27/11	10/04/11
Hexadecanoic acid (57-10-3)	12		9.30	"	"	"

Total # of TICs: 2

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-13

Station ID: Site #16 (508673)

Batch: B1I2704

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	466		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	7.3		5.0	"	"	"
Barium (7440-39-3)	148		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	5.0		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	146		5.0	"	"	"
Molybdenum (7439-98-7)	5.4		5.0	"	"	"
Nickel (7440-02-2)	11.6		5.0	"	"	"
Selenium (7782-49-2)	6.6		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	12.0		10.0	"	"	"
Uranium (7440-61-1)	6.3		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-14

Station ID: Site #18 (509500)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	94.1		62.8	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	95.9		63.9	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	101		67.5	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	55.0		55.0	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	82.5		82.5	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	68.1		68.1	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	135		89.7	51-143	"	"
<i>Surr: Terphenyl-d14</i>	95.9		95.9	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-14

Station ID: Site #18 (509500)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-14

Station ID: Site #18 (509500)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-14

Station ID: Site #18 (509500)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: **HTS**

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
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No TICs present in this sample.

BJS

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-14

Station ID: Site #18 (509500)

Batch: B1I2704

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,200		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	U		5.0	"	"	"
Barium (7440-39-3)	140		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	58.9		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	5.0		5.0	"	"	"
Selenium (7782-49-2)	U		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	12.4		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-15

Station ID: Site #19 (509501)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	101		67.3	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	113		75.5	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.2	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	59.9		59.9	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	83.1		83.1	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	77.9		77.9	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	131		87.1	51-143	"	"
<i>Surr: Terphenyl-d14</i>	95.6		95.6	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-15

Station ID: Site #19 (509501)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-15

Station ID: Site #19 (509501)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-15

Station ID: Site #19 (509501)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
C5H8O isomer (NA)	45		2.67	1	09/27/11	10/04/11
Unknown (01) (NA)	36		2.85	"	"	"
Unknown (02) (NA)	7		3.93	"	"	"
Unknown halogenated compound (01) (NA)	4		6.15	"	"	"
Unknown halogenated compound (02) (NA)	4		6.65	"	"	"
Unknown halogenated compound (03) (NA)	14		6.84	"	"	"
Tetradecanoic acid (544-63-8)	83		8.41	"	"	"
Hexadecenoic acid, Z-11- (2416-20-8)	8		9.23	"	"	"
Hexadecanoic acid (57-10-3)	51		9.31	"	"	"
Unknown halogenated compound (04) (NA)	37		10.04	"	"	"
9-Octadecenoic acid isomer (NA)	66		10.07	"	"	"

Total # of TICs: 11

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-15

Station ID: Site #19 (509501)

Batch: B1I2704

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	958		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	13.5		5.0	"	"	"
Barium (7440-39-3)	207		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	331		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	11.2		5.0	"	"	"
Selenium (7782-49-2)	9.4		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-16

Station ID: Site #20 (509502)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	102		68.0	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	109		72.7	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.1	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	58.7		58.7	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	82.9		82.9	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	76.8		76.8	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	129		86.2	51-143	"	"
<i>Surr: Terphenyl-d14</i>	97.3		97.3	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-16

Station ID: Site #20 (509502)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-16

Station ID: Site #20 (509502)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-16

Station ID: Site #20 (509502)

Batch: B1I2701

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
C5H8O isomer (NA)	32		2.67	1	09/27/11	10/04/11
Unknown (01) (NA)	26		2.85	"	"	"
Unknown (02) (NA)	9		3.93	"	"	"
Unknown halogenated compound (NA)	7		6.84	"	"	"
Tetradecanoic acid (544-63-8)	4		8.39	"	"	"
Hexadecanoic acid (57-10-3)	13		9.30	"	"	"

Total # of TICs: 6

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-16

Station ID: Site #20 (509502)

Batch: B1I2704

Date Collected: 09/14/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,260		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	12.2		5.0	"	"	"
Barium (7440-39-3)	180		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	392		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	11.1		5.0	"	"	"
Selenium (7782-49-2)	8.5		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-17

Station ID: Site #3 (506344A/506349B)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	101		67.5	39-109	09/27/11	10/04/11
<i>Surr: Phenol-d5</i>	109		72.9	41-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	104		69.1	45-104	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	68.5		68.5	34-100	"	"
<i>Surr: Nitrobenzene-d5</i>	82.3		82.3	41-128	"	"
<i>Surr: 2-Fluorobiphenyl</i>	77.6		77.6	46-108	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	123		81.7	51-143	"	"
<i>Surr: Terphenyl-d14</i>	93.1		93.1	60-133	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		4.0	1	09/27/11	10/04/11
Acenaphthylene (208-96-8)	U		4.0	"	"	"
Acetophenone (98-86-2)	U		10.0	"	"	"
Anthracene (120-12-7)	U		4.0	"	"	"
Atrazine (1912-24-9)	U		10.0	"	"	"
Benzaldehyde (100-52-7)	U		10.0	"	"	"
Benzoic acid (65-85-0)	U		20.0	"	"	"
Benzo (a) anthracene (56-55-3)	U		10.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		10.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		10.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		10.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		10.0	"	"	"
Benzyl alcohol (100-51-6)	U		10.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		10.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		10.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		10.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		10.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		10.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		10.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		10.0	"	"	"
Carbazole (86-74-8)	U		10.0	"	"	"
Caprolactam (105-60-2)	U		10.0	"	"	"
4-Chloroaniline (106-47-8)	U		10.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-17

Station ID: Site #3 (506344A/506349B)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		10.0	1	09/27/11	10/04/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		10.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		10.0	"	"	"
Chrysene (218-01-9)	U		10.0	"	"	"
Dibenzofuran (132-64-9)	U		10.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		10.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		10.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		10.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		10.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		10.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		10.0	"	"	"
Diethyl phthalate (84-66-2)	U		10.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		10.0	"	"	"
Dimethyl phthalate (131-11-3)	U		10.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		40.0	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		10.0	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		10.0	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		40.0	"	"	"
Di-n-butyl phthalate (84-74-2)	U		10.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		10.0	"	"	"
Fluoranthene (206-44-0)	U		4.0	"	"	"
Fluorene (86-73-7)	U		4.0	"	"	"
Hexachlorobenzene (118-74-1)	U		10.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		10.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		10.0	"	"	"
Hexachloroethane (67-72-1)	U		10.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		10.0	"	"	"
Isophorone (78-59-1)	U		10.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		4.0	"	"	"
2-Methylphenol (95-48-7)	U		10.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		10.0	"	"	"
Naphthalene (91-20-3)	U		4.0	"	"	"
2-Nitroaniline (88-74-4)	U		16.0	"	"	"
3-Nitroaniline (99-09-2)	U		16.0	"	"	"
4-Nitroaniline (100-01-6)	U		16.0	"	"	"
Nitrobenzene (98-95-3)	U		10.0	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-17

Station ID: Site #3 (506344A/506349B)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		10.0	1	09/27/11	10/04/11
4-Nitrophenol (100-02-7)	U		26.0	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		10.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		10.0	"	"	"
Pentachlorophenol (87-86-5)	U		10.0	"	"	"
Phenanthrene (85-01-8)	U		4.0	"	"	"
Phenol (108-95-2)	U		10.0	"	"	"
Pyrene (129-00-0)	U		4.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		10.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		10.0	"	"	"
Pyridine (110-86-1)	U		10.0	"	"	10/05/11



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1109034-17

Station ID: Site #3 (506344A/506349B)

Batch: B1I2701

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 500 ml

Sample Qualifiers: HTS

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown (NA)	7		3.92	1	09/27/11	10/04/11

Total # of TICs: 1

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 5% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

BJS



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Metals by EPA Method 6020 - ICP MS

Lab ID: 1109034-17

Station ID: Site #3 (506344A/506349B)

Batch: B1I2704

Date Collected: 08/26/11

Sample Type: Liquid

Sample Volume: 50 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	172		50.0	10	09/26/11	09/29/11
Antimony (7440-36-0)	U		5.0	"	"	"
Arsenic (7440-38-2)	6.8		5.0	"	"	"
Barium (7440-39-3)	165		5.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		5.0	"	"	"
Cobalt (7440-48-4)	U		5.0	"	"	"
Copper (7440-50-8)	U		5.0	"	"	"
Lead (7439-92-1)	U		5.0	"	"	"
Manganese (7439-96-5)	249		5.0	"	"	"
Molybdenum (7439-98-7)	U		5.0	"	"	"
Nickel (7440-02-2)	9.6		5.0	"	"	"
Selenium (7782-49-2)	7.3		5.0	"	"	"
Silver (7440-22-4)	U		5.0	"	"	"
Thallium (7440-28-0)	U		5.0	"	"	"
Vanadium (7440-62-2)	U		5.0	"	"	"
Zinc (7440-66-6)	U		10.0	"	"	"
Uranium (7440-61-1)	U		5.0	"	"	"
Thorium (7440-29-1)	U		5.0	"	"	"

KD



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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

Blank (B1I2701-BLK1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
Surr: 2-Fluorophenol	63.1		75.0	84.2	39-109
Surr: Phenol-d5	69.2		75.0	92.3	41-107
Surr: 2-Chlorophenol-d4	63.2		75.0	84.3	45-104
Surr: 1,2-Dichlorobenzene-d4	40.4		50.0	80.7	34-100
Surr: Nitrobenzene-d5	48.7		50.0	97.4	41-128
Surr: 2-Fluorobiphenyl	45.6		50.0	91.2	46-108
Surr: 2,4,6-Tribromophenol	70.2		75.0	93.6	51-143
Surr: Terphenyl-d14	46.0		50.0	92.0	60-133

Blank (B1I2701-BLK1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Acenaphthene	U	2.0
Acenaphthylene	U	2.0
Acetophenone	U	5.0
Anthracene	U	2.0
Atrazine	U	5.0
Benzaldehyde	U	5.0
Benzoic acid	U	10.0
Benzo (a) anthracene	U	5.0
Benzo (a) pyrene	U	5.0
Benzo (b) fluoranthene	U	5.0
Benzo (g,h,i) perylene	U	5.0
Benzo (k) fluoranthene	U	5.0
Benzyl alcohol	U	5.0
1,1'-Biphenyl	U	5.0
Bis(2-chloroethoxy)methane	U	5.0



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

Blank (B1I2701-BLK1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Bis(2-chloroethyl)ether	U	5.0
Bis(2-chloroisopropyl)ether	U	5.0
Bis(2-ethylhexyl)phthalate	U	5.0
4-Bromophenyl phenyl ether	U	5.0
Butyl benzyl phthalate	U	5.0
Carbazole	U	5.0
Caprolactam	U	5.0
4-Chloroaniline	U	5.0
2-Chloronaphthalene	U	5.0
2-Chlorophenol	U	5.0
4-Chlorophenyl phenyl ether	U	5.0
4-Chloro-3-methylphenol	U	5.0
Chrysene	U	5.0
Dibenzofuran	U	5.0
Dibenz (a,h) anthracene	U	5.0
1,2-Dichlorobenzene	U	5.0
1,3-Dichlorobenzene	U	5.0
1,4-Dichlorobenzene	U	5.0
3,3'-Dichlorobenzidine	U	5.0
2,4-Dichlorophenol	U	5.0
Diethyl phthalate	U	5.0
2,4-Dimethylphenol	U	5.0
Dimethyl phthalate	U	5.0
2,4-Dinitrophenol	U	20.0
2,4-Dinitrotoluene	U	5.0
2,6-Dinitrotoluene	U	5.0
4,6-Dinitro-2-methylphenol	U	20.0
Di-n-butyl phthalate	U	5.0
Di-n-octyl phthalate	U	5.0



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

Blank (B1I2701-BLK1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Fluoranthene	U	2.0
Fluorene	U	2.0
Hexachlorobenzene	U	5.0
Hexachlorobutadiene	U	5.0
Hexachlorocyclopentadiene	U	5.0
Hexachloroethane	U	5.0
Indeno (1,2,3-cd) pyrene	U	5.0
Isophorone	U	5.0
2-Methylnaphthalene	U	2.0
2-Methylphenol	U	5.0
3 &/or 4-Methylphenol	U	5.0
Naphthalene	U	2.0
2-Nitroaniline	U	8.0
3-Nitroaniline	U	8.0
4-Nitroaniline	U	8.0
Nitrobenzene	U	5.0
2-Nitrophenol	U	5.0
4-Nitrophenol	U	13.0
N-Nitrosodiphenylamine	U	5.0
N-Nitrosodi-n-propylamine	U	5.0
Pentachlorophenol	U	5.0
Phenanthrene	U	2.0
Phenol	U	5.0
Pyrene	U	2.0
1,2,4-Trichlorobenzene	U	5.0
2,4,5-Trichlorophenol	U	5.0
2,4,6-Trichlorophenol	U	5.0
Pyridine	U	5.0



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS (B1I2701-BS1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	64.8		75.0	86.4	39-109
<i>Surr: Phenol-d5</i>	67.6		75.0	90.1	41-107
<i>Surr: 2-Chlorophenol-d4</i>	63.0		75.0	84.1	45-104
<i>Surr: 1,2-Dichlorobenzene-d4</i>	41.2		50.0	82.4	34-100
<i>Surr: Nitrobenzene-d5</i>	48.6		50.0	97.2	41-128
<i>Surr: 2-Fluorobiphenyl</i>	45.5		50.0	90.9	46-108
<i>Surr: 2,4,6-Tribromophenol</i>	80.9		75.0	108	51-143
<i>Surr: Terphenyl-d14</i>	46.1		50.0	92.2	60-133

LCS (B1I2701-BS1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Acenaphthene	46.2		2.0	50.0	92.4	61-116
Acenaphthylene	46.2		2.0	50.0	92.5	70-121
Acetophenone	48.3		5.0	50.0	96.7	63-134
Anthracene	48.7		2.0	50.0	97.4	68-122
Atrazine	52.5		5.0	50.0	105	74-127
Benzaldehyde	45.7		5.0	50.0	91.3	53-136
Benzoic acid	46.9		10.0	50.0	93.9	41-134
Benzo (a) anthracene	52.8		5.0	50.0	106	76-125
Benzo (a) pyrene	57.0		5.0	50.0	114	75-125
Benzo (b) fluoranthene	52.3		5.0	50.0	105	70-130
Benzo (g,h,i) perylene	57.8		5.0	50.0	116	67-142
Benzo (k) fluoranthene	50.5		5.0	50.0	101	68-136
Benzyl alcohol	48.2		5.0	50.0	96.5	67-119
1,1'-Biphenyl	42.3		5.0	50.0	84.6	60-129
Bis(2-chloroethoxy)methane	46.8		5.0	50.0	93.6	66-126



Environmental Protection Agency
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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS (B1I2701-BS1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Bis(2-chloroethyl)ether	47.3		5.0	50.0	94.6	62-125
Bis(2-chloroisopropyl)ether	46.2		5.0	50.0	92.3	51-138
Bis(2-ethylhexyl)phthalate	56.9		5.0	50.0	114	79-138
4-Bromophenyl phenyl ether	50.0		5.0	50.0	100	64-123
Butyl benzyl phthalate	55.6		5.0	50.0	111	77-132
Carbazole	51.7		5.0	50.0	103	71-124
Caprolactam	50.5		5.0	50.0	101	56-124
4-Chloroaniline	43.6		5.0	50.0	87.3	54-122
2-Chloronaphthalene	44.8		5.0	50.0	89.5	62-122
2-Chlorophenol	45.5		5.0	50.0	91.0	66-115
4-Chlorophenyl phenyl ether	39.1		5.0	50.0	78.1	63-130
4-Chloro-3-methylphenol	50.5		5.0	50.0	101	63-119
Chrysene	50.5		5.0	50.0	101	76-125
Dibenzofuran	46.7		5.0	50.0	93.3	67-123
Dibenz (a,h) anthracene	59.2		5.0	50.0	118	61-145
1,2-Dichlorobenzene	38.2		5.0	50.0	76.4	48-100
1,3-Dichlorobenzene	34.6		5.0	50.0	69.1	36-100
1,4-Dichlorobenzene	36.2		5.0	50.0	72.5	36-100
3,3'-Dichlorobenzidine	60.0		5.0	50.0	120	40-139
2,4-Dichlorophenol	48.1		5.0	50.0	96.1	69-125
Diethyl phthalate	50.0		5.0	50.0	99.9	72-124
2,4-Dimethylphenol	43.5		5.0	50.0	87.1	48-136
Dimethyl phthalate	49.7		5.0	50.0	99.4	71-122
2,4-Dinitrophenol	54.0		20.0	50.0	108	42-152
2,4-Dinitrotoluene	54.6		5.0	50.0	109	61-121
2,6-Dinitrotoluene	51.6		5.0	50.0	103	68-128
4,6-Dinitro-2-methylphenol	54.6		20.0	50.0	109	46-146
Di-n-butyl phthalate	53.0		5.0	50.0	106	75-136
Di-n-octyl phthalate	54.5		5.0	50.0	109	64-134



Environmental Protection Agency
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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS (B1I2701-BS1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Fluoranthene	52.3	2.0	50.0	105 74-123
Fluorene	42.8	2.0	50.0	85.7 65-129
Hexachlorobenzene	48.5	5.0	50.0	97.1 67-121
Hexachlorobutadiene	40.5	5.0	50.0	81.0 29-112
Hexachlorocyclopentadiene	45.6	5.0	50.0	91.2 32-122
Hexachloroethane	33.2	5.0	50.0	66.5 24-100
Indeno (1,2,3-cd) pyrene	58.9	5.0	50.0	118 65-143
Isophorone	49.0	5.0	50.0	98.0 67-125
2-Methylnaphthalene	46.4	2.0	50.0	92.8 64-117
2-Methylphenol	46.5	5.0	50.0	93.0 60-131
3 &/or 4-Methylphenol	47.0	5.0	50.0	94.0 57-136
Naphthalene	43.1	2.0	50.0	86.2 65-115
2-Nitroaniline	53.0	8.0	50.0	106 65-126
3-Nitroaniline	55.7	8.0	50.0	111 57-136
4-Nitroaniline	63.4	8.0	50.0	127 64-137
Nitrobenzene	46.7	5.0	50.0	93.3 68-126
2-Nitrophenol	51.2	5.0	50.0	102 62-137
4-Nitrophenol	52.2	13.0	50.0	104 52-132
N-Nitrosodiphenylamine	48.8	5.0	50.0	97.5 66-125
N-Nitrosodi-n-propylamine	51.0	5.0	50.0	102 61-123
Pentachlorophenol	56.3	5.0	50.0	113 49-134
Phenanthrene	48.8	2.0	50.0	97.6 69-121
Phenol	44.0	5.0	50.0	88.0 62-115
Pyrene	47.9	2.0	50.0	95.7 58-134
1,2,4-Trichlorobenzene	43.0	5.0	50.0	86.0 40-100
2,4,5-Trichlorophenol	51.0	5.0	50.0	102 68-127
2,4,6-Trichlorophenol	50.3	5.0	50.0	101 65-128
Pyridine	35.9	5.0	50.0	71.8 70-130



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS Dup (B1I2701-BSD1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
Surr: 2-Fluorophenol	63.9		75.0	85.1	39-109
Surr: Phenol-d5	65.4		75.0	87.3	41-107
Surr: 2-Chlorophenol-d4	61.6		75.0	82.2	45-104
Surr: 1,2-Dichlorobenzene-d4	39.4		50.0	78.8	34-100
Surr: Nitrobenzene-d5	47.3		50.0	94.5	41-128
Surr: 2-Fluorobiphenyl	45.2		50.0	90.5	46-108
Surr: 2,4,6-Tribromophenol	80.3		75.0	107	51-143
Surr: Terphenyl-d14	44.6		50.0	89.3	60-133

LCS Dup (B1I2701-BSD1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Acenaphthene	46.4		2.0	50.0		92.7	61-116	0.30	30
Acenaphthylene	46.0		2.0	50.0		92.1	70-121	0.43	30
Acetophenone	47.8		5.0	50.0		95.5	63-134	1.19	30
Anthracene	49.2		2.0	50.0		98.5	68-122	1.10	30
Atrazine	51.9		5.0	50.0		104	74-127	1.15	30
Benzaldehyde	45.5		5.0	50.0		91.0	53-136	0.35	30
Benzoic acid	52.2		10.0	50.0		104	41-134	10.7	30
Benzo (a) anthracene	52.5		5.0	50.0		105	76-125	0.61	30
Benzo (a) pyrene	56.0		5.0	50.0		112	75-125	1.63	30
Benzo (b) fluoranthene	50.7		5.0	50.0		101	70-130	3.18	30
Benzo (g,h,i) perylene	60.4		5.0	50.0		121	67-142	4.44	30
Benzo (k) fluoranthene	50.3		5.0	50.0		101	68-136	0.50	30
Benzyl alcohol	47.0		5.0	50.0		94.0	67-119	2.65	30
1,1'-Biphenyl	42.0		5.0	50.0		84.1	60-129	0.62	30
Bis(2-chloroethoxy)methane	46.5		5.0	50.0		93.0	66-126	0.64	30



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS Dup (B1I2701-BSD1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	47.0		5.0	50.0		93.9 62-125	0.70	30
Bis(2-chloroisopropyl)ether	45.4		5.0	50.0		90.8 51-138	1.59	30
Bis(2-ethylhexyl)phthalate	55.3		5.0	50.0		111 79-138	2.85	30
4-Bromophenyl phenyl ether	50.2		5.0	50.0		100 64-123	0.36	30
Butyl benzyl phthalate	53.5		5.0	50.0		107 77-132	3.76	30
Carbazole	52.0		5.0	50.0		104 71-124	0.64	30
Caprolactam	52.0		5.0	50.0		104 56-124	2.97	30
4-Chloroaniline	45.0		5.0	50.0		89.9 54-122	2.96	30
2-Chloronaphthalene	44.6		5.0	50.0		89.3 62-122	0.31	30
2-Chlorophenol	45.2		5.0	50.0		90.4 66-115	0.68	30
4-Chlorophenyl phenyl ether	39.4		5.0	50.0		78.8 63-130	0.84	30
4-Chloro-3-methylphenol	50.8		5.0	50.0		102 63-119	0.59	30
Chrysene	49.7		5.0	50.0		99.4 76-125	1.50	30
Dibenzofuran	47.2		5.0	50.0		94.4 67-123	1.15	30
Dibenz (a,h) anthracene	62.8		5.0	50.0		126 61-145	5.94	30
1,2-Dichlorobenzene	37.6		5.0	50.0		75.1 48-100	1.74	30
1,3-Dichlorobenzene	33.3		5.0	50.0		66.6 36-100	3.68	30
1,4-Dichlorobenzene	35.3		5.0	50.0		70.7 36-100	2.52	30
3,3'-Dichlorobenzidine	58.5		5.0	50.0		117 40-139	2.51	30
2,4-Dichlorophenol	48.1		5.0	50.0		96.2 69-125	0.08	30
Diethyl phthalate	49.9		5.0	50.0		99.9 72-124	0.02	30
2,4-Dimethylphenol	44.0		5.0	50.0		87.9 48-136	0.94	30
Dimethyl phthalate	49.7		5.0	50.0		99.3 71-122	0.06	30
2,4-Dinitrophenol	59.4		20.0	50.0		119 42-152	9.53	30
2,4-Dinitrotoluene	54.5		5.0	50.0		109 61-121	0.16	30
2,6-Dinitrotoluene	51.5		5.0	50.0		103 68-128	0.14	30
4,6-Dinitro-2-methylphenol	57.0		20.0	50.0		114 46-146	4.36	30
Di-n-butyl phthalate	53.6		5.0	50.0		107 75-136	0.99	30
Di-n-octyl phthalate	53.8		5.0	50.0		108 64-134	1.37	30



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B1I2701

Sample Type: Liquid

LCS Dup (B1I2701-BSD1)

Prepared: 9/27/2011 Analyzed: 10/4/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit
Fluoranthene	52.7	2.0	50.0		105 74-123	0.65	30
Fluorene	43.0	2.0	50.0		86.0 65-129	0.35	30
Hexachlorobenzene	48.4	5.0	50.0		96.7 67-121	0.33	30
Hexachlorobutadiene	39.5	5.0	50.0		79.0 29-112	2.55	30
Hexachlorocyclopentadiene	45.0	5.0	50.0		90.1 32-122	1.26	30
Hexachloroethane	31.1	5.0	50.0		62.2 24-100	6.72	30
Indeno (1,2,3-cd) pyrene	62.2	5.0	50.0		124 65-143	5.45	30
Isophorone	48.6	5.0	50.0		97.2 67-125	0.76	30
2-Methylnaphthalene	46.5	2.0	50.0		93.1 64-117	0.34	30
2-Methylphenol	45.7	5.0	50.0		91.3 60-131	1.76	30
3 &/or 4-Methylphenol	46.1	5.0	50.0		92.2 57-136	1.91	30
Naphthalene	43.0	2.0	50.0		86.0 65-115	0.16	30
2-Nitroaniline	53.9	8.0	50.0		108 65-126	1.70	30
3-Nitroaniline	56.4	8.0	50.0		113 57-136	1.39	30
4-Nitroaniline	66.2	8.0	50.0		132 64-137	4.37	30
Nitrobenzene	46.4	5.0	50.0		92.8 68-126	0.54	30
2-Nitrophenol	51.5	5.0	50.0		103 62-137	0.62	30
4-Nitrophenol	53.9	13.0	50.0		108 52-132	3.20	30
N-Nitrosodiphenylamine	49.2	5.0	50.0		98.3 66-125	0.80	30
N-Nitrosodi-n-propylamine	49.6	5.0	50.0		99.1 61-123	2.84	30
Pentachlorophenol	58.0	5.0	50.0		116 49-134	2.94	30
Phenanthrene	48.4	2.0	50.0		96.8 69-121	0.76	30
Phenol	43.6	5.0	50.0		87.1 62-115	1.07	30
Pyrene	47.1	2.0	50.0		94.3 58-134	1.54	30
1,2,4-Trichlorobenzene	42.1	5.0	50.0		84.3 40-100	2.00	30
2,4,5-Trichlorophenol	50.9	5.0	50.0		102 68-127	0.04	30
2,4,6-Trichlorophenol	50.7	5.0	50.0		101 65-128	0.83	30
Pyridine	38.2	5.0	50.0		76.4 70-130	6.21	30



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Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2104

Sample Type: Phasic by Wt.

Blank (B1I2104-BLK1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Aluminum	U	50.0
Antimony	U	5.0
Arsenic	U	5.0
Barium	U	5.0
Beryllium	U	5.0
Cadmium	U	5.0
Chromium	U	5.0
Cobalt	U	5.0
Copper	U	5.0
Lead	U	5.0
Manganese	U	5.0
Molybdenum	U	5.0
Nickel	U	5.0
Selenium	U	5.0
Silver	U	5.0
Thallium	U	5.0
Vanadium	U	5.0
Zinc	U	10.0
Uranium	U	5.0
Thorium	U	5.0

LCS (B1I2104-BS1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Aluminum	175	50.0	200	87.3 85-115
Antimony	204	5.0	200	102 85-115



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2104

Sample Type: Phasic by Wt.

LCS (B1I2104-BS1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Arsenic	210		5.0	200	105	85-115
Barium	201		5.0	200	101	85-115
Beryllium	201		5.0	200	101	85-115
Cadmium	207		5.0	200	103	85-115
Chromium	205		5.0	200	102	85-115
Cobalt	216		5.0	200	108	85-115
Copper	206		5.0	200	103	85-115
Lead	219		5.0	200	109	85-115
Manganese	213		5.0	200	107	85-115
Molybdenum	200		5.0	200	100	85-115
Nickel	206		5.0	200	103	85-115
Selenium	217		5.0	200	109	85-115
Silver	205		5.0	200	103	85-115
Thallium	214		5.0	200	107	85-115
Vanadium	195		5.0	200	97.6	85-115
Zinc	209		10.0	200	105	85-115
Uranium	205		5.0	200	102	85-115
Thorium	203		5.0			85-115

Matrix Spike (B1I2104-MS1)

Source: 1109024-09

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Aluminum	17,200		4,500	18,000	21.6	95.6	70-130
Antimony	18,400		450	18,000	14.3	102	70-130
Arsenic	19,100		450	18,000		106	70-130
Barium	18,500		450	18,000	84.4	102	70-130



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2104

Sample Type: Phasic by Wt.

Matrix Spike (B1I2104-MS1)

Source: 1109024-09

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Beryllium	18,000		450	18,000	2.2	100	70-130
Cadmium	18,700		450	18,000		104	70-130
Chromium	18,500		450	18,000	397	101	70-130
Cobalt	19,500		450	18,000	16.6	108	70-130
Copper	18,400		450	18,000	94.7	102	70-130
Lead	19,700		450	18,000	408	107	70-130
Manganese	22,800		450	18,000	2,560	113	70-130
Molybdenum	18,200		450	18,000	35.0	101	70-130
Nickel	18,500		450	18,000	69.0	102	70-130
Selenium	20,000		450	18,000		111	70-130
Silver	18,500		450	18,000	3.3	103	70-130
Thallium	19,400		450	18,000	350	106	70-130
Vanadium	17,700		450	18,000		98.2	70-130
Zinc	19,800		899	18,000	131	110	70-130
Uranium	18,600		450	18,000	46.2	103	70-130
Thorium	18,400		450		36.5		70-130

Matrix Spike Dup (B1I2104-MSD1)

Source: 1109024-09

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	22,900		4,990	20,000	21.6	114	70-130	28.1 #	20
Antimony	20,300		499	20,000	14.3	102	70-130	9.80	20
Arsenic	21,400		499	20,000		107	70-130	11.6	20
Barium	20,500		499	20,000	84.4	102	70-130	10.2	20
Beryllium	20,200		499	20,000	2.2	101	70-130	11.6	20
Cadmium	20,500		499	20,000		103	70-130	9.14	20



Environmental Protection Agency
Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2104

Sample Type: Phasic by Wt.

Matrix Spike Dup (B1I2104-MSD1)

Source: 1109024-09

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	Limit
Chromium	20,500		499	20,000	397	101 70-130	9.94	20
Cobalt	21,300		499	20,000	16.6	107 70-130	8.93	20
Copper	20,200		499	20,000	94.7	101 70-130	9.67	20
Lead	22,000		499	20,000	408	108 70-130	10.8	20
Manganese	32,700		499	20,000	2,560	151 # 70-130	35.6 #	20
Molybdenum	20,100		499	20,000	35.0	101 70-130	10.0	20
Nickel	20,400		499	20,000	69.0	102 70-130	9.92	20
Selenium	21,800		499	20,000		109 70-130	8.59	20
Silver	20,300		499	20,000	3.3	102 70-130	9.53	20
Thallium	21,600		499	20,000	350	107 70-130	10.7	20
Vanadium	19,500		499	20,000		97.8 70-130	9.97	20
Zinc	21,500		998	20,000	131	107 70-130	7.83	20
Uranium	20,800		499	20,000	46.2	104 70-130	11.3	20
Thorium	20,400		499		36.5	70-130	10.1	20

Reference (B1I2104-SRM1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	Limit
Aluminum	82,900		19,100	115,000		72.1 47.6-152		
Antimony	41,000		1,910	66,000		62.1 41.8-157		
Arsenic	154,000		1,910	253,000		61.1 60.8-139		
Barium	1,550		1,910	1,600		96.6 62.5-137		
Beryllium	5,980		1,910	4,900		122 61.2-138		
Cadmium	12,600		1,910	10,900		116 70.6-128		
Chromium	30,500		1,910	27,100		113 68.3-131		
Cobalt	28,400		1,910	37,400		75.8 64.7-135		



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2104

Sample Type: Phasic by Wt.

Reference (B1I2104-SRM1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Copper	1,870,000	1,910	1.77E6	106	74.6-126	
Lead	61,900	1,910	56,900	109	72.7-127	
Manganese	76,400	1,910	61,000	125	68.2-132	
Nickel	19,300	1,910	16,300	118	55.2-145	
Selenium	4,330	1,910	10,000	43.3	41-159	
Silver	6,460	1,910	5,900	110	45.8-154	
Thallium	11,200	1,910	9,500	117	30.5-169	
Vanadium	16,800	1,910	17,600	95.7	65.9-134	
Zinc	35,900	3,820	47,500	75.7	43.2-156	



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2105

Sample Type: Liquid

Blank (B1I2105-BLK1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Aluminum	U	50.0
Antimony	U	5.0
Arsenic	U	5.0
Barium	U	5.0
Beryllium	U	5.0
Cadmium	U	5.0
Chromium	U	5.0
Cobalt	U	5.0
Copper	U	5.0
Lead	U	5.0
Manganese	U	5.0
Molybdenum	U	5.0
Nickel	U	5.0
Selenium	U	5.0
Silver	U	5.0
Thallium	U	5.0
Vanadium	U	5.0
Zinc	U	10.0
Uranium	U	5.0
Thorium	U	5.0

LCS (B1I2105-BS1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Aluminum	184	50.0	200	92.2 85-115
Antimony	202	5.0	200	101 85-115



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2105

Sample Type: Liquid

LCS (B1I2105-BS1)

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Arsenic	207		5.0	200	104	85-115
Barium	203		5.0	200	101	85-115
Beryllium	205		5.0	200	102	85-115
Cadmium	206		5.0	200	103	85-115
Chromium	207		5.0	200	103	85-115
Cobalt	221		5.0	200	111	85-115
Copper	207		5.0	200	104	85-115
Lead	217		5.0	200	109	85-115
Manganese	220		5.0	200	110	85-115
Molybdenum	203		5.0	200	101	85-115
Nickel	207		5.0	200	104	85-115
Selenium	215		5.0	200	108	85-115
Silver	205		5.0	200	103	85-115
Thallium	218		5.0	200	109	85-115
Vanadium	205		5.0	200	102	85-115
Zinc	213		10.0	200	106	85-115
Uranium	206		5.0	200	103	85-115
Thorium	206		5.0			85-115

Matrix Spike (B1I2105-MS1)

Source: 1109024-01

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Aluminum	1,190		50.0	200	1,320	NR	# 70-130
Antimony	202		5.0	200	0.4	101	70-130
Arsenic	224		5.0	200	7.7	108	70-130
Barium	393		5.0	200	196	98.6	70-130



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2105

Sample Type: Liquid

Matrix Spike (B1I2105-MS1)

Source: 1109024-01

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Beryllium	207		5.0	200	0.1	104	70-130
Cadmium	203		5.0	200		101	70-130
Chromium	200		5.0	200	3.3	98.5	70-130
Cobalt	212		5.0	200	1.6	105	70-130
Copper	196		5.0	200	4.8	95.5	70-130
Lead	221		5.0	200	5.6	108	70-130
Manganese	676		5.0	200	482	97.0	70-130
Molybdenum	214		5.0	200	5.8	104	70-130
Nickel	209		5.0	200	11.2	98.7	70-130
Selenium	230		5.0	200	8.0	111	70-130
Silver	192		5.0	200	0.03	95.8	70-130
Thallium	217		5.0	200	2.8	107	70-130
Vanadium	206		5.0	200	1.9	102	70-130
Zinc	208		10.0	200	6.8	100	70-130
Uranium	230		5.0	200	5.9	112	70-130
Thorium	208		5.0		0.5		70-130

Matrix Spike Dup (B1I2105-MSD1)

Source: 1109024-01

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit
Aluminum	1,260		50.0	200	1,320	NR #	70-130	5.92	20
Antimony	205		5.0	200	0.4	102	70-130	1.24	20
Arsenic	217		5.0	200	7.7	105	70-130	3.16	20
Barium	403		5.0	200	196	104	70-130	2.60	20
Beryllium	217		5.0	200	0.1	109	70-130	4.74	20
Cadmium	206		5.0	200		103	70-130	1.56	20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2105

Sample Type: Liquid

Matrix Spike Dup (B1I2105-MSD1)

Source: 1109024-01

Prepared: 9/20/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Chromium	200		5.0	200	3.3	98.4 70-130	0.10	20
Cobalt	206		5.0	200	1.6	102 70-130	2.59	20
Copper	193		5.0	200	4.8	94.3 70-130	1.29	20
Lead	224		5.0	200	5.6	109 70-130	1.52	20
Manganese	679		5.0	200	482	98.2 70-130	0.37	20
Molybdenum	212		5.0	200	5.8	103 70-130	0.94	20
Nickel	201		5.0	200	11.2	94.8 70-130	3.76	20
Selenium	223		5.0	200	8.0	108 70-130	2.73	20
Silver	193		5.0	200	0.03	96.6 70-130	0.86	20
Thallium	222		5.0	200	2.8	109 70-130	2.20	20
Vanadium	211		5.0	200	1.9	105 70-130	2.41	20
Zinc	200		10.0	200	6.8	96.7 70-130	3.57	20
Uranium	236		5.0	200	5.9	115 70-130	2.55	20
Thorium	208		5.0		0.5	70-130	0.35	20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2703

Sample Type: Phasic by Wt.

Blank (B1I2703-BLK1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Aluminum	U	5,000
Antimony	U	500
Arsenic	U	500
Barium	U	500
Beryllium	U	500
Cadmium	U	500
Chromium	U	500
Cobalt	U	500
Copper	U	500
Lead	U	500
Manganese	U	500
Molybdenum	U	500
Nickel	U	500
Selenium	U	500
Silver	U	500
Thallium	U	500
Vanadium	U	500
Zinc	U	1,000
Uranium	U	500
Thorium	U	500

LCS (B1I2703-BS1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Aluminum	17,900	5,000	20,000	89.5 85-115
Antimony	20,700	500	20,000	104 85-115



Environmental Protection Agency
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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2703

Sample Type: Phasic by Wt.

LCS (B1I2703-BS1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Arsenic	21,500		500	20,000	108	85-115
Barium	20,500		500	20,000	103	85-115
Beryllium	20,900		500	20,000	104	85-115
Cadmium	21,100		500	20,000	105	85-115
Chromium	20,600		500	20,000	103	85-115
Cobalt	21,400		500	20,000	107	85-115
Copper	20,600		500	20,000	103	85-115
Lead	22,100		500	20,000	110	85-115
Manganese	21,400		500	20,000	107	85-115
Molybdenum	20,100		500	20,000	101	85-115
Nickel	20,500		500	20,000	102	85-115
Selenium	22,300		500	20,000	112	85-115
Silver	20,500		500	20,000	102	85-115
Thallium	21,300		500	20,000	107	85-115
Vanadium	20,200		500	20,000	101	85-115
Zinc	20,900		1,000	20,000	105	85-115
Uranium	20,800		500	20,000	104	85-115
Thorium	20,800		500			85-115

Matrix Spike (B1I2703-MS1)

Source: 1109034-06

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Aluminum	20,400		4,380	17,500	2,410	103	70-130
Antimony	17,900		438	17,500	10.7	102	70-130
Arsenic	19,100		438	17,500	42.0	109	70-130
Barium	18,100		438	17,500	295	101	70-130



Environmental Protection Agency
Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2703

Sample Type: Phasic by Wt.

Matrix Spike (B1I2703-MS1)

Source: 1109034-06

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Beryllium	18,300		438	17,500	1.7	104	70-130
Cadmium	18,200		438	17,500		104	70-130
Chromium	17,400		438	17,500	292	97.9	70-130
Cobalt	18,400		438	17,500	17.2	105	70-130
Copper	17,500		438	17,500	120	99.0	70-130
Lead	19,100		438	17,500	225	108	70-130
Manganese	23,200		438	17,500	4,240	108	70-130
Molybdenum	17,600		438	17,500	38.4	100	70-130
Nickel	17,600		438	17,500	63.0	100	70-130
Selenium	19,500		438	17,500		111	70-130
Silver	17,800		438	17,500		102	70-130
Thallium	18,800		438	17,500	310	106	70-130
Vanadium	17,100		438	17,500		97.9	70-130
Zinc	18,000		876	17,500		103	70-130
Uranium	18,300		438	17,500	85.0	104	70-130
Thorium	18,000		438		41.3		70-130

Matrix Spike Dup (B1I2703-MSD1)

Source: 1109034-06

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit
Aluminum	20,700		4,780	19,100	2,410	95.6	70-130	1.40	20
Antimony	19,300		478	19,100	10.7	101	70-130	7.28	20
Arsenic	20,600		478	19,100	42.0	108	70-130	7.56	20
Barium	19,400		478	19,100	295	99.8	70-130	7.02	20
Beryllium	19,300		478	19,100	1.7	101	70-130	5.60	20
Cadmium	19,500		478	19,100		102	70-130	7.05	20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2703

Sample Type: Phasic by Wt.

Matrix Spike Dup (B1I2703-MSD1)

Source: 1109034-06

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Chromium	19,000		478	19,100	292	97.6 70-130	8.36	20
Cobalt	20,000		478	19,100	17.2	105 70-130	8.63	20
Copper	18,800		478	19,100	120	97.6 70-130	7.34	20
Lead	20,600		478	19,100	225	107 70-130	7.79	20
Manganese	23,900		478	19,100	4,240	103 70-130	2.89	20
Molybdenum	19,100		478	19,100	38.4	99.6 70-130	7.86	20
Nickel	19,000		478	19,100	63.0	99.2 70-130	7.82	20
Selenium	21,400		478	19,100		112 70-130	9.53	20
Silver	19,300		478	19,100		101 70-130	8.02	20
Thallium	20,300		478	19,100	310	105 70-130	7.64	20
Vanadium	18,700		478	19,100		97.8 70-130	8.73	20
Zinc	19,300		956	19,100		101 70-130	7.00	20
Uranium	19,500		478	19,100	85.0	102 70-130	6.49	20
Thorium	19,300		478		41.3	70-130	6.69	20

Reference (B1I2703-SRM1)

Prepared: 9/27/2011 Analyzed: 9/30/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	95,700		19,200	115,000		83.2 47.6-152		
Antimony	66,000		1,920	66,000		100 41.8-157		
Arsenic	252,000		1,920	253,000		99.5 60.8-139		
Barium	1,610		1,920	1,600		100 62.5-137		
Beryllium	6,270		1,920	4,900		128 61.2-138		
Cadmium	13,500		1,920	10,900		124 70.6-128		
Chromium	32,300		1,920	27,100		119 68.3-131		
Cobalt	41,800		1,920	37,400		112 64.7-135		



Environmental Protection Agency
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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2703

Sample Type: Phasic by Wt.

Reference (B1I2703-SRM1)

Prepared: 9/27/2011 Analyzed: 9/30/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit
Copper	2,070,000	1,920	1.77E6		117 74.6-126	
Lead	66,800	1,920	56,900		117 72.7-127	
Manganese	82,100	1,920	61,000		135 # 68.2-132	
Nickel	18,000	1,920	16,300		111 55.2-145	
Selenium	9,870	1,920	10,000		98.7 41-159	
Silver	5,570	1,920	5,900		94.4 45.8-154	
Thallium	11,500	1,920	9,500		122 30.5-169	
Vanadium	19,200	1,920	17,600		109 65.9-134	
Zinc	42,700	3,830	47,500		90.0 43.2-156	



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

Blank (B1I2704-BLK1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Aluminum	U	50.0
Antimony	U	5.0
Arsenic	U	5.0
Barium	U	5.0
Beryllium	U	5.0
Cadmium	U	5.0
Chromium	U	5.0
Cobalt	U	5.0
Copper	U	5.0
Lead	U	5.0
Manganese	U	5.0
Molybdenum	U	5.0
Nickel	U	5.0
Selenium	U	5.0
Silver	U	5.0
Thallium	U	5.0
Vanadium	U	5.0
Zinc	U	10.0
Uranium	U	5.0
Thorium	U	5.0

LCS (B1I2704-BS1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Aluminum	173	50.0	200	86.6 85-115
Antimony	207	5.0	200	103 85-115



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

LCS (B1I2704-BS1)

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Arsenic	211		5.0	200	105	85-115
Barium	205		5.0	200	102	85-115
Beryllium	210		5.0	200	105	85-115
Cadmium	207		5.0	200	104	85-115
Chromium	203		5.0	200	102	85-115
Cobalt	217		5.0	200	108	85-115
Copper	210		5.0	200	105	85-115
Lead	220		5.0	200	110	85-115
Manganese	216		5.0	200	108	85-115
Molybdenum	201		5.0	200	100	85-115
Nickel	208		5.0	200	104	85-115
Selenium	216		5.0	200	108	85-115
Silver	204		5.0	200	102	85-115
Thallium	219		5.0	200	109	85-115
Vanadium	197		5.0	200	98.7	85-115
Zinc	221		10.0	200	110	85-115
Uranium	206		5.0	200	103	85-115
Thorium	207		5.0			85-115

Matrix Spike (B1I2704-MS1)

Source: 1109034-01

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Aluminum	766		50.0	200	605	80.4	70-130
Antimony	208		5.0	200	0.5	104	70-130
Arsenic	222		5.0	200	8.0	107	70-130
Barium	385		5.0	200	181	102	70-130



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

Matrix Spike (B1I2704-MS1)

Source: 1109034-01

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Beryllium	207		5.0	200	0.08	104	70-130
Cadmium	206		5.0	200		103	70-130
Chromium	195		5.0	200	3.0	96.2	70-130
Cobalt	208		5.0	200	1.2	103	70-130
Copper	194		5.0	200	4.9	94.7	70-130
Lead	226		5.0	200	3.9	111	70-130
Manganese	456		5.0	200	248	104	70-130
Molybdenum	214		5.0	200	5.5	104	70-130
Nickel	203		5.0	200	11.7	95.7	70-130
Selenium	229		5.0	200	8.3	110	70-130
Silver	193		5.0	200	0.008	96.3	70-130
Thallium	220		5.0	200	3.9	108	70-130
Vanadium	207		5.0	200	1.5	103	70-130
Zinc	202		10.0	200	6.5	97.6	70-130
Uranium	234		5.0	200	5.9	114	70-130
Thorium	215		5.0		0.6		70-130

Matrix Spike (B1I2704-MS2)

Source: 1109034-12

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Aluminum	322		50.0	200	59.1	131	# 70-130
Antimony	210		5.0	200	0.4	105	70-130
Arsenic	217		5.0	200	7.1	105	70-130
Barium	346		5.0	200	146	100	70-130
Beryllium	209		5.0	200	0.03	104	70-130
Cadmium	204		5.0	200		102	70-130



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

Matrix Spike (B1I2704-MS2)

Source: 1109034-12

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Chromium	195		5.0	200	2.0	96.6	70-130
Cobalt	199		5.0	200	0.9	99.0	70-130
Copper	189		5.0	200	4.0	92.6	70-130
Lead	222		5.0	200	2.8	109	70-130
Manganese	346		5.0	200	146	99.7	70-130
Molybdenum	206		5.0	200	5.3	100	70-130
Nickel	197		5.0	200	10.7	93.3	70-130
Selenium	223		5.0	200	7.2	108	70-130
Silver	190		5.0	200		94.9	70-130
Thallium	221		5.0	200	1.1	110	70-130
Vanadium	204		5.0	200	0.6	102	70-130
Zinc	194		10.0	200	4.4	94.9	70-130
Uranium	233		5.0	200	6.1	113	70-130
Thorium	222		5.0		0.03		70-130

Matrix Spike Dup (B1I2704-MSD1)

Source: 1109034-01

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	768		50.0	200	605	81.6	70-130	0.31	20
Antimony	208		5.0	200	0.5	104	70-130	0.01	20
Arsenic	221		5.0	200	8.0	107	70-130	0.57	20
Barium	385		5.0	200	181	102	70-130	0.02	20
Beryllium	217		5.0	200	0.08	109	70-130	4.81	20
Cadmium	205		5.0	200		103	70-130	0.20	20
Chromium	200		5.0	200	3.0	98.4	70-130	2.30	20
Cobalt	204		5.0	200	1.2	101	70-130	1.88	20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

Matrix Spike Dup (B1I2704-MSD1)

Source: 1109034-01

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Copper	195		5.0	200	4.9	94.8	70-130	0.14	20
Lead	225		5.0	200	3.9	110	70-130	0.49	20
Manganese	447		5.0	200	248	99.7	70-130	1.97	20
Molybdenum	206		5.0	200	5.5	100	70-130	3.46	20
Nickel	203		5.0	200	11.7	95.6	70-130	0.05	20
Selenium	223		5.0	200	8.3	107	70-130	2.83	20
Silver	191		5.0	200	0.008	95.5	70-130	0.83	20
Thallium	221		5.0	200	3.9	108	70-130	0.28	20
Vanadium	209		5.0	200	1.5	104	70-130	0.84	20
Zinc	202		10.0	200	6.5	97.5	70-130	0.07	20
Uranium	235		5.0	200	5.9	115	70-130	0.49	20
Thorium	219		5.0		0.6		70-130	1.62	20

Matrix Spike Dup (B1I2704-MSD2)

Source: 1109034-12

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	284		50.0	200	59.1	112	70-130	12.6	20
Antimony	212		5.0	200	0.4	106	70-130	1.13	20
Arsenic	219		5.0	200	7.1	106	70-130	0.96	20
Barium	357		5.0	200	146	106	70-130	3.02	20
Beryllium	208		5.0	200	0.03	104	70-130	0.45	20
Cadmium	205		5.0	200		103	70-130	0.54	20
Chromium	199		5.0	200	2.0	98.6	70-130	2.10	20
Cobalt	202		5.0	200	0.9	100	70-130	1.26	20
Copper	193		5.0	200	4.0	94.5	70-130	1.92	20
Lead	224		5.0	200	2.8	111	70-130	1.21	20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B1I2704

Sample Type: Liquid

Matrix Spike Dup (B1I2704-MSD2)

Source: 1109034-12

Prepared: 9/26/2011 Analyzed: 9/29/2011

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Manganese	347		5.0	200	146	100 70-130	0.26	20
Molybdenum	208		5.0	200	5.3	101 70-130	1.03	20
Nickel	199		5.0	200	10.7	94.4 70-130	1.12	20
Selenium	220		5.0	200	7.2	106 70-130	1.10	20
Silver	191		5.0	200		95.5 70-130	0.60	20
Thallium	222		5.0	200	1.1	110 70-130	0.60	20
Vanadium	207		5.0	200	0.6	103 70-130	1.65	20
Zinc	196		10.0	200	4.4	95.9 70-130	0.99	20
Uranium	237		5.0	200	6.1	115 70-130	1.63	20
Thorium	226		5.0		0.03	70-130	1.93	20



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Notes and Definitions

K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.