ENVIRONMENTAL TROUBLESHOOTERS, INC.

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February 5, 2015

Mr. Chris Saari
Wisconsin Department of Natural Resources
2501 Golf Course Road
Ashland, WI 54806

RE: Supplemental Site Investigation Work Plan
Fraser Shipyards Inc.
1 Clough Ave, Superior, WI 54880
Punch Shed Building Addition Spill
BRRTs 02-16-~~562599~~ 562899
ET Project No. 14-1004

Dear Mr. Saari,

Pursuant to the letter from Ms. Endsley of your office dated December 8, 2014, Environmental Troubleshooters (ET) completed and implemented the initial site investigation work plan (SIWP – February 5, 2015) at the above-referenced site.

A significant amount of data has been collected, but additional investigation is needed to complete the delineation. This Supplemental SIWP has been prepared in accordance with NR716.09 to complete the investigation of the Punch Shed Building Addition release.

The site address is 1 Clough Ave, Superior, Wisconsin. The Fraser Shipyard is a large facility that includes portions of the south half of Section 11 and north half of Section 14, T49N, R14W, in Douglas County, Wisconsin. The specific spill area is located in the SE ¼ of the SW ¼ of Section 11, T49N, R14W. Figure 1 depicts the site location on a topographic map. Figure 2 depicts the entire shipyard on a recent aerial photograph, including the new building development area (i.e. the Punch Shed Building Addition).

The purpose of the site investigation is to define and characterize the contaminants, hydrogeology and receptors at the site. This site investigation is being conducted on behalf of:

Fraser Shipyards Inc.
1 Clough Ave.
Superior, WI 54880
Attn: Mr. Tom Curelli
Phone:(715) 394-7787

The Punch Shed Building Addition spill is being addressed as a legacy release as there are no known active releases or sources of potential releases to the area. As discussed in the background section below, contaminants were encountered during building footing test pits and geotechnical borings conducted during the design phase of the Punch Shed Addition. Subsequent research and test pit sampling by ET better identified the apparent historic sources for the release.

Background and Receptor Analysis

The site history, prior investigation work, test pit sampling results and receptor analysis were presented in the February 5, 2015 SIWP.

Current Investigation Status

Four test pits were excavated in the Punch Shed Addition location in October 2014. Based on the results of soil sampling and analysis, an SIWP was prepared for WDNR review. The initial SIWP was implemented in March 2015 including seven soil borings and collection of groundwater samples from temporary wells when water was present in the borings.

Soil samples were continuously logged for lithologic conditions and field screened at two-foot depth intervals using a photoionization detector (PID). Soil and groundwater samples were analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The locations of the seven borings and prior test pits are depicted on Figure 3, including soil industrial residual contaminant levels (I-RCLs) and groundwater preventive action limits (PALs) and enforcement standards (ESs). Tables summarizing the soil and groundwater laboratory results are attached. Copies of the laboratory reports from the soil boring investigation are attached.

The following is a summary of the soil and groundwater data to date:

- Multiple PAH compounds are present in soil above the I-RCLs and in groundwater above the PALs and ESs. The PAHs have been adequately delineated in the northwest, north and northeast directions. Additional delineation is recommended in the southwest, south and southeast directions.
- As discussed in the initial SIWP, RCRA metals have been adequately delineated.
- The recent investigation documents that VOCs have also been adequately delineated, except naphthalene, which is continuing to be investigated as a PAH. No additional VOC sampling is recommended.

Soil Contaminant Investigation

- As noted above, delineation has been completed except for PAHs. Four additional borings are planned to complete the delineation to the southwest, south and southeast. Figure 3 depicts the locations of four proposed additional soil and groundwater sampling locations to attempt to complete the PAH delineation.

As with the prior seven borings, the four proposed push-probe borings will be drilled to a depth of 12 feet bgs. Soil samples will be collected continuously for lithologic description and field screened at two-foot intervals with a PID. Soil samples exhibiting the highest PID reading or at the water table will be collected and submitted to a state certified laboratory for analysis. Soil samples will be analyzed for PAHs using EPA Method 8270 SIM. Quality assurance will include one duplicate soil sample.

Groundwater Contaminant Investigation

The groundwater contaminant investigation will occur concurrently with the soil contaminant investigation. Upon completion of the push-probe soil sampling, a one-inch diameter, schedule 40 PVC temporary well will be installed in each boring with the screen transecting the vadose, capillary and saturated zones. If sufficient water accumulates within the temporary wells, groundwater samples will be collected from each push-probe sampling point and preserved for analysis by a state certified laboratory. Samples will be analyzed for PAHs using EPA Method 8270. All proper quality assurance/quality control (QA/QC) procedures will be followed as per NR 716.13, including collection of trip blanks and duplicate samples, as appropriate.

Schedule

If the four supplemental push probe borings are not sufficient to delineate the extent of contamination, ET will advance additional push probes and collect additional samples for laboratory analysis as documented above. When investigation activities are complete, ET will submit a site investigation report to the WDNR. It is anticipated that work will begin within 60 days and a Site Investigation Report will be submitted within 150 days of the date of this work plan. However, if the objectives of source identification or delineation are not achieved within the timeframe, the WDNR will be provided with an update of the data and planned additional investigation.

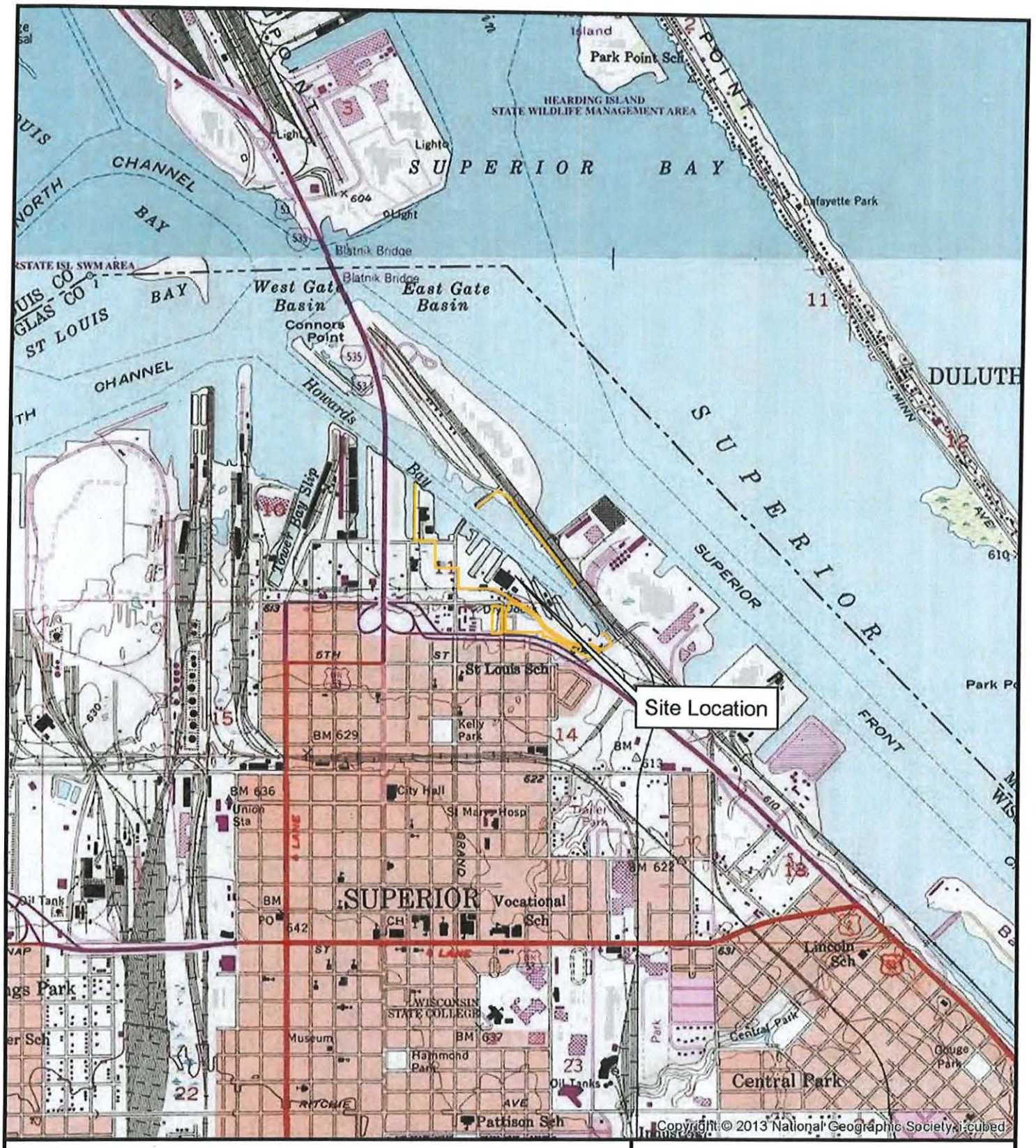
If you have any questions in the interim, please contact me at (218) 722-6013 or by email at jmccarthy@etsmn.com.

Sincerely,

Environmental Troubleshooters, Inc.

John McCarthy, CHMM
Project Manager

Cc: RJS Construction Group, 1 Clough Ave., Superior, WI 54880, Attn: Mr. Todd Koneczny



Legend

Approximate Property Line

2,000 1,000 0 2,000 4,000 Feet

SCALE: 1/24000

1 inch = 2,000 feet

Source: USGS Duluth & Superior 7 1/2" Quadrangle Map

N

FIGURE 1

Site Location

RJS Fraser Shipyard
Superior, Wisconsin

PROJECT #: 14-1004	
DATE: 11/20/2014	**CREATED BY:** CGIS
FILE NAME:	//GIS/2014 Projects/14-1004 /Projects/Figure1

Legend

Approximate Property Line

Railroads

500 250 0 500 1,000 Feet

SCALE: 1/6000

1 inch = 500 feet

N

FIGURE 2

Property Site Map

RJS Fraser Shipyard
Superior, Wisconsin

PROJECT #: 14-1004	
DATE: 11/20/2014	CGIS
FILE NAME: //GIS/2014 Projects/14-1004 /Projects/Figure2	

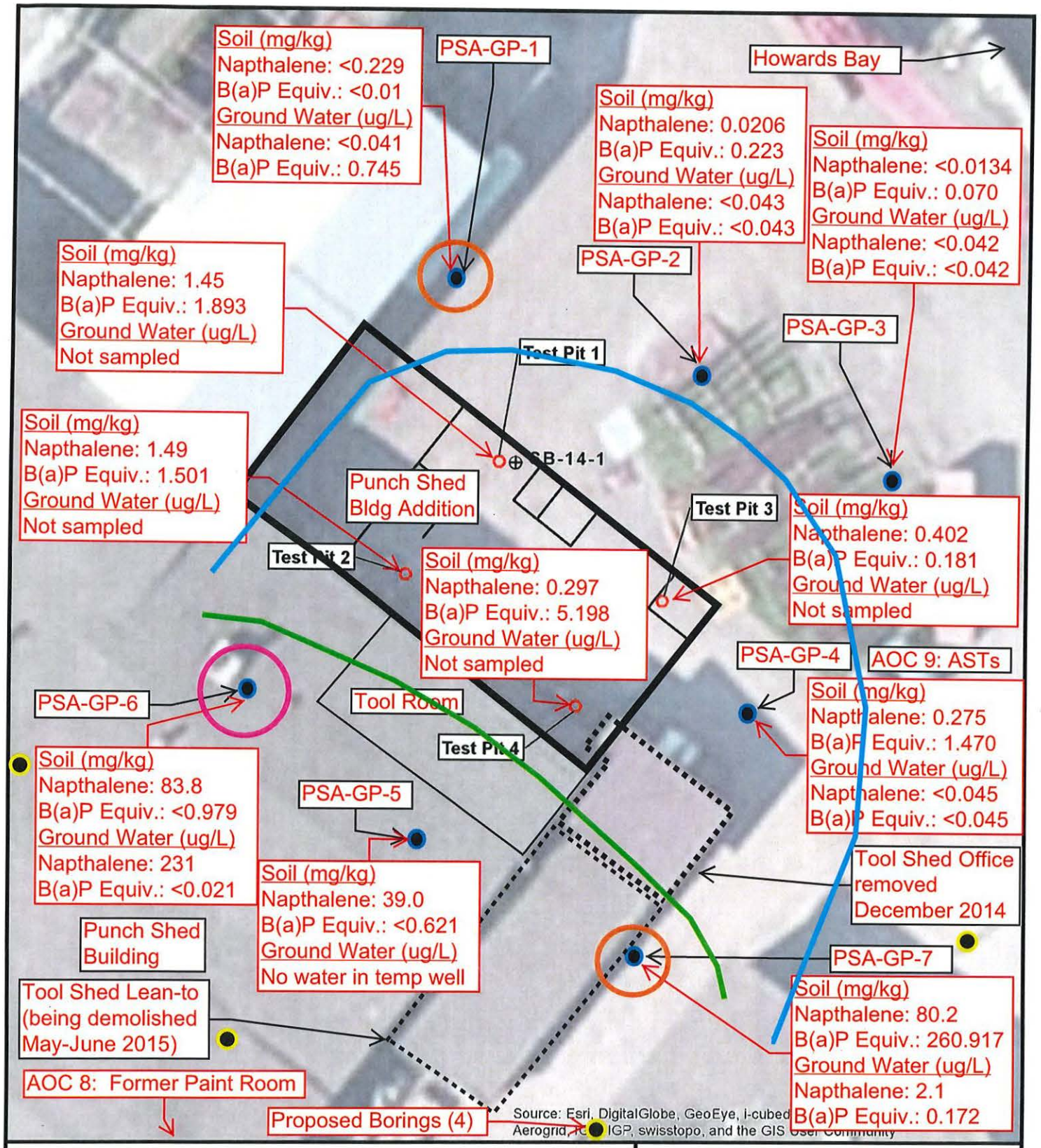


FIGURE 3
New Construction Site Map

RJS Fraser Shipyard
Superior, Wisconsin

PROJECT #: 14-1004	
DATE: 11/21/2014	CREATED BY: CGIS
FILE NAME:	//GIS/2014 Projects/14-1004 /Projects/Figure3

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary

All results in mg/kg (ppm)

		Test Pits				RI Soil Borings		
	Boring / Test Pit	TP-1	TP-2	TP-3	TP-4	GP-1	GP-2	GP-3
	Sample ID	TP1 0-2'	TP2 2-4'	TP3 0-2'	TP4 0-2'	GP1 2-4'	GP2 2-4'	GP3 2-4'
	Sample Depth (ft)	0-2	2-4	0-2	0-2	2-4	2-4	2-4
	Total Depth	8	6	6	5			
	Refusal?	N	N	N	N	N	N	N
	Date	10/27/14	10/27/14	10/27/14	10/27/14	3/24/15	3/24/15	3/24/15
	Ind. - RCL							
Gasoline Range Organics	NE	**837**	**572**	**72.1**	**156**	--	--	--
RCRA Metals (total)								
Arsenic via 6010	8	**7.7**	**1.2**	**7.7**	**3.9**	--	--	--
Arsenic via 6020	8	**8.5**	**2.6**	**10.6**	**5.1**	--	--	--
Barium	220000	**87.3**	**18.4**	**49.9**	**109**	--	--	--
Cadmium	980	**0.58**	**0.13**	**0.36**	**1.4**	--	--	--
Chromium	1800000	**12**	**5.5**	**10.1**	**42.4**	--	--	--
Lead	800	**296**	**41.5**	**118**	**212**	--	--	--
Mercury	3.13	**0.061**	**0.022**	**0.036**	**0.11**	--	--	--
Selenium	5800	**2.4**	**0.53**	**2.0**	**3.5**	--	--	--
Silver	5800	**0.065**	<0.045	<0.055	**24.5**	--	--	--
VOCs								
Acetone	670000	<0.594	<1.120	<0.604	<0.575	<1.150	<1.250	<1.350
Allyl Chloride	3.2	<0.0078	<0.147	<0.0079	<0.0075	<0.229	<0.250	<0.269
Benzene	5.1	**0.0525**	<0.0224	**0.0605**	<0.0115	<0.0229	<0.025	<0.0269
Bromobenzene	1800	<0.0103	<0.0194	<0.0105	<0.010	<0.0573	<0.0624	<0.0673
Bromochloromethane	630	<0.0081	<0.0152	<0.0082	<0.0078	<0.229	<0.250	<0.269
Bromodichloromethane	1.3	<0.0106	<0.0199	<0.0107	<0.0102	<0.0573	<0.0624	<0.0673
Bromoform	290	<0.119	<0.224	<0.121	<0.115	<0.229	<0.250	<0.269
Bromomethane	30	<0.297	<0.560	<0.302	<0.288	<0.573	<0.624	<0.673
2-Butanone (MEK)	190000	<0.148	<0.280	<0.151	<0.144	<0.286	<0.312	<0.336
n-Butylbenzene	58000	**0.426**	**0.795**	<0.0073	<0.0070	<0.0573	<0.0624	<0.0673
sec-Butylbenzene	120000	**0.298**	**0.261**	**0.0285**	<0.0068	<0.0573	<0.0624	<0.0673
tert-Butylbenzene	120000	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
Carbon Tetrachloride	2.9	**0.0753**	<0.0181	<0.0098	<0.0093	<0.229	<0.250	<0.269
Chlorobenzene	1300	<0.0091	<0.0172	<0.0093	<0.0088	<0.0573	<0.0624	<0.0673
Chloroethane	460	**3.140**	<0.0282	**0.753**	<0.0145	<0.573	<0.624	<0.673
Chloroform	1.4	<0.0090	<0.0171	<0.0092	<0.0088	<0.0573	<0.0624	<0.0673
Chloromethane (methyl chloride)	460	<0.0108	<0.0204	<0.0110	<0.0105	<0.229	<0.250	<0.269
2-Chlorotoluene	23000	**0.423**	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
4-Chlorotoluene	23000	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
1,2-Dibromo-3-chloropropane	0.06	<0.0315	<0.0593	<0.0320	<0.0305	<0.573	<0.624	<0.673
Dibromochloromethane	3.2	<0.0128	<0.0242	<0.0130	<0.0124	<0.0573	<0.0624	<0.0673
1,2-Dibromoethane (EDB)	0.16	<0.0073	<0.0138	<0.0074	<0.0071	<0.0573	<0.0624	<0.0673
Dibromomethane	98	<0.0166	<0.0314	<0.0169	<0.0161	<0.0573	<0.0624	<0.0673
1,2-Dichlorobenzene	9300	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
1,3-Dichlorobenzene	NE	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
1,4-Dichlorobenzene	11	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
Dichlorodifluoromethane	370	<0.0274	<0.0517	<0.0279	<0.0266	<0.229	<0.250	<0.269

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary

All results in mg/kg (ppm)		Test Pits				RI Soil Borings		
	Boring / Test Pit	TP-1	TP-2	TP-3	TP-4	GP-1	GP-2	GP-3
	Sample ID	TP1 0-2'	TP2 2-4'	TP3 0-2'	TP4 0-2'	GP1 2-4'	GP2 2-4'	GP3 2-4'
	Sample Depth (ft)	0-2	2-4	0-2	0-2	2-4	2-4	2-4
	Total Depth	8	6	6	5			
	Refusal?	N	N	N	N	N	N	N
	Date	10/27/14	10/27/14	10/27/14	10/27/14	3/24/15	3/24/15	3/24/15
1,1-Dichloroethane (DCA)	16	**2.660**	**0.0766**	**0.0885**	**0.0702**	<0.0573	<0.0624	<0.0673
1,2-Dichloroethane	2	<0.0140	<0.264	<0.0142	<0.0136	<0.0573	<0.0624	<0.0673
1,1-Dichloroethene	1000	0.0516	<0.0224	<0.0121	<0.0115	<0.229	<0.250	<0.269
cis-1,2-Dichloroethene (DCE)	2300	<0.0121	<0.0228	<0.0123	**0.137**	<0.0573	<0.0624	<0.0673
trans-1,2-Dichloroethene	23000	<0.0118	<0.0222	<0.0120	**0.0402**	<0.229	<0.250	<0.269
Dichlorofluoromethane	NE	<0.297	<0.560	<0.302	<0.288	<0.573	<0.624	<0.673
1,2-Dichloropropane	23000	<0.0095	<0.0180	<0.0097	<0.0092	<0.0573	<0.0624	<0.0673
1,3-Dichloropropane	2500	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
2,2-Dichloropropane	NE	<0.0079	<0.0150	<0.0081	<0.0077	<0.229	<0.250	<0.269
1,1-Dichloropropene	NE	<0.0097	<0.0183	<0.0099	<0.0094	<0.0573	<0.0624	<0.0673
cis-1,3-Dichloropropene	8.2	<0.0075	<0.0141	<0.0076	<0.0072	<0.0573	<0.0624	<0.0673
trans-1,3-Dichloropropene	8.2	<0.0084	<0.0158	<0.0085	<0.0081	<0.0573	<0.0624	<0.0673
Diethyl Ether (Ethyl Ether)	230000	<0.0126	<0.0237	<0.0128	<0.0122	<0.229	<0.250	<0.269
Ethylbenzene	25	**0.163**	**0.0901**	**0.130**	**0.0407**	<0.0573	<0.0624	<0.0673
Hexachloro-1,3-butadiene	30	<0.148	<0.280	<0.151	<0.144	<0.286	<0.312	<0.336
Isopropylbenzene (cumene)	9900	0.0933	0.0845	0.0560	<0.0288	<0.0573	<0.0624	<0.0673
p-Isopropyltoluene	NE	**0.976**	**1.57**	**0.0373**	**0.126**	<0.0573	<0.0624	<0.0673
Methylene Chloride	1000	<0.0119	<0.224	<0.121	<0.115	<0.229	<0.250	<0.269
4-Methyl-2-pentanone (MIBK)	56000	**0.318**	<0.280	<0.151	<0.144	<0.286	<0.312	<0.336
Methyl-tert-butyl-ether (MTBE)	210	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
Naphthalene	17	**2.27**	**4.39**	**0.473**	**0.641**	<0.229	<0.250	<0.269
n-Propylbenzene	22000	**0.181**	**0.242**	**0.0753**	<0.0070	<0.0573	<0.0624	<0.0673
Styrene	35000	<0.0089	<0.0167	<0.0090	<0.0086	<0.0573	<0.0624	<0.0673
1,1,1,2-Tetrachloroethane	8.8	<0.0297	<0.0560	<0.0302	<0.0288	<0.0573	<0.0624	<0.0673
1,1,2,2-Tetrachloroethane	2.7	<0.0081	<0.0154	<0.0083	<0.0079	<0.0573	<0.0624	<0.0673
Tetrachloroethene (PCE)	100	<0.0214	<0.0404	<0.0218	**0.331**	<0.0573	<0.0624	<0.0673
Tetrahydrofuran (THF)	NE	<0.0759	<0.143	<0.0771	<0.0735	<2.290	<2.500	<2.690
Toluene	47000	**0.27**	**0.0235**	**0.306**	**0.0962**	<0.0573	<0.0624	<0.0673
1,2,3-Trichlorobenzene	660	<0.0141	<0.0266	<0.0144	<0.0137	<0.0573	<0.0624	<0.0673
1,2,4-Trichlorobenzene	110	<0.0108	<0.0204	<0.0110	<0.0105	<0.0573	<0.0624	<0.0673
1,1,1-Trichloroethane (TCA)	36000	**0.472**	**0.535**	<0.0302	**0.0757**	<0.0573	<0.0624	<0.0673
1,1,2-Trichloroethane (TCA)	5	<0.0100	<0.0189	<0.0102	<0.0097	<0.0573	<0.0624	<0.0673
Trichloroethene (TCE)	6	<0.0074	<0.0139	<0.0075	**0.421**	<0.0573	<0.0624	<0.0673
Trichlorofluoromethane	3100	<0.0106	<0.0199	<0.0107	<0.0102	<0.229	<0.250	<0.269
1,2,3-Trichloropropane*	0.11	**0.369**	<0.0149	<0.0080	<0.0076	<0.229	<0.250	<0.269
1,1,2-Trichlorofluoroethane	NE	<0.0248	<0.0468	<0.0252	<0.0240	<0.229	<0.250	<0.269
1,2,4-Trimethylbenzene	240	**3.25**	**3.67**	**0.305**	**0.138**	<0.0573	<0.0624	<0.0673
1,3,5-Trimethylbenzene	12000	**3.88**	**1.53**	**0.124**	**0.096**	<0.0573	<0.0624	<0.0673
Vinyl Chloride	1.7	<0.0088	<0.0166	<0.0090	<0.0085	<0.0229	<0.0250	<0.0269
Xylene (total)	2500	**0.937**	**0.692**	**0.814**	**0.209**	<0.172	<0.187	<0.202

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary

All results in mg/kg (ppm)

		Test Pits				RI Soil Borings		
	Boring / Test Pit	TP-1	TP-2	TP-3	TP-4	GP-1	GP-2	GP-3
	Sample ID	TP1 0-2'	TP2 2-4'	TP3 0-2'	TP4 0-2'	GP1 2-4'	GP2 2-4'	GP3 2-4'
	Sample Depth (ft)	0-2	2-4	0-2	0-2	2-4	2-4	2-4
	Total Depth	8	6	6	5			
	Refusal?	N	N	N	N	N	N	N
	Date	10/27/14	10/27/14	10/27/14	10/27/14	3/24/15	3/24/15	3/24/15
PAHs								
Acenaphthene	45000	**0.589**	**0.342**	<0.0597	**0.748**	<0.0118	**0.0154**	<0.0134
Acenaphthylene		**0.566**	**0.210**	**0.105**	<0.282	<0.0118	**0.0384**	<0.0134
Anthracene	230000	**0.409**	**0.468**	**0.061**	**1.490**	<0.0118	**0.0509**	**0.0180**
Benzo(a)anthracene	2.9	**1.000**	**1.090**	**0.108**	**3.350**	<0.0118	**0.1310**	**0.0470**
Benzo(a)pyrene [B(a)P]	0.29	**1.150**	**1.010**	**0.126**	**3.530**	<0.0118	**0.1750**	**0.0541**
Benzo(b)fluoranthene	2.9	**2.000**	**1.250**	**0.280**	**4.400**	<0.0118	**0.2280**	**0.0705**
Benzo(g,h,i)perylene		**1.170**	**0.723**	**0.176**	**2.480**	<0.0118	**0.1280**	**0.0402**
Benzo(k)fluoranthene	29	**0.935**	**0.636**	**0.128**	**2.200**	<0.0118	**0.0744**	**0.0282**
Chrysene	290	**1.340**	**1.230**	**0.189**	**3.950**	<0.0118	**0.1770**	**0.0616**
Dibenzo(a,h)anthracene	0.29	**0.333**	**0.193**	<0.0597	**0.666**	<0.0118	<0.0125	<0.0134
Fluoranthene	30000	**2.190**	**2.400**	**0.207**	**7.550**	<0.0118	**0.3280**	**0.1220**
Fluorene	30000	**1.200**	**0.389**	<0.0597	**0.968**	<0.0118	**0.0180**	<0.0134
Indeno(1,2,3-cd)pyrene	2.9	**0.990**	**0.566**	**0.146**	**2.010**	<0.0118	**0.1080**	**0.0333**
Naphthalene	17	**1.450**	**1.490**	**0.402**	**0.297**	<0.0118	**0.0206**	<0.0134
Phenanthrene		**1.450**	**2.390**	**0.254**	**5.620**	<0.0118	**0.2480**	**0.0959**
Pyrene	23000	**2.020**	**2.410**	**0.213**	**6.180**	<0.0118	**0.3750**	**0.1510**
B(a)P Equivalents	0.29	**1.893**	**1.501**	**0.181**	**5.198**		**0.223**	**0.070**

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary (cont)

All results in mg/kg (ppm)

		RI Soil Borings					
	Boring / Test Pit	GP-4	GP-5	GP-50	GP-6	GP-7	
	Sample ID	GP4 2-4'	GP5 4-8'	GP-5	GP6 4-8'	GP7 2-4'	
	Sample Depth (ft)	2-4	4-8	Duplicate	4-8	2-4	
	Total Depth						
	Refusal?	N	N		N	N	
	Date	3/24/15	3/25/15	3/25/15	3/24/15	3/24/15	
	Ind. - RCL						
Gasoline Range Organics	NE	--	--	--	--	--	
RCRA Metals (total)							
Arsenic via 6010	8	--	--	--	--	--	
Arsenic via 6020	8	--	--	--	--	--	
Barium	220000	--	--	--	--	--	
Cadmium	980	--	--	--	--	--	
Chromium	1800000	--	--	--	--	--	
Lead	800	--	--	--	--	--	
Mercury	3.13	--	--	--	--	--	
Selenium	5800	--	--	--	--	--	
Silver	5800	--	--	--	--	--	
VOCs							RPD
Acetone	670000	<1.270	<6.210	<7.090	<1.900	<1.160	
Allyl Chloride	3.2	<0.254	<1.240	<1.420	<0.379	<0.232	
Benzene	5.1	<0.0254	<0.124	<0.124	<0.0379	<0.0232	
Bromobenzene	1800	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Bromochloromethane	630	<0.254	<1.240	<1.420	<0.379	<0.232	
Bromodichloromethane	1.3	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Bromoform	290	<0.254	<1.240	<1.420	<0.379	<0.232	
Bromomethane	30	<0.636	<3.100	<3.540	<0.949	<0.580	
2-Butanone (MEK)	190000	<0.318	<1.550	<1.770	<0.474	<0.290	
n-Butylbenzene	58000	<0.0636	<0.310	**1.330**	**4.980**	**0.107**	*
sec-Butylbenzene	120000	<0.0636	<0.310	**0.614**	**0.320**	<0.0580	*
tert-Butylbenzene	120000	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Carbon Tetrachloride	2.9	<0.254	<1.240	<1.420	<0.379	<0.232	
Chlorobenzene	1300	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Chloroethane	460	<0.636	<3.100	<3.540	<0.949	<0.580	
Chloroform	1.4	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Chloromethane (methyl chloride)	460	<0.254	<1.240	<1.420	<0.379	<0.232	
2-Chlorotoluene	23000	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
4-Chlorotoluene	23000	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,2-Dibromo-3-chloropropane	0.06	<0.636	<3.100	<3.540	<0.949	<0.580	
Dibromochloromethane	3.2	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,2-Dibromoethane (EDB)	0.16	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Dibromomethane	98	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,2-Dichlorobenzene	9300	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,3-Dichlorobenzene	NE	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,4-Dichlorobenzene	11	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Dichlorodifluoromethane	370	<0.254	<1.240	<1.420	<0.379	<0.232	

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary (cont)

All results in mg/kg (ppm)

		RI Soil Borings					
	Boring / Test Pit	GP-4	GP-5	GP-50	GP-6	GP-7	
	Sample ID	GP4 2-4'	GP5 4-8'	GP-5	GP6 4-8'	GP7 2-4'	
	Sample Depth (ft)	2-4	4-8	Duplicate	4-8	2-4	
	Total Depth						
	Refusal?	N	N		N	N	
	Date	3/24/15	3/25/15	3/25/15	3/24/15	3/24/15	
1,1-Dichloroethane (DCA)	16	**0.142**	<0.310	<0.354	<0.0949	<0.0580	
1,2-Dichloroethane	2	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,1-Dichloroethene	1000	<0.254	<1.240	<1.420	<0.379	<0.232	
cis-1,2-Dichloroethene (DCE)	2300	<0.0636	<0.310	<0.354	<0.0949	<0.580	
trans-1,2-Dichloroethene	23000	<0.254	<1.240	<1.420	<0.379	<0.232	
Dichlorofluoromethane	NE	<0.636	<3.100	<3.540	<0.949	<0.580	
1,2-Dichloropropane	23000	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,3-Dichloropropane	2500	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
2,2-Dichloropropane	NE	<0.254	<1.240	<1.420	<0.379	<0.232	
1,1-Dichloropropene	NE	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
cis-1,3-Dichloropropene	8.2	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
trans-1,3-Dichloropropene	8.2	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Diethyl Ether (Ethyl Ether)	230000	<0.254	<1.240	<1.420	<0.379	<0.232	
Ethylbenzene	25	<0.0636	<0.310	**0.406**	**0.301**	**0.088**	*
Hexachloro-1,3-butadiene	30	<0.318	<1.550	<1.770	<0.474	<0.290	
Isopropylbenzene (cumene)	9900	<0.0636	<0.310	<0.354	**0.268**	<0.0580	
p-Isopropyltoluene	NE	<0.0636	**1.88**	**3.180**	**1.680**	<0.0580	-51%
Methylene Chloride	1000	<0.254	<1.240	<1.420	<0.379	<0.232	
4-Methyl-2-pentanone (MIBK)	56000	<0.318	<1.550	<1.770	<0.474	<0.290	
Methyl-tert-butyl-ether (MTBE)	210	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Naphthalene	17	<0.254	**18.80**	**33.700**	**67.500**	**10.300**	-57%
n-Propylbenzene	22000	<0.0636	<0.310	**0.527**	**0.553**	<0.0580	
Styrene	35000	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,1,1,2-Tetrachloroethane	8.8	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,1,2,2-Tetrachloroethane	2.7	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Tetrachloroethene (PCE)	100	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Tetrahydrofuran (THF)	NE	<2.540	<12.400	<14.200	<3.790	<2.320	
Toluene	47000	<0.0636	<0.310	<0.354	<0.0949	**0.224**	
1,2,3-Trichlorobenzene	660	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,2,4-Trichlorobenzene	110	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
1,1,1-Trichloroethane (TCA)	36000	<0.0636	<0.310	<0.354	<0.0949	**0.460**	
1,1,2-Trichloroethane (TCA)	5	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Trichloroethene (TCE)	6	<0.0636	<0.310	<0.354	<0.0949	<0.0580	
Trichlorofluoromethane	3100	<0.254	<1.240	<1.420	<0.379	<0.232	
1,2,3-Trichloropropane*	0.11	<0.254	<1.240	<1.420	<0.379	<0.232	
1,1,2-Trichlorofluoroethane	NE	<0.254	<1.240	<1.420	<0.379	<0.232	
1,2,4-Trimethylbenzene	240	**0.142**	**6.390**	**11.200**	**13.100**	**0.200**	-55%
1,3,5-Trimethylbenzene	12000	**0.103**	**3.000**	**3.720**	**4.720**	**0.0712**	-21%
Vinyl Chloride	1.7	<0.0254	<0.124	<0.142	<0.0379	<0.0232	
Xylene (total)	2500	<0.191	<0.931	**3.280**	**4.570**	**0.749**	*

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Fraser Shipyard Punch Shed Addition
Soil Analytical Summary (cont)

All results in mg/kg (ppm)

		RI Soil Borings					
	Boring / Test Pit	GP-4	GP-5	GP-50	GP-6	GP-7	
	Sample ID	GP4 2-4'	GP5 4-8'	GP-5	GP6 4-8'	GP7 2-4'	
	Sample Depth (ft)	2-4	4-8	Duplicate	4-8	2-4	
	Total Depth						
	Refusal?	N	N		N	N	
	Date	3/24/15	3/25/15	3/25/15	3/24/15	3/24/15	
PAHs							
Acenaphthene	45000	**0.246**	**3.080**	**2.240**	**6.970**	**121.000**	32%
Acenaphthylene		**0.163**	<0.621	<0.673	<0.979	**1.070**	
Anthracene	230000	**0.406**	<0.621	<0.673	<0.979	**182.000**	
Benzo(a)anthracene	2.9	**0.980**	<0.621	<0.673	<0.979	**215.000**	
Benzo(a)pyrene [B(a)P]	0.29	**1.150**	<0.621	<0.673	<0.979	**204.000**	
Benzo(b)fluoranthene	2.9	**1.500**	<0.621	<0.673	<0.979	**237.000**	
Benzo(g,h,i)perylene		**0.751**	<0.621	<0.673	<0.979	**113.000**	
Benzo(k)fluoranthene	29	**0.601**	<0.621	<0.673	<0.979	**101.000**	
Chrysene	290	**1.250**	<0.621	<0.673	<0.979	**207.000**	
Dibenzo(a,h)anthracene	0.29	<0.0132	<0.621	<0.673	<0.979	<0.0573	
Fluoranthene	30000	**2.800**	<0.621	<0.673	<0.979	**645.000**	
Fluorene	30000	**0.268**	**2.190**	**1.690**	**3.640**	**112.000**	26%
Indeno(1,2,3-cd)pyrene	2.9	**0.648**	<0.621	<0.673	<0.979	**105.000**	
Naphthalene	17	**0.275**	**39.000**	**20.000**	**83.800**	**80.200**	64%
Phenanthrene		**2.660**	**3.560**	**2.290**	**2.470**	**838.000**	43%
Pyrene	23000	**3.870**	**1.730**	**1.190**	**2.800**	**684.000**	37%
B(a)P Equivalents	0.29	**1.470**				**260.917**	

NE - Not Established -- Not Analyzed
Bold Text - Reported above detection limit.
Bold Text and Box - Exceeds regulatory limit.

Table A.1. Groundwater Analytical Table
Fraser Shipyard - Punch Shed Addition, Superior WI

All results in ug/L

	Sample ID		GP-1	GP-2	GP-3	GP-4	GP-6	GP-7
	Sample Depth (ft)/DTW							
	Generic ES/PAL***							
	ES	PAL						
VOCs								
Acetone	9000	1800	<20.0	<20.0	<20.0	**33.5**	**60.5**	<20.0
Allyl Chloride	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	5	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromodichloromethane	0.6	0.06	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	4.4	0.44	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	10	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	800	<5.0	<5.0	<5.0	<5.0	**14.5**	<5.0
n-Butylbenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	**2.7**	<1.0
sec-Butylbenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0
tert-Butylbenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	5	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	400	80	<1.0	**3.4**	<1.0	<1.0	<1.0	<1.0
Chloroform	6	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane (methyl chloride)	30	3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	0.2	0.02	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	60	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	0.05	0.005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dichlorobenzene	600	60	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	600	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	1000	200	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1-Dichloroethane (DCA)	850	85	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	0.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (DCE)	70	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3-Dichloropropane	0.4	0.04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1-Dichloropropene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,3-Dichloropropene	NP	NP	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Diethyl Ether (Ethyl Ether)	1000	100	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	140	<1.0	<1.0	<1.0	<1.0	**4.6**	<1.0
Hexachloro-1,3-butadiene	NP	NP	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene (cumene)	NP	NP	<1.0	<1.0	<1.0	<1.0	**2.1**	<1.0
p-Isopropyltoluene	NP	NP	**4.8**	<1.0	<1.0	<1.0	**12.1**	<1.0
Methylene Chloride	5	0.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
4-Methyl-2-pentanone (MIBK)	500	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl-ether (MTBE)	60	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	100	10	<4.0	<4.0	<4.0	<4.0	***228***	<4.0

n-Propylbenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	**2.8**	<1.0
Styrene	100	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	70	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	0.2	0.02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene (PCE)	5	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran (THF)	50	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	800	160	<1.0	<1.0	<1.0	<1.0	**1.8**	<1.0
1,2,3-Trichlorobenzene	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane (TCA)	200	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (TCA)	5	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	5	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Trichlorofluoromethane	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane*	60	12	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorofluoroethane	NP	NP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	480	96	<1.0	<1.0	<1.0	<1.0	**96.4**	<1.0
1,3,5-Trimethylbenzene			<1.0	<1.0	<1.0	<1.0	**32.6**	<1.0
Vinyl Chloride	0.2	0.02	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (total)	2000	400	<3.0	<3.0	<3.0	<3.0	**49.7**	<3.0
PAHs								
Acenaphthene	NP	NP	**1.2**	**0.19**	**0.15**	<0.045	**4.4**	**3.0**
Acenaphthylene	NP	NP	**0.17**	<0.043	<0.042	<0.045	<0.21	<0.043
Anthracene	3000	600	**0.18**	<0.043	<0.042	<0.045	<0.21	**1.1**
Benzo(a)anthracene	NP	NP	**0.43**	<0.043	<0.042	<0.045	<0.21	**0.15**
Benzo(a)pyrene	0.2	0.02	***0.57***	<0.043	<0.042	<0.045	<0.21	**0.14**
Benzo(b)fluoranthene	0.2	0.02	***0.84***	<0.043	<0.042	<0.045	<0.21	**0.16**
Benzo(g,h,i)perylene	NP	NP	**0.52**	<0.043	<0.042	<0.045	<0.21	<0.043
Benzo(k)fluoranthene	NP	NP	**0.27**	<0.043	<0.042	<0.045	<0.21	**0.068**
Chrysene	0.2	0.02	***0.63***	<0.043	<0.042	<0.045	<0.21	**0.16**
Dibenzo(a,h)anthracene	NP	NP	<0.041	<0.043	<0.042	<0.045	<0.21	<0.043
Fluoranthene	400	80	**1.4**	**0.078**	<0.042	<0.045	<0.21	**0.9**
Fluorene	400	80	**0.35**	**0.17**	<0.042	<0.045	**2.3**	**1.6**
Indeno(1,2,3-cd)pyrene	NP	NP	**0.45**	<0.043	<0.042	<0.045	<0.21	<0.043
Naphthalene	100	10	<0.041	<0.043	<0.042	<0.045	***231***	**2.1**
Phenanthrene	NP	NP	**0.89**	**0.11**	**0.083**	<0.045	**0.92**	**4.2**
Pyrene	250	50	**1.2**	**0.07**	<0.042	<0.045	<0.21	**0.7**
BaP Equivalents	0.2	0.02	***0.745***	<				**0.172**

29.5	Exceeds WDNR Preventive Action Limit & Enforcement Standard
0.081	Exceeds WDNR PAL, but not ES
0.35	Detected above reporting limit
--	Not analyzed
NP	Not published

Pace Analytical®
www.pacelabs.com

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April 12, 2015

Mr. John McCarthy
Environmental Troubleshooters
3825 Grand Avenue
Duluth, MN 55807

RE: Project: 14-1004 FSY
Pace Project No.: 10300801

Dear Mr. McCarthy:
Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lori Castille
lori.castille@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 14-1004 FSY
Pace Project No.: 10300801

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 14-1004 FSY
Pace Project No.: 10300801

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10300801001	GP1 2-4	Solid	03/24/15 10:10	03/26/15 18:07
10300801002	GP2 2-4	Solid	03/24/15 11:00	03/26/15 18:07
10300801003	GP3 2-4	Solid	03/24/15 11:45	03/26/15 18:07
10300801004	GP4 2-4	Solid	03/24/15 13:20	03/26/15 18:07
10300801005	GP5 4-8	Solid	03/25/15 10:30	03/26/15 18:07
10300801006	GP6 4-8	Solid	03/24/15 16:00	03/26/15 18:07
10300801007	GP7 2-4	Solid	03/24/15 14:00	03/26/15 18:07
10300801008	GP50 4-8	Solid	03/25/15 10:35	03/26/15 18:07
10300801009	Trip Blank	Solid	03/24/15 00:00	03/26/15 18:07
10300802001	GP1W	Water	03/25/15 10:40	03/26/15 18:07
10300802002	GP2W	Water	03/25/15 10:55	03/26/15 18:07
10300802003	GP3W	Water	03/25/15 11:10	03/26/15 18:07
10300802004	GP4W	Water	03/25/15 11:40	03/26/15 18:07
10300802005	GP6W	Water	03/25/15 13:20	03/26/15 18:07
10300802006	GP7W	Water	03/25/15 13:40	03/26/15 18:07
10300802007	Trip Blank	Water	03/25/15 00:00	03/26/15 18:07

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SAMPLE ANALYTE COUNT

Project: 14-1004 FSY
Pace Project No.: 10300801

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10300801001	GP1 2-4	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801002	GP2 2-4	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801003	GP3 2-4	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801004	GP4 2-4	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801005	GP5 4-8	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801006	GP6 4-8	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT, SH2	70
10300801007	GP7 2-4	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	AMT	70
10300801008	GP50 4-8	ASTM D2974	JDL	1
		EPA 8270D by SIM	LT	18
		EPA 8260	SH2	70
10300801009	Trip Blank	EPA 8260	AMT	70
10300802001	GP1W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70
10300802002	GP2W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70
10300802003	GP3W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70
10300802004	GP4W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70
10300802005	GP6W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70
10300802006	GP7W	EPA 8270D by SIM	LT	18
		EPA 8260	AJC	70

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 14-1004 FSY
Pace Project No.: 10300801

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10300802007	**Trip Blank**	EPA 8260	AJC	70

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP1 2-4 **Lab ID: 10300801001** Collected: 03/24/15 10:10 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**15.5**	%	0.10	1		03/27/15 11:31		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	83-32-9	
Acenaphthylene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	208-96-8	
Anthracene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	207-08-9	
Chrysene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	53-70-3	
Fluoranthene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	206-44-0	
Fluorene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	193-39-5	
Naphthalene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	91-20-3	
Phenanthrene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	85-01-8	
Pyrene	ND	ug/kg	11.8	1	03/27/15 11:21	03/30/15 15:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	55-125	1	03/27/15 11:21	03/30/15 15:45	321-60-8	
p-Terphenyl-d14 (S)	69	%.	30-150	1	03/27/15 11:21	03/30/15 15:45	1718-51-0	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1150	1	04/01/15 09:05	04/01/15 16:27	67-64-1	
Allyl chloride	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	107-05-1	
Benzene	ND	ug/kg	22.9	1	04/01/15 09:05	04/01/15 16:27	71-43-2	
Bromobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	108-86-1	
Bromochloromethane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	74-97-5	
Bromodichloromethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	75-27-4	
Bromoform	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	75-25-2	
Bromomethane	ND	ug/kg	573	1	04/01/15 09:05	04/01/15 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	286	1	04/01/15 09:05	04/01/15 16:27	78-93-3	
n-Butylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	56-23-5	
Chlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	108-90-7	
Chloroethane	ND	ug/kg	573	1	04/01/15 09:05	04/01/15 16:27	75-00-3	
Chloroform	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	67-66-3	
Chloromethane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	573	1	04/01/15 09:05	04/01/15 16:27	96-12-8	
Dibromochloromethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	106-93-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP1 2-4 **Lab ID: 10300801001** Collected: 03/24/15 10:10 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromomethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	156-60-5	
Dichlorofluoromethane	ND	ug/kg	573	1	04/01/15 09:05	04/01/15 16:27	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	60-29-7	
Ethylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	286	1	04/01/15 09:05	04/01/15 16:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	99-87-6	
Methylene Chloride	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	286	1	04/01/15 09:05	04/01/15 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	1634-04-4	
Naphthalene	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	91-20-3	
n-Propylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	103-65-1	
Styrene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	79-34-5	
Tetrachloroethene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	127-18-4	
Tetrahydrofuran	ND	ug/kg	2290	1	04/01/15 09:05	04/01/15 16:27	109-99-9	
Toluene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	79-00-5	
Trichloroethene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	229	1	04/01/15 09:05	04/01/15 16:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.3	1	04/01/15 09:05	04/01/15 16:27	108-67-8	
Vinyl chloride	ND	ug/kg	22.9	1	04/01/15 09:05	04/01/15 16:27	75-01-4	
Xylene (Total)	ND	ug/kg	172	1	04/01/15 09:05	04/01/15 16:27	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP1 2-4 **Lab ID: 10300801001** Collected: 03/24/15 10:10 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%.	55-150	1	04/01/15 09:05	04/01/15 16:27	17060-07-0	
Toluene-d8 (S)	100	%.	61-125	1	04/01/15 09:05	04/01/15 16:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	54-131	1	04/01/15 09:05	04/01/15 16:27	460-00-4	

Sample: GP2 2-4 **Lab ID: 10300801002** Collected: 03/24/15 11:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**20.1**	%	0.10	1		03/27/15 12:32		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**15.4**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	83-32-9	
Acenaphthylene	**38.4**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	208-96-8	
Anthracene	**50.9**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	120-12-7	
Benzo(a)anthracene	**131**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	56-55-3	
Benzo(a)pyrene	**175**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	50-32-8	
Benzo(b)fluoranthene	**228**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	205-99-2	
Benzo(g,h,i)perylene	**128**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	191-24-2	
Benzo(k)fluoranthene	**74.4**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	207-08-9	
Chrysene	**177**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	53-70-3	
Fluoranthene	**328**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	206-44-0	
Fluorene	**18.0**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**108**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	193-39-5	
Naphthalene	**20.6**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	91-20-3	
Phenanthrene	**248**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	85-01-8	
Pyrene	**375**	ug/kg	12.5	1	03/27/15 11:21	03/30/15 16:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%.	55-125	1	03/27/15 11:21	03/30/15 16:07	321-60-8	
p-Terphenyl-d14 (S)	72	%.	30-150	1	03/27/15 11:21	03/30/15 16:07	1718-51-0	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1250	1	04/01/15 09:05	04/01/15 16:48	67-64-1	
Allyl chloride	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	107-05-1	
Benzene	ND	ug/kg	25.0	1	04/01/15 09:05	04/01/15 16:48	71-43-2	
Bromobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	108-86-1	
Bromochloromethane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	74-97-5	
Bromodichloromethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	75-27-4	
Bromoform	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	75-25-2	
Bromomethane	ND	ug/kg	624	1	04/01/15 09:05	04/01/15 16:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	312	1	04/01/15 09:05	04/01/15 16:48	78-93-3	
n-Butylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	104-51-8	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP2 2-4 **Lab ID: 10300801002** Collected: 03/24/15 11:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	56-23-5	
Chlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	108-90-7	
Chloroethane	ND	ug/kg	624	1	04/01/15 09:05	04/01/15 16:48	75-00-3	
Chloroform	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	67-66-3	
Chloromethane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	624	1	04/01/15 09:05	04/01/15 16:48	96-12-8	
Dibromochloromethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	106-93-4	
Dibromomethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	156-60-5	
Dichlorofluoromethane	ND	ug/kg	624	1	04/01/15 09:05	04/01/15 16:48	75-43-4	
1,2-Dichloropropane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	60-29-7	
Ethylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	312	1	04/01/15 09:05	04/01/15 16:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	99-87-6	
Methylene Chloride	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	312	1	04/01/15 09:05	04/01/15 16:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	1634-04-4	
Naphthalene	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	91-20-3	
n-Propylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	103-65-1	
Styrene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	79-34-5	
Tetrachloroethene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	127-18-4	
Tetrahydrofuran	ND	ug/kg	2500	1	04/01/15 09:05	04/01/15 16:48	109-99-9	
Toluene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	87-61-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP2 2-4 **Lab ID: 10300801002** Collected: 03/24/15 11:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trichlorobenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	79-00-5	
Trichloroethene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	62.4	1	04/01/15 09:05	04/01/15 16:48	108-67-8	
Vinyl chloride	ND	ug/kg	25.0	1	04/01/15 09:05	04/01/15 16:48	75-01-4	
Xylene (Total)	ND	ug/kg	187	1	04/01/15 09:05	04/01/15 16:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%.	55-150	1	04/01/15 09:05	04/01/15 16:48	17060-07-0	
Toluene-d8 (S)	100	%.	61-125	1	04/01/15 09:05	04/01/15 16:48	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	54-131	1	04/01/15 09:05	04/01/15 16:48	460-00-4	

Sample: GP3 2-4 **Lab ID: 10300801003** Collected: 03/24/15 11:45 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**25.4**	%	0.10	1		03/27/15 12:32		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	83-32-9	
Acenaphthylene	ND	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	208-96-8	
Anthracene	**18.0**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	120-12-7	
Benzo(a)anthracene	**47.0**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	56-55-3	
Benzo(a)pyrene	**54.1**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	50-32-8	
Benzo(b)fluoranthene	**70.5**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	205-99-2	
Benzo(g,h,i)perylene	**40.2**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	191-24-2	
Benzo(k)fluoranthene	**28.2**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	207-08-9	
Chrysene	**61.6**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	53-70-3	
Fluoranthene	**122**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	206-44-0	
Fluorene	ND	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**33.3**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	193-39-5	
Naphthalene	ND	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	91-20-3	
Phenanthrene	**95.9**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	85-01-8	
Pyrene	**151**	ug/kg	13.4	1	03/27/15 11:21	03/30/15 16:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%.	55-125	1	03/27/15 11:21	03/30/15 16:28	321-60-8	
p-Terphenyl-d14 (S)	67	%.	30-150	1	03/27/15 11:21	03/30/15 16:28	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP3 2-4 **Lab ID: 10300801003** Collected: 03/24/15 11:45 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1350	1	04/01/15 09:05	04/01/15 19:38	67-64-1	
Allyl chloride	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	107-05-1	
Benzene	ND	ug/kg	26.9	1	04/01/15 09:05	04/01/15 19:38	71-43-2	
Bromobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	108-86-1	
Bromochloromethane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	74-97-5	
Bromodichloromethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	75-27-4	
Bromoform	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	75-25-2	
Bromomethane	ND	ug/kg	673	1	04/01/15 09:05	04/01/15 19:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	336	1	04/01/15 09:05	04/01/15 19:38	78-93-3	
n-Butylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	56-23-5	
Chlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	108-90-7	
Chloroethane	ND	ug/kg	673	1	04/01/15 09:05	04/01/15 19:38	75-00-3	
Chloroform	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	67-66-3	
Chloromethane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	673	1	04/01/15 09:05	04/01/15 19:38	96-12-8	
Dibromochloromethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	106-93-4	
Dibromomethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	156-60-5	
Dichlorofluoromethane	ND	ug/kg	673	1	04/01/15 09:05	04/01/15 19:38	75-43-4	
1,2-Dichloropropane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	60-29-7	
Ethylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	336	1	04/01/15 09:05	04/01/15 19:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	99-87-6	
Methylene Chloride	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	336	1	04/01/15 09:05	04/01/15 19:38	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP3 2-4 **Lab ID: 10300801003** Collected: 03/24/15 11:45 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	1634-04-4	
Naphthalene	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	91-20-3	
n-Propylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	103-65-1	
Styrene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	79-34-5	
Tetrachloroethene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	127-18-4	
Tetrahydrofuran	ND	ug/kg	2690	1	04/01/15 09:05	04/01/15 19:38	109-99-9	
Toluene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	79-00-5	
Trichloroethene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	269	1	04/01/15 09:05	04/01/15 19:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	67.3	1	04/01/15 09:05	04/01/15 19:38	108-67-8	
Vinyl chloride	ND	ug/kg	26.9	1	04/01/15 09:05	04/01/15 19:38	75-01-4	
Xylene (Total)	ND	ug/kg	202	1	04/01/15 09:05	04/01/15 19:38	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	55-150	1	04/01/15 09:05	04/01/15 19:38	17060-07-0	
Toluene-d8 (S)	101	%.	61-125	1	04/01/15 09:05	04/01/15 19:38	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	54-131	1	04/01/15 09:05	04/01/15 19:38	460-00-4	

Sample: GP4 2-4 **Lab ID: 10300801004** Collected: 03/24/15 13:20 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**24.4**	%	0.10	1		03/27/15 12:32		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**246**	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	83-32-9	
Acenaphthylene	**163**	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	208-96-8	
Anthracene	**406**	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	120-12-7	
Benzo(a)anthracene	**980**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	56-55-3	
Benzo(a)pyrene	**1150**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	50-32-8	
Benzo(b)fluoranthene	**1500**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	205-99-2	
Benzo(g,h,i)perylene	**751**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	191-24-2	
Benzo(k)fluoranthene	**601**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	207-08-9	
Chrysene	**1250**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	53-70-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP4 2-4 **Lab ID: 10300801004** Collected: 03/24/15 13:20 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Fluoranthene	**2800**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	206-44-0	
Fluorene	**268**	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**648**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	193-39-5	
Naphthalene	**275**	ug/kg	13.2	1	03/27/15 11:21	03/30/15 16:50	91-20-3	
Phenanthrene	**2660**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	85-01-8	
Pyrene	**3870**	ug/kg	132	10	03/27/15 11:21	03/31/15 12:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	55-125	1	03/27/15 11:21	03/30/15 16:50	321-60-8	
p-Terphenyl-d14 (S)	64	%.	30-150	1	03/27/15 11:21	03/30/15 16:50	1718-51-0	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1270	1	04/01/15 09:05	04/01/15 22:19	67-64-1	
Allyl chloride	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	107-05-1	
Benzene	ND	ug/kg	25.4	1	04/01/15 09:05	04/01/15 22:19	71-43-2	
Bromobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	108-86-1	
Bromochloromethane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	74-97-5	
Bromodichloromethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	75-27-4	
Bromoform	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	75-25-2	
Bromomethane	ND	ug/kg	636	1	04/01/15 09:05	04/01/15 22:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	318	1	04/01/15 09:05	04/01/15 22:19	78-93-3	
n-Butylbenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	56-23-5	
Chlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	108-90-7	
Chloroethane	ND	ug/kg	636	1	04/01/15 09:05	04/01/15 22:19	75-00-3	
Chloroform	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	67-66-3	
Chloromethane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	636	1	04/01/15 09:05	04/01/15 22:19	96-12-8	
Dibromochloromethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	106-93-4	
Dibromomethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	75-71-8	
1,1-Dichloroethane	**142**	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	636	1	04/01/15 09:05	04/01/15 22:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	142-28-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP4 2-4 **Lab ID: 10300801004** Collected: 03/24/15 13:20 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	60-29-7	
Ethylbenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	318	1	04/01/15 09:05	04/01/15 22:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	99-87-6	
Methylene Chloride	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	318	1	04/01/15 09:05	04/01/15 22:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	1634-04-4	
Naphthalene	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	91-20-3	
n-Propylbenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	103-65-1	
Styrene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	79-34-5	
Tetrachloroethene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2540	1	04/01/15 09:05	04/01/15 22:19	109-99-9	
Toluene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	79-00-5	
Trichloroethene	ND	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	254	1	04/01/15 09:05	04/01/15 22:19	76-13-1	
1,2,4-Trimethylbenzene	**142**	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	95-63-6	
1,3,5-Trimethylbenzene	**103**	ug/kg	63.6	1	04/01/15 09:05	04/01/15 22:19	108-67-8	
Vinyl chloride	ND	ug/kg	25.4	1	04/01/15 09:05	04/01/15 22:19	75-01-4	
Xylene (Total)	ND	ug/kg	191	1	04/01/15 09:05	04/01/15 22:19	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	55-150	1	04/01/15 09:05	04/01/15 22:19	17060-07-0	
Toluene-d8 (S)	102	%.	61-125	1	04/01/15 09:05	04/01/15 22:19	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	54-131	1	04/01/15 09:05	04/01/15 22:19	460-00-4	

Sample: GP5 4-8 **Lab ID: 10300801005** Collected: 03/25/15 10:30 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**19.5**	%	0.10	1		03/27/15 12:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP5 4-8 **Lab ID: 10300801005** Collected: 03/25/15 10:30 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**3080**	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	83-32-9	
Acenaphthylene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	208-96-8	
Anthracene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	120-12-7	
Benzo(a)anthracene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	207-08-9	
Chrysene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	53-70-3	
Fluoranthene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	206-44-0	
Fluorene	**2190**	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	193-39-5	
Naphthalene	**39000**	ug/kg	1240	100	03/27/15 11:21	03/31/15 11:52	91-20-3	
Phenanthrene	**3560**	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	85-01-8	
Pyrene	**1730**	ug/kg	621	50	03/27/15 11:21	03/31/15 11:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	179	%.	55-125	50	03/27/15 11:21	03/31/15 11:08	321-60-8	D3,S4
p-Terphenyl-d14 (S)	48	%.	30-150	50	03/27/15 11:21	03/31/15 11:08	1718-51-0	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	6210	5	04/01/15 14:03	04/08/15 02:17	67-64-1	
Allyl chloride	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	107-05-1	
Benzene	ND	ug/kg	124	5	04/01/15 14:03	04/08/15 02:17	71-43-2	
Bromobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	108-86-1	
Bromochloromethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	74-97-5	
Bromodichloromethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	75-27-4	
Bromoform	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	75-25-2	
Bromomethane	ND	ug/kg	3100	5	04/01/15 14:03	04/08/15 02:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1550	5	04/01/15 14:03	04/08/15 02:17	78-93-3	
n-Butylbenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	56-23-5	
Chlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	108-90-7	
Chloroethane	ND	ug/kg	3100	5	04/01/15 14:03	04/08/15 02:17	75-00-3	
Chloroform	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	67-66-3	
Chloromethane	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3100	5	04/01/15 14:03	04/08/15 02:17	96-12-8	
Dibromochloromethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	106-93-4	
Dibromomethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	541-73-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP5 4-8 **Lab ID: 10300801005** Collected: 03/25/15 10:30 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,4-Dichlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	156-60-5	
Dichlorofluoromethane	ND	ug/kg	3100	5	04/01/15 14:03	04/08/15 02:17	75-43-4	
1,2-Dichloropropane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	60-29-7	
Ethylbenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	1550	5	04/01/15 14:03	04/08/15 02:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	98-82-8	
p-Isopropyltoluene	**1880**	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	99-87-6	
Methylene Chloride	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1550	5	04/01/15 14:03	04/08/15 02:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	1634-04-4	
Naphthalene	**18800**	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	91-20-3	
n-Propylbenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	103-65-1	
Styrene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	79-34-5	
Tetrachloroethene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	127-18-4	
Tetrahydrofuran	ND	ug/kg	12400	5	04/01/15 14:03	04/08/15 02:17	109-99-9	
Toluene	ND	ug/kg	621	5	04/01/15 14:03	04/08/15 02:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	79-00-5	
Trichloroethene	ND	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1240	5	04/01/15 14:03	04/08/15 02:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	3100	5	04/01/15 14:03	04/08/15 02:17	76-13-1	
1,2,4-Trimethylbenzene	**6390**	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	95-63-6	
1,3,5-Trimethylbenzene	**3000**	ug/kg	310	5	04/01/15 14:03	04/08/15 02:17	108-67-8	
Vinyl chloride	ND	ug/kg	124	5	04/01/15 14:03	04/08/15 02:17	75-01-4	
Xylene (Total)	**1830**	ug/kg	931	5	04/01/15 14:03	04/08/15 02:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	55-150	5	04/01/15 14:03	04/08/15 02:17	17060-07-0	
Toluene-d8 (S)	97	%.	61-125	5	04/01/15 14:03	04/08/15 02:17	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	54-131	5	04/01/15 14:03	04/08/15 02:17	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP6 4-8 **Lab ID: 10300801006** Collected: 03/24/15 16:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**49.1**	%	0.10	1		03/27/15 12:33		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**6970**	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	83-32-9	
Acenaphthylene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	208-96-8	
Anthracene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	207-08-9	
Chrysene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	53-70-3	
Fluoranthene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	206-44-0	
Fluorene	**3640**	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	193-39-5	
Naphthalene	**83800**	ug/kg	3920	200	03/27/15 11:21	03/31/15 11:30	91-20-3	
Phenanthrene	**2470**	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	85-01-8	
Pyrene	**2800**	ug/kg	979	50	03/27/15 11:21	03/31/15 10:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	505	%.	55-125	50	03/27/15 11:21	03/31/15 10:25	321-60-8	D3,S4
p-Terphenyl-d14 (S)	49	%.	30-150	50	03/27/15 11:21	03/31/15 10:25	1718-51-0	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1900	1	04/01/15 09:05	04/01/15 22:39	67-64-1	
Allyl chloride	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	107-05-1	
Benzene	ND	ug/kg	37.9	1	04/01/15 09:05	04/01/15 22:39	71-43-2	
Bromobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	108-86-1	
Bromochloromethane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	74-97-5	
Bromodichloromethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	75-27-4	
Bromoform	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	75-25-2	
Bromomethane	ND	ug/kg	949	1	04/01/15 09:05	04/01/15 22:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	474	1	04/01/15 09:05	04/01/15 22:39	78-93-3	
n-Butylbenzene	**4980**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	104-51-8	
sec-Butylbenzene	**320**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	56-23-5	
Chlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	108-90-7	
Chloroethane	ND	ug/kg	949	1	04/01/15 09:05	04/01/15 22:39	75-00-3	
Chloroform	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	67-66-3	
Chloromethane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	949	1	04/01/15 09:05	04/01/15 22:39	96-12-8	
Dibromochloromethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	106-93-4	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP6 4-8 **Lab ID: 10300801006** Collected: 03/24/15 16:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromomethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	156-60-5	
Dichlorofluoromethane	ND	ug/kg	949	1	04/01/15 09:05	04/01/15 22:39	75-43-4	
1,2-Dichloropropane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	60-29-7	
Ethylbenzene	**301**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	474	1	04/01/15 09:05	04/01/15 22:39	87-68-3	
Isopropylbenzene (Cumene)	**268**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	98-82-8	
p-Isopropyltoluene	**1680**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	99-87-6	
Methylene Chloride	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	474	1	04/01/15 09:05	04/01/15 22:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	1634-04-4	
Naphthalene	**67500**	ug/kg	1900	5	04/01/15 09:05	04/08/15 15:19	91-20-3	
n-Propylbenzene	**553**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	103-65-1	
Styrene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	79-34-5	
Tetrachloroethene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	127-18-4	
Tetrahydrofuran	ND	ug/kg	3790	1	04/01/15 09:05	04/01/15 22:39	109-99-9	
Toluene	ND	ug/kg	190	1	04/01/15 09:05	04/01/15 22:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	79-00-5	
Trichloroethene	ND	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	379	1	04/01/15 09:05	04/01/15 22:39	76-13-1	
1,2,4-Trimethylbenzene	**13100**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	95-63-6	
1,3,5-Trimethylbenzene	**4720**	ug/kg	94.9	1	04/01/15 09:05	04/01/15 22:39	108-67-8	
Vinyl chloride	ND	ug/kg	37.9	1	04/01/15 09:05	04/01/15 22:39	75-01-4	
Xylene (Total)	**4570**	ug/kg	285	1	04/01/15 09:05	04/01/15 22:39	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP6 4-8 **Lab ID: 10300801006** Collected: 03/24/15 16:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	55-150	1	04/01/15 09:05	04/01/15 22:39	17060-07-0	
Toluene-d8 (S)	105	%.	61-125	1	04/01/15 09:05	04/01/15 22:39	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	54-131	1	04/01/15 09:05	04/01/15 22:39	460-00-4	

Sample: GP7 2-4 **Lab ID: 10300801007** Collected: 03/24/15 14:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**13.0**	%	0.10	1		03/27/15 12:33		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**121000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	83-32-9	
Acenaphthylene	**1070**	ug/kg	573	5	03/27/15 11:21	03/30/15 18:17	208-96-8	
Anthracene	**182000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	120-12-7	
Benzo(a)anthracene	**215000**	ug/kg	11500	100	03/27/15 11:21	03/31/15 12:57	56-55-3	
Benzo(a)pyrene	**204000**	ug/kg	11500	100	03/27/15 11:21	03/31/15 12:57	50-32-8	
Benzo(b)fluoranthene	**237000**	ug/kg	11500	100	03/27/15 11:21	03/31/15 12:57	205-99-2	
Benzo(g,h,i)perylene	**113000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	191-24-2	
Benzo(k)fluoranthene	**101000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	207-08-9	
Chrysene	**207000**	ug/kg	11500	100	03/27/15 11:21	03/31/15 12:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	573	5	03/27/15 11:21	03/30/15 18:17	53-70-3	
Fluoranthene	**645000**	ug/kg	57300	500	03/27/15 11:21	03/31/15 13:40	206-44-0	
Fluorene	**112000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**105000**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	193-39-5	
Naphthalene	**80200**	ug/kg	5730	50	03/27/15 11:21	03/31/15 12:35	91-20-3	
Phenanthrene	**838000**	ug/kg	57300	500	03/27/15 11:21	03/31/15 13:40	85-01-8	
Pyrene	**684000**	ug/kg	57300	500	03/27/15 11:21	03/31/15 13:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	55-125	5	03/27/15 11:21	03/30/15 18:17	321-60-8	D3,P3
p-Terphenyl-d14 (S)	281	%.	30-150	5	03/27/15 11:21	03/30/15 18:17	1718-51-0	S4
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1160	1	04/01/15 09:05	04/02/15 00:18	67-64-1	
Allyl chloride	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	107-05-1	
Benzene	ND	ug/kg	23.2	1	04/01/15 09:05	04/02/15 00:18	71-43-2	
Bromobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	108-86-1	
Bromochloromethane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	74-97-5	
Bromodichloromethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	75-27-4	
Bromoform	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	75-25-2	
Bromomethane	ND	ug/kg	580	1	04/01/15 09:05	04/02/15 00:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	290	1	04/01/15 09:05	04/02/15 00:18	78-93-3	
n-Butylbenzene	**107**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	104-51-8	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP7 2-4 **Lab ID: 10300801007** Collected: 03/24/15 14:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	56-23-5	
Chlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	108-90-7	
Chloroethane	ND	ug/kg	580	1	04/01/15 09:05	04/02/15 00:18	75-00-3	
Chloroform	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	67-66-3	
Chloromethane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	580	1	04/01/15 09:05	04/02/15 00:18	96-12-8	
Dibromochloromethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	106-93-4	
Dibromomethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	156-60-5	
Dichlorofluoromethane	ND	ug/kg	580	1	04/01/15 09:05	04/02/15 00:18	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	60-29-7	
Ethylbenzene	**88.0**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	290	1	04/01/15 09:05	04/02/15 00:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	99-87-6	
Methylene Chloride	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	290	1	04/01/15 09:05	04/02/15 00:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	1634-04-4	
Naphthalene	**10300**	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	91-20-3	
n-Propylbenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	103-65-1	
Styrene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	79-34-5	
Tetrachloroethene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	127-18-4	
Tetrahydrofuran	ND	ug/kg	2320	1	04/01/15 09:05	04/02/15 00:18	109-99-9	
Toluene	**224**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	87-61-6	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP7 2-4 **Lab ID: 10300801007** Collected: 03/24/15 14:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trichlorobenzene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	120-82-1	
1,1,1-Trichloroethane	**460**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	79-00-5	
Trichloroethene	ND	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	232	1	04/01/15 09:05	04/02/15 00:18	76-13-1	
1,2,4-Trimethylbenzene	**200**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	95-63-6	
1,3,5-Trimethylbenzene	**71.2**	ug/kg	58.0	1	04/01/15 09:05	04/02/15 00:18	108-67-8	
Vinyl chloride	ND	ug/kg	23.2	1	04/01/15 09:05	04/02/15 00:18	75-01-4	
Xylene (Total)	**749**	ug/kg	174	1	04/01/15 09:05	04/02/15 00:18	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	55-150	1	04/01/15 09:05	04/02/15 00:18	17060-07-0	
Toluene-d8 (S)	100	%.	61-125	1	04/01/15 09:05	04/02/15 00:18	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	54-131	1	04/01/15 09:05	04/02/15 00:18	460-00-4	

Sample: GP50 4-8 **Lab ID: 10300801008** Collected: 03/25/15 10:35 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**25.7**	%	0.10	1		03/27/15 12:33		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**2240**	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	83-32-9	
Acenaphthylene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	208-96-8	
Anthracene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	207-08-9	
Chrysene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	53-70-3	
Fluoranthene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	206-44-0	
Fluorene	**1690**	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	193-39-5	
Naphthalene	**20000**	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	91-20-3	
Phenanthrene	**2290**	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	85-01-8	
Pyrene	**1190**	ug/kg	673	50	03/27/15 11:21	03/31/15 10:47	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	231	%.	55-125	50	03/27/15 11:21	03/31/15 10:47	321-60-8	D3,S4
p-Terphenyl-d14 (S)	48	%.	30-150	50	03/27/15 11:21	03/31/15 10:47	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP50 4-8 **Lab ID: 10300801008** Collected: 03/25/15 10:35 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	7090	5	04/02/15 15:40	04/08/15 21:12	67-64-1	
Allyl chloride	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	107-05-1	
Benzene	ND	ug/kg	142	5	04/02/15 15:40	04/08/15 21:12	71-43-2	
Bromobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	108-86-1	
Bromochloromethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	74-97-5	
Bromodichloromethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	75-27-4	
Bromoform	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	75-25-2	
Bromomethane	ND	ug/kg	3540	5	04/02/15 15:40	04/08/15 21:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1770	5	04/02/15 15:40	04/08/15 21:12	78-93-3	
n-Butylbenzene	**1330**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	104-51-8	
sec-Butylbenzene	**614**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	98-06-6	
Carbon tetrachloride	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	56-23-5	
Chlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	108-90-7	
Chloroethane	ND	ug/kg	3540	5	04/02/15 15:40	04/08/15 21:12	75-00-3	
Chloroform	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	67-66-3	
Chloromethane	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3540	5	04/02/15 15:40	04/08/15 21:12	96-12-8	
Dibromochloromethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	106-93-4	
Dibromomethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	156-60-5	
Dichlorofluoromethane	ND	ug/kg	3540	5	04/02/15 15:40	04/08/15 21:12	75-43-4	
1,2-Dichloropropane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	60-29-7	
Ethylbenzene	**406**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	1770	5	04/02/15 15:40	04/08/15 21:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	98-82-8	
p-Isopropyltoluene	**3180**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	99-87-6	
Methylene Chloride	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1770	5	04/02/15 15:40	04/08/15 21:12	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP50 4-8 **Lab ID: 10300801008** Collected: 03/25/15 10:35 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	1634-04-4	
Naphthalene	**33700**	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	91-20-3	
n-Propylbenzene	**527**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	103-65-1	
Styrene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	79-34-5	
Tetrachloroethene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	127-18-4	
Tetrahydrofuran	ND	ug/kg	14200	5	04/02/15 15:40	04/08/15 21:12	109-99-9	
Toluene	ND	ug/kg	709	5	04/02/15 15:40	04/08/15 21:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	79-00-5	
Trichloroethene	ND	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1420	5	04/02/15 15:40	04/08/15 21:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	3540	5	04/02/15 15:40	04/08/15 21:12	76-13-1	L3
1,2,4-Trimethylbenzene	**11200**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	95-63-6	
1,3,5-Trimethylbenzene	**3720**	ug/kg	354	5	04/02/15 15:40	04/08/15 21:12	108-67-8	
Vinyl chloride	ND	ug/kg	142	5	04/02/15 15:40	04/08/15 21:12	75-01-4	
Xylene (Total)	**3280**	ug/kg	1060	5	04/02/15 15:40	04/08/15 21:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	55-150	5	04/02/15 15:40	04/08/15 21:12	17060-07-0	
Toluene-d8 (S)	98	%.	61-125	5	04/02/15 15:40	04/08/15 21:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	54-131	5	04/02/15 15:40	04/08/15 21:12	460-00-4	

Sample: Trip Blank **Lab ID: 10300801009** Collected: 03/24/15 00:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1000	1	04/01/15 09:05	04/01/15 16:04	67-64-1	
Allyl chloride	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	107-05-1	
Benzene	ND	ug/kg	20.0	1	04/01/15 09:05	04/01/15 16:04	71-43-2	
Bromobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	108-86-1	
Bromochloromethane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	75-27-4	
Bromoform	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	75-25-2	
Bromomethane	ND	ug/kg	500	1	04/01/15 09:05	04/01/15 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:04	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: Trip Blank **Lab ID: 10300801009** Collected: 03/24/15 00:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	108-90-7	
Chloroethane	ND	ug/kg	500	1	04/01/15 09:05	04/01/15 16:04	75-00-3	
Chloroform	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	67-66-3	
Chloromethane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	1	04/01/15 09:05	04/01/15 16:04	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	106-93-4	
Dibromomethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	1	04/01/15 09:05	04/01/15 16:04	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	99-87-6	
Methylene Chloride	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	1	04/01/15 09:05	04/01/15 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	1634-04-4	
Naphthalene	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	103-65-1	
Styrene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	1	04/01/15 09:05	04/01/15 16:04	109-99-9	
Toluene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	79-00-5	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: Trip Blank **Lab ID: 10300801009** Collected: 03/24/15 00:00 Received: 03/26/15 18:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Trichloroethene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	1	04/01/15 09:05	04/01/15 16:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	1	04/01/15 09:05	04/01/15 16:04	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	1	04/01/15 09:05	04/01/15 16:04	75-01-4	
Xylene (Total)	ND	ug/kg	150	1	04/01/15 09:05	04/01/15 16:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	55-150	1	04/01/15 09:05	04/01/15 16:04	17060-07-0	
Toluene-d8 (S)	98	%.	61-125	1	04/01/15 09:05	04/01/15 16:04	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	54-131	1	04/01/15 09:05	04/01/15 16:04	460-00-4	

Sample: GP1W **Lab ID: 10300802001** Collected: 03/25/15 10:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	**1.2**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	83-32-9	
Acenaphthylene	**0.17**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	208-96-8	
Anthracene	**0.18**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	120-12-7	
Benzo(a)anthracene	**0.43**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	56-55-3	
Benzo(a)pyrene	**0.57**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	50-32-8	
Benzo(b)fluoranthene	**0.84**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	205-99-2	
Benzo(g,h,i)perylene	**0.52**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	191-24-2	
Benzo(k)fluoranthene	**0.27**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	207-08-9	
Chrysene	**0.63**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	53-70-3	
Fluoranthene	**1.4**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	206-44-0	
Fluorene	**0.35**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.45**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	193-39-5	
Naphthalene	ND	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	91-20-3	
Phenanthrene	**0.89**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	85-01-8	
Pyrene	**1.2**	ug/L	0.041	1	03/31/15 13:40	04/02/15 11:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%.	52-125	1	03/31/15 13:40	04/02/15 11:38	321-60-8	
p-Terphenyl-d14 (S)	70	%.	62-125	1	03/31/15 13:40	04/02/15 11:38	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		04/04/15 03:55	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/04/15 03:55	107-05-1	
Benzene	ND	ug/L	1.0	1		04/04/15 03:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/04/15 03:55	108-86-1	
Bromochloromethane	ND	ug/L	4.0	1		04/04/15 03:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/04/15 03:55	75-27-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP1W **Lab ID: 10300802001** Collected: 03/25/15 10:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Bromoform	ND	ug/L	4.0	1		04/04/15 03:55	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/04/15 03:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/04/15 03:55	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	104-51-8	C0,L2
sec-Butylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/04/15 03:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/04/15 03:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/04/15 03:55	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/04/15 03:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 03:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 03:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/04/15 03:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/04/15 03:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/04/15 03:55	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/04/15 03:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	1		04/04/15 03:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/04/15 03:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/04/15 03:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/04/15 03:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 03:55	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 03:55	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 03:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/04/15 03:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 03:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/04/15 03:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 03:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 03:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/04/15 03:55	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/04/15 03:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/04/15 03:55	98-82-8	
p-Isopropyltoluene	**4.8**	ug/L	1.0	1		04/04/15 03:55	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/04/15 03:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/04/15 03:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/04/15 03:55	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/04/15 03:55	91-20-3	C0,L2
n-Propylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	103-65-1	
Styrene	ND	ug/L	1.0	1		04/04/15 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 03:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/04/15 03:55	127-18-4	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP1W **Lab ID: 10300802001** Collected: 03/25/15 10:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Tetrahydrofuran	ND	ug/L	10.0	1		04/04/15 03:55	109-99-9	
Toluene	ND	ug/L	1.0	1		04/04/15 03:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 03:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/04/15 03:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/04/15 03:55	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/04/15 03:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 03:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/04/15 03:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/04/15 03:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 03:55	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/04/15 03:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/04/15 03:55	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		04/04/15 03:55	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		04/04/15 03:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		04/04/15 03:55	460-00-4	

Sample: GP2W **Lab ID: 10300802002** Collected: 03/25/15 10:55 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	**0.19**	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	83-32-9	
Acenaphthylene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	208-96-8	
Anthracene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	207-08-9	
Chrysene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	53-70-3	
Fluoranthene	**0.078**	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	206-44-0	
Fluorene	**0.17**	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	193-39-5	
Naphthalene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	91-20-3	
Phenanthrene	**0.11**	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	85-01-8	
Pyrene	**0.070**	ug/L	0.043	1	03/31/15 13:40	04/02/15 12:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	52-125	1	03/31/15 13:40	04/02/15 12:00	321-60-8	
p-Terphenyl-d14 (S)	67	%.	62-125	1	03/31/15 13:40	04/02/15 12:00	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		04/08/15 17:14	67-64-1	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP2W **Lab ID: 10300802002** Collected: 03/25/15 10:55 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Allyl chloride	ND	ug/L	4.0	1		04/08/15 17:14	107-05-1	
Benzene	ND	ug/L	1.0	1		04/08/15 17:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/08/15 17:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/08/15 17:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/08/15 17:14	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/08/15 17:14	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/08/15 17:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/08/15 17:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	135-98-8	L3
tert-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/08/15 17:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	108-90-7	
Chloroethane	**3.4**	ug/L	1.0	1		04/08/15 17:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/08/15 17:14	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/08/15 17:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/08/15 17:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/08/15 17:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/08/15 17:14	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/08/15 17:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/08/15 17:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:14	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/08/15 17:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/08/15 17:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	1		04/08/15 17:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	100-41-4	
Hexachloro-1,3-butadiene	**1.0**	ug/L	1.0	1		04/08/15 17:14	87-68-3	B,C8,L1
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/15 17:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/08/15 17:14	99-87-6	L3
Methylene Chloride	ND	ug/L	4.0	1		04/08/15 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/08/15 17:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/08/15 17:14	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/08/15 17:14	91-20-3	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP2W **Lab ID: 10300802002** Collected: 03/25/15 10:55 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	103-65-1	
Styrene	ND	ug/L	1.0	1		04/08/15 17:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/08/15 17:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/08/15 17:14	109-99-9	
Toluene	ND	ug/L	1.0	1		04/08/15 17:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:14	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/08/15 17:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/08/15 17:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/08/15 17:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/08/15 17:14	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/08/15 17:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/08/15 17:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		04/08/15 17:14	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		04/08/15 17:14	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		04/08/15 17:14	460-00-4	

Sample: GP3W **Lab ID: 10300802003** Collected: 03/25/15 11:10 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	**0.15**	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	83-32-9	
Acenaphthylene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	208-96-8	
Anthracene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	207-08-9	
Chrysene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	53-70-3	
Fluoranthene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	206-44-0	
Fluorene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	193-39-5	
Naphthalene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	91-20-3	
Phenanthrene	**0.083**	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	85-01-8	
Pyrene	ND	ug/L	0.042	1	03/31/15 13:40	04/02/15 12:21	129-00-0	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP3W **Lab ID: 10300802003** Collected: 03/25/15 11:10 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Surrogates								
2-Fluorobiphenyl (S)	77	%.	52-125	1	03/31/15 13:40	04/02/15 12:21	321-60-8	
p-Terphenyl-d14 (S)	65	%.	62-125	1	03/31/15 13:40	04/02/15 12:21	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		04/08/15 17:29	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/08/15 17:29	107-05-1	
Benzene	ND	ug/L	1.0	1		04/08/15 17:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/08/15 17:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/08/15 17:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/08/15 17:29	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/08/15 17:29	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/08/15 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/08/15 17:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	135-98-8	L3
tert-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/08/15 17:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/08/15 17:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/08/15 17:29	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/08/15 17:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/08/15 17:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/08/15 17:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/08/15 17:29	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/08/15 17:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/08/15 17:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:29	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:29	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/08/15 17:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/08/15 17:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	1		04/08/15 17:29	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/08/15 17:29	87-68-3	L1

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP3W **Lab ID: 10300802003** Collected: 03/25/15 11:10 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/15 17:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/08/15 17:29	99-87-6	L3
Methylene Chloride	ND	ug/L	4.0	1		04/08/15 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/08/15 17:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/08/15 17:29	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/08/15 17:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	103-65-1	
Styrene	ND	ug/L	1.0	1		04/08/15 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/08/15 17:29	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/08/15 17:29	109-99-9	
Toluene	ND	ug/L	1.0	1		04/08/15 17:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:29	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/08/15 17:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/08/15 17:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/08/15 17:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/08/15 17:29	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/08/15 17:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/08/15 17:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	75-125	1		04/08/15 17:29	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		04/08/15 17:29	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		04/08/15 17:29	460-00-4	

Sample: GP4W **Lab ID: 10300802004** Collected: 03/25/15 11:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	83-32-9	
Acenaphthylene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	208-96-8	
Anthracene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	207-08-9	
Chrysene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	53-70-3	
Fluoranthene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	206-44-0	

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP4W **Lab ID: 10300802004** Collected: 03/25/15 11:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Fluorene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	193-39-5	
Naphthalene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	91-20-3	
Phenanthrene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	85-01-8	
Pyrene	ND	ug/L	0.045	1	03/31/15 13:40	04/02/15 12:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%.	52-125	1	03/31/15 13:40	04/02/15 12:43	321-60-8	
p-Terphenyl-d14 (S)	73	%.	62-125	1	03/31/15 13:40	04/02/15 12:43	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	**33.5**	ug/L	20.0	1		04/04/15 04:09	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/04/15 04:09	107-05-1	
Benzene	ND	ug/L	1.0	1		04/04/15 04:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/04/15 04:09	108-86-1	
Bromochloromethane	ND	ug/L	4.0	1		04/04/15 04:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/04/15 04:09	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/04/15 04:09	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/04/15 04:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/04/15 04:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	104-51-8	C0,L2
sec-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/04/15 04:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/04/15 04:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/04/15 04:09	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/04/15 04:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 04:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 04:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/04/15 04:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/04/15 04:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/04/15 04:09	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/04/15 04:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	1		04/04/15 04:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/04/15 04:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/04/15 04:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 04:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 04:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/04/15 04:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 04:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/04/15 04:09	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP4W **Lab ID: 10300802004** Collected: 03/25/15 11:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 04:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 04:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/04/15 04:09	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/04/15 04:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/04/15 04:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/04/15 04:09	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/04/15 04:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/04/15 04:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/04/15 04:09	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/04/15 04:09	91-20-3	C0,L2
n-Propylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	103-65-1	
Styrene	ND	ug/L	1.0	1		04/04/15 04:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 04:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 04:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/04/15 04:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/04/15 04:09	109-99-9	
Toluene	ND	ug/L	1.0	1		04/04/15 04:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/04/15 04:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/04/15 04:09	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/04/15 04:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 04:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/04/15 04:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/04/15 04:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 04:09	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/04/15 04:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/04/15 04:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	75-125	1		04/04/15 04:09	17060-07-0	pH
Toluene-d8 (S)	99	%.	75-125	1		04/04/15 04:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		04/04/15 04:09	460-00-4	

Sample: GP6W **Lab ID: 10300802005** Collected: 03/25/15 13:20 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	**4.4**	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	83-32-9	
Acenaphthylene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	208-96-8	
Anthracene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	205-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP6W **Lab ID: 10300802005** Collected: 03/25/15 13:20 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Benzo(g,h,i)perylene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	207-08-9	
Chrysene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	53-70-3	
Fluoranthene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	206-44-0	
Fluorene	**2.3**	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	193-39-5	
Naphthalene	**231**	ug/L	2.1	50	03/31/15 13:40	04/03/15 11:32	91-20-3	
Phenanthrene	**0.92**	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	85-01-8	
Pyrene	ND	ug/L	0.21	5	03/31/15 13:40	04/03/15 11:10	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	117	%.	52-125	5	03/31/15 13:40	04/03/15 11:10	321-60-8	D3
p-Terphenyl-d14 (S)	87	%.	62-125	5	03/31/15 13:40	04/03/15 11:10	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	**60.5**	ug/L	20.0	1		04/08/15 17:58	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/08/15 17:58	107-05-1	
Benzene	ND	ug/L	1.0	1		04/08/15 17:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/08/15 17:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/08/15 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/08/15 17:58	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/08/15 17:58	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/08/15 17:58	74-83-9	
2-Butanone (MEK)	**14.5**	ug/L	5.0	1		04/08/15 17:58	78-93-3	
n-Butylbenzene	**2.7**	ug/L	1.0	1		04/08/15 17:58	104-51-8	
sec-Butylbenzene	**1.6**	ug/L	1.0	1		04/08/15 17:58	135-98-8	C0,L1
tert-Butylbenzene	ND	ug/L	1.0	1		04/08/15 17:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/08/15 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/08/15 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/08/15 17:58	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/08/15 17:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/08/15 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/08/15 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/08/15 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/08/15 17:58	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/08/15 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/08/15 17:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/08/15 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/08/15 17:58	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP6W **Lab ID: 10300802005** Collected: 03/25/15 13:20 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Dichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:58	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/08/15 17:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/08/15 17:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/08/15 17:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/08/15 17:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	1		04/08/15 17:58	60-29-7	
Ethylbenzene	**4.6**	ug/L	1.0	1		04/08/15 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/08/15 17:58	87-68-3	L3
Isopropylbenzene (Cumene)	**2.1**	ug/L	1.0	1		04/08/15 17:58	98-82-8	
p-Isopropyltoluene	**12.1**	ug/L	1.0	1		04/08/15 17:58	99-87-6	C0,L1
Methylene Chloride	ND	ug/L	4.0	1		04/08/15 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/08/15 17:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/08/15 17:58	1634-04-4	
Naphthalene	**228**	ug/L	20.0	5		04/09/15 15:20	91-20-3	H5
n-Propylbenzene	**2.8**	ug/L	1.0	1		04/08/15 17:58	103-65-1	
Styrene	ND	ug/L	1.0	1		04/08/15 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/08/15 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/08/15 17:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/08/15 17:58	109-99-9	
Toluene	**1.8**	ug/L	1.0	1		04/08/15 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/08/15 17:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/08/15 17:58	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/08/15 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/08/15 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/08/15 17:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/08/15 17:58	76-13-1	
1,2,4-Trimethylbenzene	**96.4**	ug/L	1.0	1		04/08/15 17:58	95-63-6	
1,3,5-Trimethylbenzene	**32.6**	ug/L	1.0	1		04/08/15 17:58	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/08/15 17:58	75-01-4	
Xylene (Total)	**49.7**	ug/L	3.0	1		04/08/15 17:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		04/08/15 17:58	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		04/08/15 17:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1		04/08/15 17:58	460-00-4	

Sample: GP7W **Lab ID: 10300802006** Collected: 03/25/15 13:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthene	**3.0**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	83-32-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP7W **Lab ID: 10300802006** Collected: 03/25/15 13:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510							
Acenaphthylene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	208-96-8	
Anthracene	**1.1**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	120-12-7	
Benzo(a)anthracene	**0.15**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	56-55-3	
Benzo(a)pyrene	**0.14**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	50-32-8	
Benzo(b)fluoranthene	**0.16**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	191-24-2	
Benzo(k)fluoranthene	**0.068**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	207-08-9	
Chrysene	**0.16**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	53-70-3	
Fluoranthene	**0.90**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	206-44-0	
Fluorene	**1.6**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	193-39-5	
Naphthalene	**2.1**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	91-20-3	
Phenanthrene	**4.2**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	85-01-8	
Pyrene	**0.70**	ug/L	0.043	1	03/31/15 13:40	04/02/15 13:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%.	52-125	1	03/31/15 13:40	04/02/15 13:26	321-60-8	
p-Terphenyl-d14 (S)	79	%.	62-125	1	03/31/15 13:40	04/02/15 13:26	1718-51-0	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		04/04/15 04:24	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/04/15 04:24	107-05-1	
Benzene	ND	ug/L	1.0	1		04/04/15 04:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/04/15 04:24	108-86-1	
Bromochloromethane	ND	ug/L	4.0	1		04/04/15 04:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/04/15 04:24	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/04/15 04:24	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/04/15 04:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/04/15 04:24	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	104-51-8	C0,L2
sec-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/04/15 04:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/04/15 04:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/04/15 04:24	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/04/15 04:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 04:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 04:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/04/15 04:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/04/15 04:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/04/15 04:24	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/04/15 04:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	1		04/04/15 04:24	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: GP7W **Lab ID: 10300802006** Collected: 03/25/15 13:40 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethane	ND	ug/L	1.0	1		04/04/15 04:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/04/15 04:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 04:24	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 04:24	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 04:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/04/15 04:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 04:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/04/15 04:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 04:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 04:24	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/04/15 04:24	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/04/15 04:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/04/15 04:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/04/15 04:24	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/04/15 04:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/04/15 04:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/04/15 04:24	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/04/15 04:24	91-20-3	C0,L2
n-Propylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	103-65-1	
Styrene	ND	ug/L	1.0	1		04/04/15 04:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 04:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 04:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/04/15 04:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/04/15 04:24	109-99-9	
Toluene	ND	ug/L	1.0	1		04/04/15 04:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 04:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/04/15 04:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/04/15 04:24	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/04/15 04:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 04:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/04/15 04:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/04/15 04:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 04:24	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/04/15 04:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/04/15 04:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	75-125	1		04/04/15 04:24	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		04/04/15 04:24	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		04/04/15 04:24	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: Trip Blank **Lab ID: 10300802007** Collected: 03/25/15 00:00 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		04/04/15 01:16	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/04/15 01:16	107-05-1	
Benzene	ND	ug/L	1.0	1		04/04/15 01:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/04/15 01:16	108-86-1	
Bromochloromethane	ND	ug/L	4.0	1		04/04/15 01:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/04/15 01:16	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/04/15 01:16	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/04/15 01:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/04/15 01:16	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	104-51-8	C0,L2
sec-Butylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/04/15 01:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/04/15 01:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/04/15 01:16	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/04/15 01:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 01:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/04/15 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/04/15 01:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/04/15 01:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/04/15 01:16	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/04/15 01:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	1		04/04/15 01:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/04/15 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/04/15 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/04/15 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/04/15 01:16	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 01:16	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 01:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/04/15 01:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/04/15 01:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/04/15 01:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/04/15 01:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/04/15 01:16	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/04/15 01:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/04/15 01:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/04/15 01:16	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/04/15 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/04/15 01:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/04/15 01:16	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

ANALYTICAL RESULTS

Project: 14-1004 FSY
Pace Project No.: 10300801

Sample: Trip Blank **Lab ID: 10300802007** Collected: 03/25/15 00:00 Received: 03/26/15 18:07 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		04/04/15 01:16	91-20-3	C0,L2
n-Propylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	103-65-1	
Styrene	ND	ug/L	1.0	1		04/04/15 01:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/04/15 01:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/04/15 01:16	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/04/15 01:16	109-99-9	
Toluene	ND	ug/L	1.0	1		04/04/15 01:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/04/15 01:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/04/15 01:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/04/15 01:16	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/04/15 01:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/04/15 01:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/04/15 01:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/04/15 01:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/04/15 01:16	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/04/15 01:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/04/15 01:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		04/04/15 01:16	17060-07-0	
Toluene-d8 (S)	101	%.	75-125	1		04/04/15 01:16	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		04/04/15 01:16	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MPRP/53220 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10300801001

SAMPLE DUPLICATE: 1926782

Parameter	Units	10300376001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	87.6	87.1	1	30	

SAMPLE DUPLICATE: 1926783

Parameter	Units	10300801001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	15.0	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MPRP/53225 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10300801002, 10300801003, 10300801004, 10300801005, 10300801006, 10300801007, 10300801008

SAMPLE DUPLICATE: 1926958

Parameter	Units	1244878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	16.0	12	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MSV/30935 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
Associated Lab Samples: 10300801001, 10300801002, 10300801003, 10300801004, 10300801006, 10300801007, 10300801009

METHOD BLANK: 1928535 Matrix: Solid
Associated Lab Samples: 10300801001, 10300801002, 10300801003, 10300801004, 10300801006, 10300801007, 10300801009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,1,1-Trichloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,1,2-Trichloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	04/01/15 15:22	
1,1-Dichloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,1-Dichloroethene	ug/kg	ND	200	04/01/15 15:22	
1,1-Dichloropropene	ug/kg	ND	50.0	04/01/15 15:22	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,2,3-Trichloropropane	ug/kg	ND	200	04/01/15 15:22	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	04/01/15 15:22	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	04/01/15 15:22	
1,2-Dichlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,2-Dichloroethane	ug/kg	ND	50.0	04/01/15 15:22	
1,2-Dichloropropane	ug/kg	ND	50.0	04/01/15 15:22	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,3-Dichlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
1,3-Dichloropropane	ug/kg	ND	50.0	04/01/15 15:22	
1,4-Dichlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
2,2-Dichloropropane	ug/kg	ND	200	04/01/15 15:22	
2-Butanone (MEK)	ug/kg	ND	250	04/01/15 15:22	
2-Chlorotoluene	ug/kg	ND	50.0	04/01/15 15:22	
4-Chlorotoluene	ug/kg	ND	50.0	04/01/15 15:22	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	04/01/15 15:22	
Acetone	ug/kg	ND	1000	04/01/15 15:22	
Allyl chloride	ug/kg	ND	200	04/01/15 15:22	
Benzene	ug/kg	ND	20.0	04/01/15 15:22	
Bromobenzene	ug/kg	ND	50.0	04/01/15 15:22	
Bromochloromethane	ug/kg	ND	200	04/01/15 15:22	
Bromodichloromethane	ug/kg	ND	50.0	04/01/15 15:22	
Bromoform	ug/kg	ND	200	04/01/15 15:22	
Bromomethane	ug/kg	ND	500	04/01/15 15:22	
Carbon tetrachloride	ug/kg	ND	200	04/01/15 15:22	
Chlorobenzene	ug/kg	ND	50.0	04/01/15 15:22	
Chloroethane	ug/kg	ND	500	04/01/15 15:22	
Chloroform	ug/kg	ND	50.0	04/01/15 15:22	
Chloromethane	ug/kg	ND	200	04/01/15 15:22	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	04/01/15 15:22	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	04/01/15 15:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

METHOD BLANK: 1928535 Matrix: Solid
Associated Lab Samples: 10300801001, 10300801002, 10300801003, 10300801004, 10300801006, 10300801007, 10300801009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	04/01/15 15:22	
Dibromomethane	ug/kg	ND	50.0	04/01/15 15:22	
Dichlorodifluoromethane	ug/kg	ND	200	04/01/15 15:22	
Dichlorofluoromethane	ug/kg	ND	500	04/01/15 15:22	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	04/01/15 15:22	
Ethylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
Hexachloro-1,3-butadiene	ug/kg	ND	250	04/01/15 15:22	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	04/01/15 15:22	
Methyl-tert-butyl ether	ug/kg	ND	50.0	04/01/15 15:22	
Methylene Chloride	ug/kg	ND	200	04/01/15 15:22	
n-Butylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
n-Propylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
Naphthalene	ug/kg	ND	200	04/01/15 15:22	
p-Isopropyltoluene	ug/kg	ND	50.0	04/01/15 15:22	
sec-Butylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
Styrene	ug/kg	ND	50.0	04/01/15 15:22	
tert-Butylbenzene	ug/kg	ND	50.0	04/01/15 15:22	
Tetrachloroethene	ug/kg	ND	50.0	04/01/15 15:22	
Tetrahydrofuran	ug/kg	ND	2000	04/01/15 15:22	
Toluene	ug/kg	ND	50.0	04/01/15 15:22	
trans-1,2-Dichloroethene	ug/kg	ND	200	04/01/15 15:22	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	04/01/15 15:22	
Trichloroethene	ug/kg	ND	50.0	04/01/15 15:22	
Trichlorofluoromethane	ug/kg	ND	200	04/01/15 15:22	
Vinyl chloride	ug/kg	ND	20.0	04/01/15 15:22	
Xylene (Total)	ug/kg	ND	150	04/01/15 15:22	
1,2-Dichloroethane-d4 (S)	%.	87	55-150	04/01/15 15:22	
4-Bromofluorobenzene (S)	%.	101	54-131	04/01/15 15:22	
Toluene-d8 (S)	%.	97	61-125	04/01/15 15:22	

LABORATORY CONTROL SAMPLE: 1928536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1010	101	75-125	
1,1,1-Trichloroethane	ug/kg	1000	1070	107	66-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1200	120	69-125	E,SS
1,1,2-Trichloroethane	ug/kg	1000	1050	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	970	97	55-125	
1,1-Dichloroethane	ug/kg	1000	1010	101	67-125	
1,1-Dichloroethene	ug/kg	1000	932	93	62-125	
1,1-Dichloropropene	ug/kg	1000	971	97	65-125	
1,2,3-Trichlorobenzene	ug/kg	1000	1060	106	58-132	
1,2,3-Trichloropropane	ug/kg	1000	1050	105	71-125	
1,2,4-Trichlorobenzene	ug/kg	1000	1030	103	63-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1928536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	967	97	74-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2760	111	55-142	
1,2-Dibromoethane (EDB)	ug/kg	1000	1030	103	75-125	
1,2-Dichlorobenzene	ug/kg	1000	1030	103	75-125	
1,2-Dichloroethane	ug/kg	1000	913	91	71-125	
1,2-Dichloropropane	ug/kg	1000	959	96	74-125	
1,3,5-Trimethylbenzene	ug/kg	1000	979	98	72-125	
1,3-Dichlorobenzene	ug/kg	1000	946	95	75-125	
1,3-Dichloropropane	ug/kg	1000	987	99	75-125	
1,4-Dichlorobenzene	ug/kg	1000	981	98	75-125	
2,2-Dichloropropane	ug/kg	1000	951	95	45-125	
2-Butanone (MEK)	ug/kg	5000	5050	101	39-136	
2-Chlorotoluene	ug/kg	1000	968	97	73-125	
4-Chlorotoluene	ug/kg	1000	931	93	74-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5270	105	55-132	
Acetone	ug/kg	5000	5260	105	55-131	
Allyl chloride	ug/kg	1000	956	96	53-125	
Benzene	ug/kg	1000	943	94	69-125	
Bromobenzene	ug/kg	1000	925	93	75-125	
Bromochloromethane	ug/kg	1000	976	98	75-125	
Bromodichloromethane	ug/kg	1000	1020	102	75-125	
Bromoform	ug/kg	1000	1010	101	71-125	
Bromomethane	ug/kg	1000	826	83	42-150	
Carbon tetrachloride	ug/kg	1000	959	96	62-125	
Chlorobenzene	ug/kg	1000	980	98	75-125	
Chloroethane	ug/kg	1000	875	87	41-150	
Chloroform	ug/kg	1000	947	95	72-125	
Chloromethane	ug/kg	1000	732	73	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	986	99	73-125	
cis-1,3-Dichloropropene	ug/kg	1000	957	96	74-125	
Dibromochloromethane	ug/kg	1000	1070	107	75-125	
Dibromomethane	ug/kg	1000	1110	111	75-125	
Dichlorodifluoromethane	ug/kg	1000	663	66	30-125	
Dichlorofluoromethane	ug/kg	1000	871	87	30-150	
Diethyl ether (Ethyl ether)	ug/kg	1000	1020	102	58-125	
Ethylbenzene	ug/kg	1000	969	97	72-125	
Hexachloro-1,3-butadiene	ug/kg	1000	959	96	59-138	
Isopropylbenzene (Cumene)	ug/kg	1000	1040	104	72-125	
Methyl-tert-butyl ether	ug/kg	1000	995	99	72-125	
Methylene Chloride	ug/kg	1000	955	95	71-125	
n-Butylbenzene	ug/kg	1000	939	94	65-125	
n-Propylbenzene	ug/kg	1000	951	95	71-125	
Naphthalene	ug/kg	1000	1150	115	55-139	
p-Isopropyltoluene	ug/kg	1000	991	99	69-125	
sec-Butylbenzene	ug/kg	1000	964	96	68-125	
Styrene	ug/kg	1000	1030	103	75-125	
tert-Butylbenzene	ug/kg	1000	977	98	70-125	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1928536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1030	103	69-125	
Tetrahydrofuran	ug/kg	10000	11800	118	62-129	
Toluene	ug/kg	1000	991	99	72-125	
trans-1,2-Dichloroethene	ug/kg	1000	908	91	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	957	96	74-125	
Trichloroethene	ug/kg	1000	1010	101	72-125	
Trichlorofluoromethane	ug/kg	1000	890	89	30-150	
Vinyl chloride	ug/kg	1000	765	76	53-125	
Xylene (Total)	ug/kg	3000	3120	104	74-125	
1,2-Dichloroethane-d4 (S)	%.			94	55-150	
4-Bromofluorobenzene (S)	%.			94	54-131	
Toluene-d8 (S)	%.			100	61-125	

MATRIX SPIKE SAMPLE: 1928537

Parameter	Units	10300801001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1150	1120	97	62-150	
1,1,1-Trichloroethane	ug/kg	ND	1150	1160	101	58-150	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1150	1390	121	30-150	E,SS
1,1,2-Trichloroethane	ug/kg	ND	1150	1180	103	61-149	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1150	1060	92	45-150	
1,1-Dichloroethane	ug/kg	ND	1150	1070	93	56-150	
1,1-Dichloroethene	ug/kg	ND	1150	955	83	48-150	
1,1-Dichloropropene	ug/kg	ND	1150	1010	88	58-150	
1,2,3-Trichlorobenzene	ug/kg	ND	1150	1130	99	55-150	
1,2,3-Trichloropropane	ug/kg	ND	1150	1190	104	57-148	
1,2,4-Trichlorobenzene	ug/kg	ND	1150	1110	96	61-150	
1,2,4-Trimethylbenzene	ug/kg	ND	1150	1080	94	64-150	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2880	3000	104	40-150	
1,2-Dibromoethane (EDB)	ug/kg	ND	1150	1110	97	62-147	
1,2-Dichlorobenzene	ug/kg	ND	1150	1110	97	73-133	
1,2-Dichloroethane	ug/kg	ND	1150	962	84	63-132	
1,2-Dichloropropane	ug/kg	ND	1150	1040	91	69-127	
1,3,5-Trimethylbenzene	ug/kg	ND	1150	1080	94	63-137	
1,3-Dichlorobenzene	ug/kg	ND	1150	1010	88	69-133	
1,3-Dichloropropane	ug/kg	ND	1150	1090	95	70-130	
1,4-Dichlorobenzene	ug/kg	ND	1150	1020	89	69-130	
2,2-Dichloropropane	ug/kg	ND	1150	1010	87	54-135	
2-Butanone (MEK)	ug/kg	ND	5750	5650	98	49-145	
2-Chlorotoluene	ug/kg	ND	1150	1060	92	68-129	
4-Chlorotoluene	ug/kg	ND	1150	1010	87	67-134	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5750	5860	102	60-150	
Acetone	ug/kg	ND	5750	5540	96	65-135	
Allyl chloride	ug/kg	ND	1150	969	84	55-126	
Benzene	ug/kg	ND	1150	1020	89	63-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

MATRIX SPIKE SAMPLE: 1928537

Parameter	Units	10300801001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1150	1030	89	68-133	
Bromochloromethane	ug/kg	ND	1150	983	85	66-130	
Bromodichloromethane	ug/kg	ND	1150	1080	94	68-129	
Bromoform	ug/kg	ND	1150	1100	96	63-135	
Bromomethane	ug/kg	ND	1150	906	77	30-150	
Carbon tetrachloride	ug/kg	ND	1150	1050	91	56-140	
Chlorobenzene	ug/kg	ND	1150	1050	91	69-130	
Chloroethane	ug/kg	ND	1150	935	81	46-150	
Chloroform	ug/kg	ND	1150	1000	87	70-127	
Chloromethane	ug/kg	ND	1150	723	63	51-125	
cis-1,2-Dichloroethene	ug/kg	ND	1150	988	86	68-125	
cis-1,3-Dichloropropene	ug/kg	ND	1150	1020	88	67-126	
Dibromochloromethane	ug/kg	ND	1150	1190	103	66-135	
Dibromomethane	ug/kg	ND	1150	1140	99	68-132	
Dichlorodifluoromethane	ug/kg	ND	1150	564	49	30-138	
Dichlorofluoromethane	ug/kg	ND	1150	991	86	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1150	1060	92	56-135	
Ethylbenzene	ug/kg	ND	1150	1050	92	69-126	
Hexachloro-1,3-butadiene	ug/kg	ND	1150	1070	93	50-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1150	1110	96	65-135	
Methyl-tert-butyl ether	ug/kg	ND	1150	1100	95	66-129	
Methylene Chloride	ug/kg	ND	1150	954	83	64-125	
n-Butylbenzene	ug/kg	ND	1150	1030	90	62-141	
n-Propylbenzene	ug/kg	ND	1150	1060	92	65-135	
Naphthalene	ug/kg	ND	1150	1240	107	62-150	
p-Isopropyltoluene	ug/kg	ND	1150	1090	95	62-139	
sec-Butylbenzene	ug/kg	ND	1150	1070	93	64-137	
Styrene	ug/kg	ND	1150	1080	94	70-132	
tert-Butylbenzene	ug/kg	ND	1150	1090	94	65-136	
Tetrachloroethene	ug/kg	ND	1150	1120	97	61-142	
Tetrahydrofuran	ug/kg	ND	11500	12800	111	68-138	
Toluene	ug/kg	ND	1150	1080	94	66-128	
trans-1,2-Dichloroethene	ug/kg	ND	1150	862	75	63-129	
trans-1,3-Dichloropropene	ug/kg	ND	1150	1040	90	67-132	
Trichloroethene	ug/kg	ND	1150	1040	90	52-150	
Trichlorofluoromethane	ug/kg	ND	1150	1060	92	39-150	
Vinyl chloride	ug/kg	ND	1150	738	64	50-125	
Xylene (Total)	ug/kg	ND	3460	3350	97	70-130	
1,2-Dichloroethane-d4 (S)	%.				93	55-150	
4-Bromofluorobenzene (S)	%.				96	54-131	
Toluene-d8 (S)	%.				102	61-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1928538

Parameter	Units	10300801002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1928538

Parameter	Units	10300801002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	13.9J		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	92	91	2		
4-Bromofluorobenzene (S)	%.	97	97	2		
Toluene-d8 (S)	%.	100	101	0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MSV/30950
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5030 Med Level
Associated Lab Samples: 10300801005

METHOD BLANK: 1929419
Matrix: Solid
Associated Lab Samples: 10300801005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,1,1-Trichloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,1,2-Trichloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	500	04/07/15 18:06	
1,1-Dichloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,1-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:06	
1,1-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:06	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,2,3-Trichloropropane	ug/kg	ND	200	04/07/15 18:06	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	04/07/15 18:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	04/07/15 18:06	
1,2-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,2-Dichloroethane	ug/kg	ND	50.0	04/07/15 18:06	
1,2-Dichloropropane	ug/kg	ND	50.0	04/07/15 18:06	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,3-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
1,3-Dichloropropane	ug/kg	ND	50.0	04/07/15 18:06	
1,4-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
2,2-Dichloropropane	ug/kg	ND	200	04/07/15 18:06	
2-Butanone (MEK)	ug/kg	ND	250	04/07/15 18:06	
2-Chlorotoluene	ug/kg	ND	50.0	04/07/15 18:06	
4-Chlorotoluene	ug/kg	ND	50.0	04/07/15 18:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	04/07/15 18:06	
Acetone	ug/kg	ND	1000	04/07/15 18:06	
Allyl chloride	ug/kg	ND	200	04/07/15 18:06	
Benzene	ug/kg	ND	20.0	04/07/15 18:06	
Bromobenzene	ug/kg	ND	50.0	04/07/15 18:06	
Bromochloromethane	ug/kg	ND	50.0	04/07/15 18:06	
Bromodichloromethane	ug/kg	ND	50.0	04/07/15 18:06	
Bromoform	ug/kg	ND	200	04/07/15 18:06	
Bromomethane	ug/kg	ND	500	04/07/15 18:06	
Carbon tetrachloride	ug/kg	ND	50.0	04/07/15 18:06	
Chlorobenzene	ug/kg	ND	50.0	04/07/15 18:06	
Chloroethane	ug/kg	ND	500	04/07/15 18:06	
Chloroform	ug/kg	ND	50.0	04/07/15 18:06	
Chloromethane	ug/kg	ND	200	04/07/15 18:06	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:06	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:06	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

METHOD BLANK: 1929419 Matrix: Solid
Associated Lab Samples: 10300801005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	04/07/15 18:06	
Dibromomethane	ug/kg	ND	50.0	04/07/15 18:06	
Dichlorodifluoromethane	ug/kg	ND	200	04/07/15 18:06	
Dichlorofluoromethane	ug/kg	ND	500	04/07/15 18:06	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	04/07/15 18:06	
Ethylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
Hexachloro-1,3-butadiene	ug/kg	ND	250	04/07/15 18:06	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	04/07/15 18:06	
Methyl-tert-butyl ether	ug/kg	ND	50.0	04/07/15 18:06	
Methylene Chloride	ug/kg	ND	200	04/07/15 18:06	
n-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
n-Propylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
Naphthalene	ug/kg	ND	200	04/07/15 18:06	
p-Isopropyltoluene	ug/kg	ND	50.0	04/07/15 18:06	
sec-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
Styrene	ug/kg	ND	50.0	04/07/15 18:06	
tert-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:06	
Tetrachloroethene	ug/kg	ND	50.0	04/07/15 18:06	
Tetrahydrofuran	ug/kg	ND	2000	04/07/15 18:06	
Toluene	ug/kg	ND	100	04/07/15 18:06	C0
trans-1,2-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:06	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:06	
Trichloroethene	ug/kg	ND	50.0	04/07/15 18:06	
Trichlorofluoromethane	ug/kg	ND	200	04/07/15 18:06	
Vinyl chloride	ug/kg	ND	20.0	04/07/15 18:06	
Xylene (Total)	ug/kg	ND	150	04/07/15 18:06	
1,2-Dichloroethane-d4 (S)	%.	90	55-150	04/07/15 18:06	
4-Bromofluorobenzene (S)	%.	98	54-131	04/07/15 18:06	
Toluene-d8 (S)	%.	99	61-125	04/07/15 18:06	

LABORATORY CONTROL SAMPLE: 1929420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	990	99	75-125	
1,1,1-Trichloroethane	ug/kg	1000	885	88	66-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	917	92	69-125	
1,1,2-Trichloroethane	ug/kg	1000	988	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1030	103	55-125	
1,1-Dichloroethane	ug/kg	1000	901	90	67-125	
1,1-Dichloroethene	ug/kg	1000	836	84	62-125	
1,1-Dichloropropene	ug/kg	1000	936	94	65-125	
1,2,3-Trichlorobenzene	ug/kg	1000	993	99	58-132	
1,2,3-Trichloropropane	ug/kg	1000	909	91	71-125	
1,2,4-Trichlorobenzene	ug/kg	1000	1020	102	63-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1929420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1010	101	74-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2280	91	55-142	
1,2-Dibromoethane (EDB)	ug/kg	1000	951	95	75-125	
1,2-Dichlorobenzene	ug/kg	1000	992	99	75-125	
1,2-Dichloroethane	ug/kg	1000	889	89	71-125	
1,2-Dichloropropane	ug/kg	1000	939	94	74-125	
1,3,5-Trimethylbenzene	ug/kg	1000	969	97	72-125	
1,3-Dichlorobenzene	ug/kg	1000	994	99	75-125	
1,3-Dichloropropane	ug/kg	1000	975	97	75-125	
1,4-Dichlorobenzene	ug/kg	1000	938	94	75-125	
2,2-Dichloropropane	ug/kg	1000	883	88	45-125	
2-Butanone (MEK)	ug/kg	5000	3590	72	39-136	
2-Chlorotoluene	ug/kg	1000	996	100	73-125	
4-Chlorotoluene	ug/kg	1000	1000	100	74-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4510	90	55-132	
Acetone	ug/kg	5000	5000	100	55-131	
Allyl chloride	ug/kg	1000	826	83	53-125	
Benzene	ug/kg	1000	911	91	69-125	
Bromobenzene	ug/kg	1000	973	97	75-125	
Bromochloromethane	ug/kg	1000	877	88	75-125	
Bromodichloromethane	ug/kg	1000	957	96	75-125	
Bromoform	ug/kg	1000	977	98	71-125	
Bromomethane	ug/kg	1000	664	66	42-150	
Carbon tetrachloride	ug/kg	1000	864	86	62-125	
Chlorobenzene	ug/kg	1000	977	98	75-125	
Chloroethane	ug/kg	1000	876	88	41-150	
Chloroform	ug/kg	1000	870	87	72-125	
Chloromethane	ug/kg	1000	738	74	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	840	84	73-125	
cis-1,3-Dichloropropene	ug/kg	1000	986	99	74-125	
Dibromochloromethane	ug/kg	1000	954	95	75-125	
Dibromomethane	ug/kg	1000	930	93	75-125	
Dichlorodifluoromethane	ug/kg	1000	700	70	30-125	
Dichlorofluoromethane	ug/kg	1000	811	81	30-150	
Diethyl ether (Ethyl ether)	ug/kg	1000	894	89	58-125	
Ethylbenzene	ug/kg	1000	1010	101	72-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1040	104	59-138	
Isopropylbenzene (Cumene)	ug/kg	1000	967	97	72-125	
Methyl-tert-butyl ether	ug/kg	1000	870	87	72-125	
Methylene Chloride	ug/kg	1000	861	86	71-125	
n-Butylbenzene	ug/kg	1000	1020	102	65-125	
n-Propylbenzene	ug/kg	1000	979	98	71-125	
Naphthalene	ug/kg	1000	977	98	55-139	
p-Isopropyltoluene	ug/kg	1000	1000	100	69-125	
sec-Butylbenzene	ug/kg	1000	969	97	68-125	
Styrene	ug/kg	1000	965	97	75-125	
tert-Butylbenzene	ug/kg	1000	964	96	70-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1929420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1040	104	69-125	
Tetrahydrofuran	ug/kg	10000	9810	98	62-129	
Toluene	ug/kg	1000	1050	105	72-125	
trans-1,2-Dichloroethene	ug/kg	1000	921	92	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	969	97	74-125	
Trichloroethene	ug/kg	1000	1020	102	72-125	
Trichlorofluoromethane	ug/kg	1000	836	84	30-150	
Vinyl chloride	ug/kg	1000	694	69	53-125	
Xylene (Total)	ug/kg	3000	3010	100	74-125	
1,2-Dichloroethane-d4 (S)	%.			87	55-150	
4-Bromofluorobenzene (S)	%.			100	54-131	
Toluene-d8 (S)	%.			100	61-125	

MATRIX SPIKE SAMPLE: 1929421

Parameter	Units	10301194001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1150	1130	98	62-150	
1,1,1-Trichloroethane	ug/kg	ND	1150	991	86	58-150	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1150	1180	103	30-150	
1,1,2-Trichloroethane	ug/kg	ND	1150	1180	102	61-149	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1150	1260	110	45-150	
1,1-Dichloroethane	ug/kg	ND	1150	1010	88	56-150	
1,1-Dichloroethene	ug/kg	ND	1150	993	87	48-150	
1,1-Dichloropropene	ug/kg	ND	1150	1040	91	58-150	
1,2,3-Trichlorobenzene	ug/kg	ND	1150	1340	117	55-150	
1,2,3-Trichloropropane	ug/kg	ND	1150	1060	92	57-148	
1,2,4-Trichlorobenzene	ug/kg	ND	1150	1270	111	61-150	
1,2,4-Trimethylbenzene	ug/kg	ND	1150	1210	105	64-150	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2870	3010	105	40-150	
1,2-Dibromoethane (EDB)	ug/kg	ND	1150	1140	99	62-147	
1,2-Dichlorobenzene	ug/kg	ND	1150	1230	107	73-133	
1,2-Dichloroethane	ug/kg	ND	1150	1010	88	63-132	
1,2-Dichloropropane	ug/kg	ND	1150	1130	98	69-127	
1,3,5-Trimethylbenzene	ug/kg	ND	1150	1140	99	63-137	
1,3-Dichlorobenzene	ug/kg	ND	1150	1180	103	69-133	
1,3-Dichloropropane	ug/kg	ND	1150	1150	100	70-130	
1,4-Dichlorobenzene	ug/kg	ND	1150	1120	97	69-130	
2,2-Dichloropropane	ug/kg	ND	1150	999	87	54-135	
2-Butanone (MEK)	ug/kg	ND	5730	4760	83	49-145	
2-Chlorotoluene	ug/kg	ND	1150	1210	105	68-129	
4-Chlorotoluene	ug/kg	ND	1150	1150	100	67-134	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5730	5610	98	60-150	
Acetone	ug/kg	ND	5730	5890	103	65-135	
Allyl chloride	ug/kg	ND	1150	981	86	55-126	
Benzene	ug/kg	ND	1150	1030	89	63-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

MATRIX SPIKE SAMPLE: 1929421

Parameter	Units	10301194001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1150	1120	97	68-133	
Bromochloromethane	ug/kg	ND	1150	955	83	66-130	
Bromodichloromethane	ug/kg	ND	1150	1170	102	68-129	
Bromoform	ug/kg	ND	1150	1200	104	63-135	
Bromomethane	ug/kg	ND	1150	895	78	30-150	
Carbon tetrachloride	ug/kg	ND	1150	1010	88	56-140	
Chlorobenzene	ug/kg	ND	1150	1120	98	69-130	
Chloroethane	ug/kg	ND	1150	943	82	46-150	
Chloroform	ug/kg	ND	1150	1010	87	70-127	
Chloromethane	ug/kg	ND	1150	749	65	51-125	
cis-1,2-Dichloroethene	ug/kg	ND	1150	993	87	68-125	
cis-1,3-Dichloropropene	ug/kg	ND	1150	1160	101	67-126	
Dibromochloromethane	ug/kg	ND	1150	1130	98	66-135	
Dibromomethane	ug/kg	ND	1150	1060	93	68-132	
Dichlorodifluoromethane	ug/kg	ND	1150	589	51	30-138	
Dichlorofluoromethane	ug/kg	ND	1150	993	87	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1150	971	85	56-135	
Ethylbenzene	ug/kg	ND	1150	1150	100	69-126	
Hexachloro-1,3-butadiene	ug/kg	ND	1150	1350	118	50-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1150	1160	101	65-135	
Methyl-tert-butyl ether	ug/kg	ND	1150	1030	89	66-129	
Methylene Chloride	ug/kg	ND	1150	993	87	64-125	
n-Butylbenzene	ug/kg	ND	1150	1260	110	62-141	
n-Propylbenzene	ug/kg	ND	1150	1160	101	65-135	
Naphthalene	ug/kg	ND	1150	1320	114	62-150	
p-Isopropyltoluene	ug/kg	ND	1150	1220	106	62-139	
sec-Butylbenzene	ug/kg	ND	1150	1180	103	64-137	
Styrene	ug/kg	ND	1150	1140	100	70-132	
tert-Butylbenzene	ug/kg	ND	1150	1170	102	65-136	
Tetrachloroethene	ug/kg	ND	1150	1230	107	61-142	
Tetrahydrofuran	ug/kg	ND	11500	11100	97	68-138	
Toluene	ug/kg	ND	1150	1190	100	66-128	
trans-1,2-Dichloroethene	ug/kg	ND	1150	1050	92	63-129	
trans-1,3-Dichloropropene	ug/kg	ND	1150	1100	96	67-132	
Trichloroethene	ug/kg	ND	1150	1150	100	52-150	
Trichlorofluoromethane	ug/kg	ND	1150	1080	94	39-150	
Vinyl chloride	ug/kg	ND	1150	719	63	50-125	
Xylene (Total)	ug/kg	ND	3440	3540	103	70-130	
1,2-Dichloroethane-d4 (S)	%.				85	55-150	
4-Bromofluorobenzene (S)	%.				99	54-131	
Toluene-d8 (S)	%.				99	61-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1929422

Parameter	Units	10301194002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1929422

Parameter	Units	10301194002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	45.8J		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	86	88	1		
4-Bromofluorobenzene (S)	%.	103	101	4		
Toluene-d8 (S)	%.	102	102	2		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MSV/30970 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
Associated Lab Samples: 10300801008

METHOD BLANK: 1930731 Matrix: Solid
Associated Lab Samples: 10300801008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,1,1-Trichloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,1,2-Trichloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	500	04/07/15 18:27	
1,1-Dichloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,1-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:27	
1,1-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:27	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,2,3-Trichloropropane	ug/kg	ND	200	04/07/15 18:27	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	04/07/15 18:27	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	04/07/15 18:27	
1,2-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,2-Dichloroethane	ug/kg	ND	50.0	04/07/15 18:27	
1,2-Dichloropropane	ug/kg	ND	50.0	04/07/15 18:27	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,3-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
1,3-Dichloropropane	ug/kg	ND	50.0	04/07/15 18:27	
1,4-Dichlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
2,2-Dichloropropane	ug/kg	ND	200	04/07/15 18:27	
2-Butanone (MEK)	ug/kg	ND	250	04/07/15 18:27	
2-Chlorotoluene	ug/kg	ND	50.0	04/07/15 18:27	
4-Chlorotoluene	ug/kg	ND	50.0	04/07/15 18:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	04/07/15 18:27	
Acetone	ug/kg	ND	1000	04/07/15 18:27	
Allyl chloride	ug/kg	ND	200	04/07/15 18:27	
Benzene	ug/kg	ND	20.0	04/07/15 18:27	
Bromobenzene	ug/kg	ND	50.0	04/07/15 18:27	
Bromochloromethane	ug/kg	ND	50.0	04/07/15 18:27	
Bromodichloromethane	ug/kg	ND	50.0	04/07/15 18:27	
Bromoform	ug/kg	ND	200	04/07/15 18:27	
Bromomethane	ug/kg	ND	500	04/07/15 18:27	
Carbon tetrachloride	ug/kg	ND	50.0	04/07/15 18:27	
Chlorobenzene	ug/kg	ND	50.0	04/07/15 18:27	
Chloroethane	ug/kg	ND	500	04/07/15 18:27	
Chloroform	ug/kg	ND	50.0	04/07/15 18:27	
Chloromethane	ug/kg	ND	200	04/07/15 18:27	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:27	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:27	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

METHOD BLANK: 1930731 Matrix: Solid
Associated Lab Samples: 10300801008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	04/07/15 18:27	
Dibromomethane	ug/kg	ND	50.0	04/07/15 18:27	
Dichlorodifluoromethane	ug/kg	ND	200	04/07/15 18:27	
Dichlorofluoromethane	ug/kg	ND	500	04/07/15 18:27	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	04/07/15 18:27	
Ethylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
Hexachloro-1,3-butadiene	ug/kg	ND	250	04/07/15 18:27	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	04/07/15 18:27	
Methyl-tert-butyl ether	ug/kg	ND	50.0	04/07/15 18:27	
Methylene Chloride	ug/kg	ND	200	04/07/15 18:27	
n-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
n-Propylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
Naphthalene	ug/kg	ND	200	04/07/15 18:27	
p-Isopropyltoluene	ug/kg	ND	50.0	04/07/15 18:27	
sec-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
Styrene	ug/kg	ND	50.0	04/07/15 18:27	
tert-Butylbenzene	ug/kg	ND	50.0	04/07/15 18:27	
Tetrachloroethene	ug/kg	ND	50.0	04/07/15 18:27	
Tetrahydrofuran	ug/kg	ND	2000	04/07/15 18:27	
Toluene	ug/kg	ND	100	04/07/15 18:27	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	04/07/15 18:27	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	04/07/15 18:27	
Trichloroethene	ug/kg	ND	50.0	04/07/15 18:27	
Trichlorofluoromethane	ug/kg	ND	200	04/07/15 18:27	
Vinyl chloride	ug/kg	ND	20.0	04/07/15 18:27	
Xylene (Total)	ug/kg	ND	150	04/07/15 18:27	
1,2-Dichloroethane-d4 (S)	%.	88	55-150	04/07/15 18:27	
4-Bromofluorobenzene (S)	%.	100	54-131	04/07/15 18:27	
Toluene-d8 (S)	%.	101	61-125	04/07/15 18:27	

LABORATORY CONTROL SAMPLE: 1930732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1070	107	75-125	
1,1,1-Trichloroethane	ug/kg	1000	913	91	66-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	957	96	69-125	
1,1,2-Trichloroethane	ug/kg	1000	1020	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1310	131	55-125	L0
1,1-Dichloroethane	ug/kg	1000	905	91	67-125	
1,1-Dichloroethene	ug/kg	1000	923	92	62-125	
1,1-Dichloropropene	ug/kg	1000	967	97	65-125	
1,2,3-Trichlorobenzene	ug/kg	1000	1040	104	58-132	
1,2,3-Trichloropropane	ug/kg	1000	952	95	71-125	
1,2,4-Trichlorobenzene	ug/kg	1000	1100	110	63-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1930732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	103	74-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2560	102	55-142	
1,2-Dibromoethane (EDB)	ug/kg	1000	1020	102	75-125	
1,2-Dichlorobenzene	ug/kg	1000	1000	100	75-125	
1,2-Dichloroethane	ug/kg	1000	906	91	71-125	
1,2-Dichloropropane	ug/kg	1000	927	93	74-125	
1,3,5-Trimethylbenzene	ug/kg	1000	973	97	72-125	
1,3-Dichlorobenzene	ug/kg	1000	1020	102	75-125	
1,3-Dichloropropane	ug/kg	1000	1030	103	75-125	
1,4-Dichlorobenzene	ug/kg	1000	937	94	75-125	
2,2-Dichloropropane	ug/kg	1000	878	88	45-125	
2-Butanone (MEK)	ug/kg	5000	4310	86	39-136	
2-Chlorotoluene	ug/kg	1000	1030	103	73-125	
4-Chlorotoluene	ug/kg	1000	995	100	74-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5090	102	55-132	
Acetone	ug/kg	5000	4840	97	55-131	
Allyl chloride	ug/kg	1000	912	91	53-125	
Benzene	ug/kg	1000	916	92	69-125	
Bromobenzene	ug/kg	1000	986	99	75-125	
Bromochloromethane	ug/kg	1000	880	88	75-125	
Bromodichloromethane	ug/kg	1000	1020	102	75-125	
Bromoform	ug/kg	1000	1030	103	71-125	
Bromomethane	ug/kg	1000	753	75	42-150	
Carbon tetrachloride	ug/kg	1000	929	93	62-125	
Chlorobenzene	ug/kg	1000	988	99	75-125	
Chloroethane	ug/kg	1000	920	92	41-150	
Chloroform	ug/kg	1000	888	89	72-125	
Chloromethane	ug/kg	1000	738	74	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	884	88	73-125	
cis-1,3-Dichloropropene	ug/kg	1000	983	98	74-125	
Dibromochloromethane	ug/kg	1000	1020	102	75-125	
Dibromomethane	ug/kg	1000	984	98	75-125	
Dichlorodifluoromethane	ug/kg	1000	826	83	30-125	
Dichlorofluoromethane	ug/kg	1000	932	93	30-150	
Diethyl ether (Ethyl ether)	ug/kg	1000	975	98	58-125	
Ethylbenzene	ug/kg	1000	1030	103	72-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1060	106	59-138	
Isopropylbenzene (Cumene)	ug/kg	1000	1000	100	72-125	
Methyl-tert-butyl ether	ug/kg	1000	924	92	72-125	
Methylene Chloride	ug/kg	1000	908	91	71-125	
n-Butylbenzene	ug/kg	1000	1020	102	65-125	
n-Propylbenzene	ug/kg	1000	985	98	71-125	
Naphthalene	ug/kg	1000	1090	109	55-139	
p-Isopropyltoluene	ug/kg	1000	1030	103	69-125	
sec-Butylbenzene	ug/kg	1000	947	95	68-125	
Styrene	ug/kg	1000	1030	103	75-125	
tert-Butylbenzene	ug/kg	1000	953	95	70-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1930732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1050	105	69-125	
Tetrahydrofuran	ug/kg	10000	10200	102	62-129	
Toluene	ug/kg	1000	1030	103	72-125	
trans-1,2-Dichloroethene	ug/kg	1000	963	96	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	1000	100	74-125	
Trichloroethene	ug/kg	1000	997	100	72-125	
Trichlorofluoromethane	ug/kg	1000	1120	112	30-150	
Vinyl chloride	ug/kg	1000	716	72	53-125	
Xylene (Total)	ug/kg	3000	3130	104	74-125	
1,2-Dichloroethane-d4 (S)	%.			85	55-150	
4-Bromofluorobenzene (S)	%.			99	54-131	
Toluene-d8 (S)	%.			99	61-125	

MATRIX SPIKE SAMPLE: 1931019

Parameter	Units	10301299001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1090	389	36	62-150	M1
1,1,1-Trichloroethane	ug/kg	ND	1090	343	32	58-150	M1
1,1,2,2-Tetrachloroethane	ug/kg	ND	1090	366	34	30-150	
1,1,2-Trichloroethane	ug/kg	ND	1090	392	36	61-149	M1
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1090	362J	33	45-150	M0
1,1-Dichloroethane	ug/kg	ND	1090	364	33	56-150	M1
1,1-Dichloroethene	ug/kg	ND	1090	326	30	48-150	M1
1,1-Dichloropropene	ug/kg	ND	1090	363	33	58-150	M1
1,2,3-Trichlorobenzene	ug/kg	ND	1090	398	37	55-150	M1
1,2,3-Trichloropropane	ug/kg	ND	1090	330	30	57-148	M1
1,2,4-Trichlorobenzene	ug/kg	ND	1090	409	38	61-150	M1
1,2,4-Trimethylbenzene	ug/kg	ND	1090	387	36	64-150	M1
1,2-Dibromo-3-chloropropane	ug/kg	ND	2730	807	30	40-150	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	1090	362	33	62-147	M1
1,2-Dichlorobenzene	ug/kg	ND	1090	378	35	73-133	M1
1,2-Dichloroethane	ug/kg	ND	1090	364	33	63-132	M1
1,2-Dichloropropane	ug/kg	ND	1090	376	35	69-127	M1
1,3,5-Trimethylbenzene	ug/kg	ND	1090	346	32	63-137	M1
1,3-Dichlorobenzene	ug/kg	ND	1090	396	36	69-133	M1
1,3-Dichloropropane	ug/kg	ND	1090	404	37	70-130	M1
1,4-Dichlorobenzene	ug/kg	ND	1090	373	34	69-130	M1
2,2-Dichloropropane	ug/kg	ND	1090	323	30	54-135	M1
2-Butanone (MEK)	ug/kg	ND	5440	1380	25	49-145	M1
2-Chlorotoluene	ug/kg	ND	1090	370	34	68-129	M1
4-Chlorotoluene	ug/kg	ND	1090	350	32	67-134	M1
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5440	1650	30	60-150	M1
Acetone	ug/kg	ND	5440	1970	36	65-135	M1
Allyl chloride	ug/kg	ND	1090	333	31	55-126	M1
Benzene	ug/kg	ND	1090	351	32	63-126	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

MATRIX SPIKE SAMPLE: 1931019

Parameter	Units	10301299001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1090	382	35	68-133	M1
Bromochloromethane	ug/kg	ND	1090	350	32	66-130	M1
Bromodichloromethane	ug/kg	ND	1090	388	36	68-129	M1
Bromoform	ug/kg	ND	1090	389	36	63-135	M1
Bromomethane	ug/kg	ND	1090	364J	33	30-150	
Carbon tetrachloride	ug/kg	ND	1090	320	29	56-140	M1
Chlorobenzene	ug/kg	ND	1090	389	36	69-130	M1
Chloroethane	ug/kg	ND	1090	267J	25	46-150	M1
Chloroform	ug/kg	ND	1090	345	31	70-127	M1
Chloromethane	ug/kg	ND	1090	291	27	51-125	M1
cis-1,2-Dichloroethene	ug/kg	ND	1090	340	31	68-125	M1
cis-1,3-Dichloropropene	ug/kg	ND	1090	374	34	67-126	M1
Dibromochloromethane	ug/kg	ND	1090	374	34	66-135	M1
Dibromomethane	ug/kg	ND	1090	360	33	68-132	M1
Dichlorodifluoromethane	ug/kg	ND	1090	234	21	30-138	M1
Dichlorofluoromethane	ug/kg	ND	1090	325J	30	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1090	339	31	56-135	M1
Ethylbenzene	ug/kg	ND	1090	380	35	69-126	M1
Hexachloro-1,3-butadiene	ug/kg	ND	1090	334	31	50-150	M1
Isopropylbenzene (Cumene)	ug/kg	ND	1090	384	35	65-135	M1
Methyl-tert-butyl ether	ug/kg	ND	1090	327	30	66-129	M1
Methylene Chloride	ug/kg	ND	1090	390	36	64-125	M1
n-Butylbenzene	ug/kg	ND	1090	351	32	62-141	M1
n-Propylbenzene	ug/kg	ND	1090	375	34	65-135	M1
Naphthalene	ug/kg	ND	1090	329	30	62-150	M1
p-Isopropyltoluene	ug/kg	ND	1090	348	32	62-139	M1
sec-Butylbenzene	ug/kg	ND	1090	346	32	64-137	M1
Styrene	ug/kg	ND	1090	369	34	70-132	M1
tert-Butylbenzene	ug/kg	ND	1090	340	31	65-136	M1
Tetrachloroethene	ug/kg	ND	1090	357	33	61-142	M1
Tetrahydrofuran	ug/kg	ND	10900	4060	37	68-138	M1
Toluene	ug/kg	ND	1090	424	36	66-128	M1
trans-1,2-Dichloroethene	ug/kg	ND	1090	351	32	63-129	M1
trans-1,3-Dichloropropene	ug/kg	ND	1090	359	33	67-132	M1
Trichloroethene	ug/kg	ND	1090	374	34	52-150	M1
Trichlorofluoromethane	ug/kg	ND	1090	272	25	39-150	M1
Vinyl chloride	ug/kg	ND	1090	271	25	50-125	M1
Xylene (Total)	ug/kg	ND	3270	1190	36	70-130	MS
1,2-Dichloroethane-d4 (S)	%.				86	55-150	
4-Bromofluorobenzene (S)	%.				95	54-131	
Toluene-d8 (S)	%.				99	61-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1931020

Parameter	Units	10301179001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	13.9J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

SAMPLE DUPLICATE: 1931020

Parameter	Units	10301179001 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	37.3J		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	87	89	23		
4-Bromofluorobenzene (S)	%.	98	100	23		
Toluene-d8 (S)	%.	101	101	25		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MSV/30960 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10300802002, 10300802003, 10300802005

METHOD BLANK: 1929706 Matrix: Water
Associated Lab Samples: 10300802002, 10300802003, 10300802005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1-Dichloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,1-Dichloroethene	ug/L	ND	1.0	04/08/15 16:31	
1,1-Dichloropropene	ug/L	ND	1.0	04/08/15 16:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/08/15 16:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/08/15 16:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/08/15 16:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/08/15 16:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
1,2-Dichloroethane	ug/L	ND	1.0	04/08/15 16:31	
1,2-Dichloropropane	ug/L	ND	4.0	04/08/15 16:31	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/08/15 16:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
1,3-Dichloropropane	ug/L	ND	1.0	04/08/15 16:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
2,2-Dichloropropane	ug/L	ND	4.0	04/08/15 16:31	
2-Butanone (MEK)	ug/L	ND	5.0	04/08/15 16:31	
2-Chlorotoluene	ug/L	ND	1.0	04/08/15 16:31	
4-Chlorotoluene	ug/L	ND	1.0	04/08/15 16:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/08/15 16:31	
Acetone	ug/L	ND	20.0	04/08/15 16:31	
Allyl chloride	ug/L	ND	4.0	04/08/15 16:31	
Benzene	ug/L	ND	1.0	04/08/15 16:31	
Bromobenzene	ug/L	ND	1.0	04/08/15 16:31	
Bromochloromethane	ug/L	ND	1.0	04/08/15 16:31	
Bromodichloromethane	ug/L	ND	1.0	04/08/15 16:31	
Bromoform	ug/L	ND	4.0	04/08/15 16:31	
Bromomethane	ug/L	ND	4.0	04/08/15 16:31	
Carbon tetrachloride	ug/L	ND	1.0	04/08/15 16:31	
Chlorobenzene	ug/L	ND	1.0	04/08/15 16:31	
Chloroethane	ug/L	ND	1.0	04/08/15 16:31	
Chloroform	ug/L	ND	1.0	04/08/15 16:31	
Chloromethane	ug/L	ND	4.0	04/08/15 16:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/08/15 16:31	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/08/15 16:31	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

METHOD BLANK: 1929706 Matrix: Water
Associated Lab Samples: 10300802002, 10300802003, 10300802005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	04/08/15 16:31	
Dibromomethane	ug/L	ND	4.0	04/08/15 16:31	
Dichlorodifluoromethane	ug/L	ND	1.0	04/08/15 16:31	
Dichlorofluoromethane	ug/L	ND	1.0	04/08/15 16:31	
Diethyl ether (Ethyl ether)	ug/L	ND	10.0	04/08/15 16:31	
Ethylbenzene	ug/L	ND	1.0	04/08/15 16:31	
Hexachloro-1,3-butadiene	ug/L	3.3	1.0	04/08/15 16:31	CH
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/08/15 16:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/08/15 16:31	
Methylene Chloride	ug/L	ND	4.0	04/08/15 16:31	
n-Butylbenzene	ug/L	ND	1.0	04/08/15 16:31	
n-Propylbenzene	ug/L	ND	1.0	04/08/15 16:31	
Naphthalene	ug/L	ND	4.0	04/08/15 16:31	
p-Isopropyltoluene	ug/L	ND	1.0	04/08/15 16:31	
sec-Butylbenzene	ug/L	ND	1.0	04/08/15 16:31	
Styrene	ug/L	ND	1.0	04/08/15 16:31	
tert-Butylbenzene	ug/L	ND	1.0	04/08/15 16:31	
Tetrachloroethene	ug/L	ND	1.0	04/08/15 16:31	
Tetrahydrofuran	ug/L	ND	10.0	04/08/15 16:31	
Toluene	ug/L	ND	1.0	04/08/15 16:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/08/15 16:31	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/08/15 16:31	
Trichloroethene	ug/L	ND	0.40	04/08/15 16:31	
Trichlorofluoromethane	ug/L	ND	1.0	04/08/15 16:31	
Vinyl chloride	ug/L	ND	0.40	04/08/15 16:31	
Xylene (Total)	ug/L	ND	3.0	04/08/15 16:31	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	04/08/15 16:31	
4-Bromofluorobenzene (S)	%.	103	75-125	04/08/15 16:31	
Toluene-d8 (S)	%.	100	75-125	04/08/15 16:31	

LABORATORY CONTROL SAMPLE: 1929707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	103	75-125	
1,1,1-Trichloroethane	ug/L	20	19.4	97	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	75-125	
1,1,2-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.5	98	60-135	
1,1-Dichloroethane	ug/L	20	20.4	102	69-125	
1,1-Dichloroethene	ug/L	20	18.7	93	68-125	
1,1-Dichloropropene	ug/L	20	21.9	110	74-125	
1,2,3-Trichlorobenzene	ug/L	20	26.7	134	69-136	
1,2,3-Trichloropropane	ug/L	20	22.0	110	75-125	
1,2,4-Trichlorobenzene	ug/L	20	24.2	121	73-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1929707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	22.6	113	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	57.0	114	65-145	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	103	75-125	
1,2-Dichlorobenzene	ug/L	20	21.5	107	75-125	
1,2-Dichloroethane	ug/L	20	20.5	103	73-125	
1,2-Dichloropropane	ug/L	20	20.7	104	75-125	
1,3,5-Trimethylbenzene	ug/L	20	22.1	111	75-125	
1,3-Dichlorobenzene	ug/L	20	20.9	105	74-125	
1,3-Dichloropropane	ug/L	20	21.0	105	75-125	
1,4-Dichlorobenzene	ug/L	20	20.4	102	75-125	
2,2-Dichloropropane	ug/L	20	19.6	98	59-139	
2-Butanone (MEK)	ug/L	100	100	100	63-130	
2-Chlorotoluene	ug/L	20	20.1	101	72-125	
4-Chlorotoluene	ug/L	20	20.3	101	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.2	99	71-126	
Acetone	ug/L	100	96.8	97	69-131	
Allyl chloride	ug/L	20	20.9	105	67-125	
Benzene	ug/L	20	19.6	98	71-125	
Bromobenzene	ug/L	20	21.7	108	75-125	
Bromochloromethane	ug/L	20	22.2	111	75-125	
Bromodichloromethane	ug/L	20	19.2	96	75-125	
Bromoform	ug/L	20	20.9	105	70-125	
Bromomethane	ug/L	20	26.7	133	30-150	
Carbon tetrachloride	ug/L	20	22.5	113	75-126	
Chlorobenzene	ug/L	20	20.2	101	75-125	
Chloroethane	ug/L	20	20.2	101	65-134	
Chloroform	ug/L	20	20.1	100	75-125	
Chloromethane	ug/L	20	25.2	126	39-150	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	72-125	
cis-1,3-Dichloropropene	ug/L	20	21.3	106	75-125	
Dibromochloromethane	ug/L	20	20.9	104	75-125	
Dibromomethane	ug/L	20	22.3	112	75-125	
Dichlorodifluoromethane	ug/L	20	22.5	112	50-134	
Dichlorofluoromethane	ug/L	20	20.0	100	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	21.7	108	72-125	
Ethylbenzene	ug/L	20	20.5	103	75-125	
Hexachloro-1,3-butadiene	ug/L	20	29.5	148	70-138	CH,L0
Isopropylbenzene (Cumene)	ug/L	20	22.6	113	75-125	
Methyl-tert-butyl ether	ug/L	20	20.2	101	73-125	
Methylene Chloride	ug/L	20	22.4	112	73-125	
n-Butylbenzene	ug/L	20	26.6	133	72-133	
n-Propylbenzene	ug/L	20	21.5	107	72-126	
Naphthalene	ug/L	20	21.9	110	70-127	
p-Isopropyltoluene	ug/L	20	26.9	135	72-132	L0
sec-Butylbenzene	ug/L	20	27.2	136	73-132	L0
Styrene	ug/L	20	21.9	110	75-125	
tert-Butylbenzene	ug/L	20	22.0	110	73-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1929707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	19.9	100	74-125	
Tetrahydrofuran	ug/L	200	212	106	62-133	
Toluene	ug/L	20	20.3	102	74-125	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	69-125	
trans-1,3-Dichloropropene	ug/L	20	20.6	103	75-125	
Trichloroethene	ug/L	20	20.2	101	75-125	
Trichlorofluoromethane	ug/L	20	20.4	102	74-127	
Vinyl chloride	ug/L	20	22.8	114	66-132	
Xylene (Total)	ug/L	60	59.6	99	75-125	
1,2-Dichloroethane-d4 (S)	%.			105	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936066 1936067

Parameter	Units	10302089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	204	207	102	103	70-138	1	30	
1,1,1-Trichloroethane	ug/L	ND	200	200	192	190	96	95	55-150	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	197	199	98	100	64-140	1	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	201	101	100	67-137	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	202	201	101	101	51-150	0	30	
1,1-Dichloroethane	ug/L	ND	200	200	199	187	99	94	49-150	6	30	
1,1-Dichloroethene	ug/L	ND	200	200	191	183	96	92	40-150	4	30	
1,1-Dichloropropene	ug/L	ND	200	200	196	193	98	96	50-150	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	214	236	107	118	59-148	10	30	
1,2,3-Trichloropropane	ug/L	ND	200	200	223	220	112	110	65-141	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	195	212	97	106	61-140	8	30	
1,2,4-Trimethylbenzene	ug/L	111	200	200	308	307	98	98	58-141	0	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	550	581	110	116	53-150	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	201	208	101	104	65-137	3	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	209	206	104	103	66-133	1	30	
1,2-Dichloroethane	ug/L	ND	200	200	194	193	97	97	54-138	0	30	
1,2-Dichloropropane	ug/L	ND	200	200	201	195	101	98	62-138	3	30	
1,3,5-Trimethylbenzene	ug/L	50.3	200	200	254	251	102	100	58-140	1	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	204	103	102	66-132	0	30	
1,3-Dichloropropane	ug/L	ND	200	200	201	205	101	103	66-134	2	30	
1,4-Dichlorobenzene	ug/L	ND	200	200	201	198	100	99	65-129	1	30	
2,2-Dichloropropane	ug/L	ND	200	200	194	183	97	92	40-150	6	30	
2-Butanone (MEK)	ug/L	ND	1000	1000	1000	1040	100	104	51-147	4	30	
2-Chlorotoluene	ug/L	ND	200	200	205	200	102	100	58-147	2	30	
4-Chlorotoluene	ug/L	ND	200	200	200	195	100	97	64-138	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	954	1020	95	102	59-143	7	30	
Acetone	ug/L	ND	1000	1000	1110	1170	107	113	63-147	5	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936066 1936067

Parameter	Units	10302089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	200	200	175	171	88	85	45-150	2	30	
Benzene	ug/L	1660	200	200	1850	1780	96	58	53-139	4	30	
Bromobenzene	ug/L	ND	200	200	214	209	107	105	66-136	2	30	
Bromochloromethane	ug/L	ND	200	200	208	198	104	99	64-136	5	30	
Bromodichloromethane	ug/L	ND	200	200	186	192	93	96	66-138	3	30	
Bromoform	ug/L	ND	200	200	202	209	101	104	59-136	3	30	
Bromomethane	ug/L	ND	200	200	220	206	110	103	30-150	7	30	
Carbon tetrachloride	ug/L	ND	200	200	210	202	105	101	56-150	4	30	
Chlorobenzene	ug/L	ND	200	200	201	197	101	99	65-133	2	30	
Chloroethane	ug/L	ND	200	200	196	186	98	93	48-150	5	30	
Chloroform	ug/L	ND	200	200	200	187	100	93	57-145	7	30	
Chloromethane	ug/L	ND	200	200	205	215	103	108	30-150	5	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	196	193	98	96	49-150	2	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	201	202	100	101	64-130	1	30	
Dibromochloromethane	ug/L	ND	200	200	204	212	102	106	68-138	4	30	
Dibromomethane	ug/L	ND	200	200	212	210	106	105	67-134	1	30	
Dichlorodifluoromethane	ug/L	ND	200	200	200	189	100	94	45-150	6	30	
Dichlorofluoromethane	ug/L	ND	200	200	191	185	96	92	54-150	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	206	199	103	99	50-145	4	30	
Ethylbenzene	ug/L	117	200	200	309	301	96	92	55-139	3	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	210	215	105	107	49-150	2	30	CH
Isopropylbenzene (Cumene)	ug/L	15.9	200	200	225	220	105	102	64-142	2	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	191	192	96	96	62-129	0	30	
Methylene Chloride	ug/L	ND	200	200	196	185	98	93	57-132	5	30	
n-Butylbenzene	ug/L	16.8	200	200	227	235	105	109	55-150	4	30	
n-Propylbenzene	ug/L	29.9	200	200	229	228	100	99	59-142	1	30	
Naphthalene	ug/L	ND	200	200	229	252	103	114	51-150	9	30	
p-Isopropyltoluene	ug/L	ND	200	200	247	256	120	125	60-149	4	30	
sec-Butylbenzene	ug/L	12.8	200	200	227	230	107	109	60-150	1	30	
Styrene	ug/L	ND	200	200	209	207	104	103	68-134	1	30	
tert-Butylbenzene	ug/L	ND	200	200	200	198	100	99	62-146	1	30	
Tetrachloroethene	ug/L	ND	200	200	199	192	99	96	50-150	3	30	
Tetrahydrofuran	ug/L	ND	2000	2000	2200	2150	110	107	59-145	2	30	
Toluene	ug/L	33.9	200	200	230	227	98	97	52-148	1	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	195	190	97	95	45-150	3	30	
trans-1,3-Dichloropropene	ug/L	ND	200	200	199	204	100	102	68-132	2	30	
Trichloroethene	ug/L	ND	200	200	204	196	102	98	52-150	4	30	
Trichlorofluoromethane	ug/L	ND	200	200	192	187	96	93	55-150	3	30	
Vinyl chloride	ug/L	ND	200	200	192	186	96	93	43-150	3	30	
Xylene (Total)	ug/L	227	600	600	805	790	96	94	54-144	2	30	
1,2-Dichloroethane-d4 (S)	%.						99	97	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						100	101	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: MSV/31022 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10300802001, 10300802004, 10300802006, 10300802007

METHOD BLANK: 1934951 Matrix: Water
Associated Lab Samples: 10300802001, 10300802004, 10300802006, 10300802007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1-Dichloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,1-Dichloroethene	ug/L	ND	1.0	04/04/15 00:47	
1,1-Dichloropropene	ug/L	ND	1.0	04/04/15 00:47	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/04/15 00:47	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/04/15 00:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/04/15 00:47	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/04/15 00:47	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/04/15 00:47	
1,2-Dichloropropane	ug/L	ND	4.0	04/04/15 00:47	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/04/15 00:47	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
1,3-Dichloropropane	ug/L	ND	1.0	04/04/15 00:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
2,2-Dichloropropane	ug/L	ND	4.0	04/04/15 00:47	
2-Butanone (MEK)	ug/L	ND	5.0	04/04/15 00:47	
2-Chlorotoluene	ug/L	ND	1.0	04/04/15 00:47	
4-Chlorotoluene	ug/L	ND	1.0	04/04/15 00:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/04/15 00:47	
Acetone	ug/L	ND	20.0	04/04/15 00:47	
Allyl chloride	ug/L	ND	4.0	04/04/15 00:47	
Benzene	ug/L	ND	1.0	04/04/15 00:47	
Bromobenzene	ug/L	ND	1.0	04/04/15 00:47	
Bromochloromethane	ug/L	ND	4.0	04/04/15 00:47	
Bromodichloromethane	ug/L	ND	1.0	04/04/15 00:47	
Bromoform	ug/L	ND	4.0	04/04/15 00:47	
Bromomethane	ug/L	ND	4.0	04/04/15 00:47	
Carbon tetrachloride	ug/L	ND	1.0	04/04/15 00:47	
Chlorobenzene	ug/L	ND	1.0	04/04/15 00:47	
Chloroethane	ug/L	ND	1.0	04/04/15 00:47	
Chloroform	ug/L	ND	1.0	04/04/15 00:47	
Chloromethane	ug/L	ND	4.0	04/04/15 00:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/04/15 00:47	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/04/15 00:47	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

METHOD BLANK: 1934951 Matrix: Water
Associated Lab Samples: 10300802001, 10300802004, 10300802006, 10300802007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	04/04/15 00:47	
Dibromomethane	ug/L	ND	4.0	04/04/15 00:47	
Dichlorodifluoromethane	ug/L	ND	4.0	04/04/15 00:47	
Dichlorofluoromethane	ug/L	ND	1.0	04/04/15 00:47	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/04/15 00:47	
Ethylbenzene	ug/L	ND	1.0	04/04/15 00:47	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/04/15 00:47	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/04/15 00:47	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/04/15 00:47	
Methylene Chloride	ug/L	ND	4.0	04/04/15 00:47	
n-Butylbenzene	ug/L	ND	1.0	04/04/15 00:47	
n-Propylbenzene	ug/L	ND	1.0	04/04/15 00:47	
Naphthalene	ug/L	ND	4.0	04/04/15 00:47	
p-Isopropyltoluene	ug/L	ND	1.0	04/04/15 00:47	
sec-Butylbenzene	ug/L	ND	1.0	04/04/15 00:47	
Styrene	ug/L	ND	1.0	04/04/15 00:47	
tert-Butylbenzene	ug/L	ND	1.0	04/04/15 00:47	
Tetrachloroethene	ug/L	ND	1.0	04/04/15 00:47	
Tetrahydrofuran	ug/L	ND	10.0	04/04/15 00:47	
Toluene	ug/L	ND	1.0	04/04/15 00:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/04/15 00:47	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/04/15 00:47	
Trichloroethene	ug/L	ND	0.40	04/04/15 00:47	
Trichlorofluoromethane	ug/L	ND	1.0	04/04/15 00:47	
Vinyl chloride	ug/L	ND	0.40	04/04/15 00:47	
Xylene (Total)	ug/L	ND	3.0	04/04/15 00:47	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	04/04/15 00:47	
4-Bromofluorobenzene (S)	%.	101	75-125	04/04/15 00:47	
Toluene-d8 (S)	%.	99	75-125	04/04/15 00:47	

LABORATORY CONTROL SAMPLE: 1934952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	75-125	
1,1,1-Trichloroethane	ug/L	20	18.1	91	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	91	75-125	
1,1,2-Trichloroethane	ug/L	20	17.0	85	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.5	97	60-135	
1,1-Dichloroethane	ug/L	20	16.6	83	69-125	
1,1-Dichloroethene	ug/L	20	18.1	90	68-125	
1,1-Dichloropropene	ug/L	20	18.9	94	74-125	
1,2,3-Trichlorobenzene	ug/L	20	16.1	80	69-136	
1,2,3-Trichloropropane	ug/L	20	18.9	95	75-125	
1,2,4-Trichlorobenzene	ug/L	20	14.9	75	73-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1934952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	17.4	87	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	40.0	80	65-145	
1,2-Dibromoethane (EDB)	ug/L	20	17.2	86	75-125	
1,2-Dichlorobenzene	ug/L	20	15.7	78	75-125	
1,2-Dichloroethane	ug/L	20	20.6	103	73-125	
1,2-Dichloropropane	ug/L	20	18.5	93	75-125	
1,3,5-Trimethylbenzene	ug/L	20	17.2	86	75-125	
1,3-Dichlorobenzene	ug/L	20	17.9	89	74-125	
1,3-Dichloropropane	ug/L	20	19.8	99	75-125	
1,4-Dichlorobenzene	ug/L	20	17.4	87	75-125	
2,2-Dichloropropane	ug/L	20	15.5	78	59-139	
2-Butanone (MEK)	ug/L	100	93.3	93	63-130	
2-Chlorotoluene	ug/L	20	17.3	86	72-125	
4-Chlorotoluene	ug/L	20	16.9	84	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.8	99	71-126	
Acetone	ug/L	100	126	126	69-131	
Allyl chloride	ug/L	20	16.5	83	67-125	
Benzene	ug/L	20	18.7	93	71-125	
Bromobenzene	ug/L	20	18.7	94	75-125	
Bromochloromethane	ug/L	20	19.1	95	75-125	
Bromodichloromethane	ug/L	20	19.8	99	75-125	
Bromoform	ug/L	20	19.4	97	70-125	
Bromomethane	ug/L	20	15.9	79	30-150	
Carbon tetrachloride	ug/L	20	17.5	87	75-126	
Chlorobenzene	ug/L	20	19.6	98	75-125	
Chloroethane	ug/L	20	16.4	82	65-134	
Chloroform	ug/L	20	19.1	96	75-125	
Chloromethane	ug/L	20	15.1	75	39-150	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	72-125	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	75-125	
Dibromochloromethane	ug/L	20	18.5	92	75-125	
Dibromomethane	ug/L	20	20.5	102	75-125	
Dichlorodifluoromethane	ug/L	20	17.0	85	50-134	
Dichlorofluoromethane	ug/L	20	19.7	98	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.6	98	72-125	
Ethylbenzene	ug/L	20	18.6	93	75-125	
Hexachloro-1,3-butadiene	ug/L	20	17.5	87	70-138	
Isopropylbenzene (Cumene)	ug/L	20	18.6	93	75-125	
Methyl-tert-butyl ether	ug/L	20	19.9	100	73-125	
Methylene Chloride	ug/L	20	16.4	82	73-125	
n-Butylbenzene	ug/L	20	13.9	70	72-133	L0
n-Propylbenzene	ug/L	20	17.1	85	72-126	
Naphthalene	ug/L	20	13.6	68	70-127	L0
p-Isopropyltoluene	ug/L	20	16.5	82	72-132	
sec-Butylbenzene	ug/L	20	15.6	78	73-132	
Styrene	ug/L	20	18.9	95	75-125	
tert-Butylbenzene	ug/L	20	17.7	88	73-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1934952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	17.1	85	74-125	
Tetrahydrofuran	ug/L	200	214	107	62-133	
Toluene	ug/L	20	18.7	94	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	69-125	
trans-1,3-Dichloropropene	ug/L	20	18.1	91	75-125	
Trichloroethene	ug/L	20	19.3	96	75-125	
Trichlorofluoromethane	ug/L	20	20.0	100	74-127	
Vinyl chloride	ug/L	20	16.4	82	66-132	
Xylene (Total)	ug/L	60	55.5	93	75-125	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936139 1936140

Parameter	Units	10300800006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	10	10	6.7	7.5	67	75	70-138	12	30	M1
1,1,1-Trichloroethane	ug/L	ND	10	10	7.5	9.3	75	93	55-150	21	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10	7.1	8.0	71	80	64-140	12	30	
1,1,2-Trichloroethane	ug/L	ND	10	10	6.8	8.2	68	82	67-137	19	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10	10	7.2	7.9	72	79	51-150	9	30	
1,1-Dichloroethane	ug/L	ND	10	10	7.4	8.3	74	83	49-150	12	30	
1,1-Dichloroethene	ug/L	ND	10	10	6.6	8.6	66	86	40-150	26	30	
1,1-Dichloropropene	ug/L	ND	10	10	6.7	8.5	67	85	50-150	23	30	
1,2,3-Trichlorobenzene	ug/L	ND	10	10	6.3	7.3	63	73	59-148	14	30	
1,2,3-Trichloropropane	ug/L	ND	10	10	7.7	8.5	77	85	65-141	11	30	
1,2,4-Trichlorobenzene	ug/L	ND	10	10	5.9	7.3	59	73	61-140	21	30	M1
1,2,4-Trimethylbenzene	ug/L	ND	10	10	6.3	7.4	63	74	58-141	16	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	25	25	16.4	19.8	65	79	53-150	19	30	
1,2-Dibromoethane (EDB)	ug/L	ND	10	10	6.7	7.7	67	77	65-137	14	30	
1,2-Dichlorobenzene	ug/L	ND	10	10	6.3	7.1	63	71	66-133	12	30	M1
1,2-Dichloroethane	ug/L	ND	10	10	7.5	8.8	75	88	54-138	16	30	
1,2-Dichloropropane	ug/L	ND	10	10	8.5	9.5	85	95	62-138	11	30	
1,3,5-Trimethylbenzene	ug/L	ND	10	10	6.5	7.3	65	73	58-140	12	30	
1,3-Dichlorobenzene	ug/L	ND	10	10	6.7	7.9	67	79	66-132	16	30	
1,3-Dichloropropane	ug/L	ND	10	10	8.2	8.4	82	84	66-134	3	30	
1,4-Dichlorobenzene	ug/L	ND	10	10	5.9	7.4	59	74	65-129	23	30	M1
2,2-Dichloropropane	ug/L	ND	10	10	5.0	5.6	50	56	40-150	12	30	
2-Butanone (MEK)	ug/L	ND	50	50	37.0	46.4	74	93	51-147	22	30	
2-Chlorotoluene	ug/L	ND	10	10	6.6	7.9	66	79	58-147	17	30	
4-Chlorotoluene	ug/L	ND	10	10	6.0	7.6	60	76	64-138	23	30	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	37.0	43.8	74	88	59-143	17	30	
Acetone	ug/L	ND	50	50	48.7	61.3	97	123	63-147	23	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936139 1936140

Parameter	Units	10300800006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	10	10	7.4	7.9	74	79	45-150	6	30	
Benzene	ug/L	ND	10	10	7.5	9.8	70	93	53-139	26	30	
Bromobenzene	ug/L	ND	10	10	7.1	8.4	71	84	66-136	16	30	
Bromochloromethane	ug/L	ND	10	10	7.6	7.5	76	75	64-136	2	30	
Bromodichloromethane	ug/L	ND	10	10	8.1	9.1	81	91	66-138	12	30	
Bromoform	ug/L	ND	10	10	7.0	8.2	70	82	59-136	16	30	
Bromomethane	ug/L	ND	10	10	7.4	8.9	74	89	30-150	19	30	
Carbon tetrachloride	ug/L	ND	10	10	6.7	9.0	67	90	56-150	29	30	
Chlorobenzene	ug/L	ND	10	10	7.1	8.7	71	87	65-133	20	30	
Chloroethane	ug/L	ND	10	10	8.3	8.1	83	81	48-150	2	30	
Chloroform	ug/L	ND	10	10	7.6	9.0	76	90	57-145	18	30	
Chloromethane	ug/L	ND	10	10	6.1	6.7	61	67	30-150	9	30	
cis-1,2-Dichloroethene	ug/L	6.6	10	10	14.9	15.7	83	91	49-150	5	30	
cis-1,3-Dichloropropene	ug/L	ND	10	10	7.1	7.9	71	79	64-130	10	30	
Dibromochloromethane	ug/L	ND	10	10	6.7	8.1	67	81	68-138	18	30	M1
Dibromomethane	ug/L	ND	10	10	7.9	9.1	79	91	67-134	14	30	
Dichlorodifluoromethane	ug/L	ND	10	10	7.5	7.3	75	73	45-150	2	30	
Dichlorofluoromethane	ug/L	ND	10	10	9.5	9.9	95	99	54-150	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	10	10	7.8	7.9	78	79	50-145	1	30	
Ethylbenzene	ug/L	ND	10	10	6.8	8.4	68	84	55-139	20	30	
Hexachloro-1,3-butadiene	ug/L	ND	10	10	7.3	7.5	73	75	49-150	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	10	10	6.8	7.9	68	79	64-142	16	30	
Methyl-tert-butyl ether	ug/L	ND	10	10	8.2	9.6	82	96	62-129	16	30	
Methylene Chloride	ug/L	ND	10	10	8.1	9.2	81	92	57-132	13	30	
n-Butylbenzene	ug/L	ND	10	10	4.9	5.6	49	56	55-150	14	30	M0
n-Propylbenzene	ug/L	ND	10	10	6.2	7.5	62	75	59-142	19	30	
Naphthalene	ug/L	ND	10	10	5.4	6.3	54	63	51-150	16	30	
p-Isopropyltoluene	ug/L	ND	10	10	6.0	6.8	60	68	60-149	13	30	
sec-Butylbenzene	ug/L	ND	10	10	5.7	6.7	57	67	60-150	16	30	M1
Styrene	ug/L	ND	10	10	6.4	7.6	64	76	68-134	17	30	M1
tert-Butylbenzene	ug/L	ND	10	10	6.4	7.7	64	77	62-146	18	30	
Tetrachloroethene	ug/L	ND	10	10	6.5	8.2	60	77	50-150	23	30	
Tetrahydrofuran	ug/L	ND	100	100	91.4	102	91	102	59-145	11	30	
Toluene	ug/L	ND	10	10	7.7	8.2	77	82	52-148	6	30	
trans-1,2-Dichloroethene	ug/L	ND	10	10	7.1	9.3	71	93	45-150	28	30	
trans-1,3-Dichloropropene	ug/L	ND	10	10	6.9	7.2	69	72	68-132	5	30	
Trichloroethene	ug/L	0.71	10	10	8.5	9.3	78	86	52-150	9	30	
Trichlorofluoromethane	ug/L	ND	10	10	7.9	8.6	79	86	55-150	8	30	
Vinyl chloride	ug/L	0.73	10	10	10	9.5	92	88	43-150	5	30	
Xylene (Total)	ug/L	ND	30	30	20.5	23.7	68	79	54-144	15	30	
1,2-Dichloroethane-d4 (S)	%.						93	95	75-125			
4-Bromofluorobenzene (S)	%.						99	101	75-125			
Toluene-d8 (S)	%.						101	94	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: OEXT/28678 Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV
Associated Lab Samples: 10300801001, 10300801002, 10300801003, 10300801004, 10300801005, 10300801006, 10300801007, 10300801008

METHOD BLANK: 1926871 Matrix: Solid
Associated Lab Samples: 10300801001, 10300801002, 10300801003, 10300801004, 10300801005, 10300801006, 10300801007, 10300801008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	03/30/15 08:10	
Acenaphthylene	ug/kg	ND	10.0	03/30/15 08:10	
Anthracene	ug/kg	ND	10.0	03/30/15 08:10	
Benzo(a)anthracene	ug/kg	ND	10.0	03/30/15 08:10	
Benzo(a)pyrene	ug/kg	ND	10.0	03/30/15 08:10	
Benzo(b)fluoranthene	ug/kg	ND	10.0	03/30/15 08:10	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	03/30/15 08:10	
Benzo(k)fluoranthene	ug/kg	ND	10.0	03/30/15 08:10	
Chrysene	ug/kg	ND	10.0	03/30/15 08:10	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	03/30/15 08:10	
Fluoranthene	ug/kg	ND	10.0	03/30/15 08:10	
Fluorene	ug/kg	ND	10.0	03/30/15 08:10	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	03/30/15 08:10	
Naphthalene	ug/kg	ND	10.0	03/30/15 08:10	
Phenanthrene	ug/kg	ND	10.0	03/30/15 08:10	
Pyrene	ug/kg	ND	10.0	03/30/15 08:10	
2-Fluorobiphenyl (S)	%.	66	55-125	03/30/15 08:10	
p-Terphenyl-d14 (S)	%.	82	30-150	03/30/15 08:10	

LABORATORY CONTROL SAMPLE: 1926872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	24.1	72	53-125	
Acenaphthylene	ug/kg	33.3	24.6	74	53-125	
Anthracene	ug/kg	33.3	30.7	92	61-125	
Benzo(a)anthracene	ug/kg	33.3	26.1	78	62-125	
Benzo(a)pyrene	ug/kg	33.3	28.1	84	64-125	
Benzo(b)fluoranthene	ug/kg	33.3	27.2	82	66-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.1	81	59-125	
Benzo(k)fluoranthene	ug/kg	33.3	26.7	80	61-125	
Chrysene	ug/kg	33.3	25.3	76	63-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.0	81	59-125	
Fluoranthene	ug/kg	33.3	27.1	81	64-125	
Fluorene	ug/kg	33.3	25.4	76	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	25.9	78	58-125	
Naphthalene	ug/kg	33.3	18.6	56	52-125	
Phenanthrene	ug/kg	33.3	25.9	78	60-125	
Pyrene	ug/kg	33.3	30.7	92	63-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

LABORATORY CONTROL SAMPLE: 1926872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			67	55-125	
p-Terphenyl-d14 (S)	%.			78	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1926873 1926874

Parameter	Units	10299933023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	56.1	56.2	36.3	36.2	65	64	39-125	0	30	
Acenaphthylene	ug/kg	ND	56.1	56.2	38.6	38.0	68	66	30-150	2	30	
Anthracene	ug/kg	ND	56.1	56.2	40.4	43.0	70	74	30-150	6	30	
Benzo(a)anthracene	ug/kg	ND	56.1	56.2	29.6	32.9	46	52	30-150	11	30	
Benzo(a)pyrene	ug/kg	ND	56.1	56.2	30.4	35.9	54	64	30-150	16	30	
Benzo(b)fluoranthene	ug/kg	4.2J	56.1	56.2	30.0	33.4	46	52	30-150	11	30	
Benzo(g,h,i)perylene	ug/kg	ND	56.1	56.2	27.4	31.3	49	56	30-150	13	30	
Benzo(k)fluoranthene	ug/kg	ND	56.1	56.2	28.3	34.3	47	58	30-150	19	30	
Chrysene	ug/kg	ND	56.1	56.2	30.1	32.8	47	52	30-150	9	30	
Dibenz(a,h)anthracene	ug/kg	ND	56.1	56.2	28.0	30.8	50	55	30-150	10	30	
Fluoranthene	ug/kg	ND	56.1	56.2	30.0	32.1	41	45	30-150	7	30	
Fluorene	ug/kg	ND	56.1	56.2	37.6	37.9	66	66	30-146	1	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	56.1	56.2	29.0	30.3	52	54	30-150	4	30	
Naphthalene	ug/kg	ND	56.1	56.2	33.9	31.6	60	56	30-131	7	30	
Phenanthrene	ug/kg	ND	56.1	56.2	36.5	37.4	57	59	30-150	2	30	
Pyrene	ug/kg	6.8J	56.1	56.2	37.2	40.7	54	60	30-150	9	30	
2-Fluorobiphenyl (S)	%.						65	61	55-125			
p-Terphenyl-d14 (S)	%.						61	62	30-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 14-1004 FSY
Pace Project No.: 10300801

QC Batch: OEXT/28710 Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270D PAH by SIM MSSV
Associated Lab Samples: 10300802001, 10300802002, 10300802003, 10300802004, 10300802005, 10300802006

METHOD BLANK: 1928857 Matrix: Water
Associated Lab Samples: 10300802001, 10300802002, 10300802003, 10300802004, 10300802005, 10300802006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	04/02/15 08:23	
Acenaphthylene	ug/L	ND	0.040	04/02/15 08:23	
Anthracene	ug/L	ND	0.040	04/02/15 08:23	
Benzo(a)anthracene	ug/L	ND	0.040	04/02/15 08:23	
Benzo(a)pyrene	ug/L	ND	0.040	04/02/15 08:23	
Benzo(b)fluoranthene	ug/L	ND	0.040	04/02/15 08:23	
Benzo(g,h,i)perylene	ug/L	ND	0.040	04/02/15 08:23	
Benzo(k)fluoranthene	ug/L	ND	0.040	04/02/15 08:23	
Chrysene	ug/L	ND	0.040	04/02/15 08:23	
Dibenz(a,h)anthracene	ug/L	ND	0.040	04/02/15 08:23	
Fluoranthene	ug/L	ND	0.040	04/02/15 08:23	
Fluorene	ug/L	ND	0.040	04/02/15 08:23	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	04/02/15 08:23	
Naphthalene	ug/L	ND	0.040	04/02/15 08:23	
Phenanthrene	ug/L	ND	0.040	04/02/15 08:23	
Pyrene	ug/L	ND	0.040	04/02/15 08:23	
2-Fluorobiphenyl (S)	%.	71	52-125	04/02/15 08:23	
p-Terphenyl-d14 (S)	%.	77	62-125	04/02/15 08:23	

LABORATORY CONTROL SAMPLE & LCSD: 1928858 1928859

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.74	0.74	74	74	44-125	0	20	
Acenaphthylene	ug/L	1	0.74	0.77	74	77	44-125	4	20	
Anthracene	ug/L	1	0.97	0.98	97	98	55-125	1	20	
Benzo(a)anthracene	ug/L	1	0.83	0.84	83	84	56-125	1	20	
Benzo(a)pyrene	ug/L	1	0.91	0.91	91	91	61-125	0	20	
Benzo(b)fluoranthene	ug/L	1	0.89	0.90	89	90	60-125	1	20	
Benzo(g,h,i)perylene	ug/L	1	0.88	0.89	88	89	53-125	2	20	
Benzo(k)fluoranthene	ug/L	1	0.87	0.85	87	85	59-125	2	20	
Chrysene	ug/L	1	0.82	0.84	82	84	61-125	2	20	
Dibenz(a,h)anthracene	ug/L	1	0.91	0.90	91	90	51-125	1	20	
Fluoranthene	ug/L	1	0.92	0.93	92	93	64-125	2	20	
Fluorene	ug/L	1	0.76	0.79	76	79	52-125	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.87	0.87	87	87	54-125	0	20	
Naphthalene	ug/L	1	0.69	0.71	69	71	35-125	3	20	
Phenanthrene	ug/L	1	0.81	0.83	81	83	55-125	3	20	
Pyrene	ug/L	1	0.87	0.88	87	88	59-125	1	20	
2-Fluorobiphenyl (S)	%.				69	70	52-125			
p-Terphenyl-d14 (S)	%.				76	77	62-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 14-1004 FSY
Pace Project No.: 10300801

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/12116

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C0	Result confirmed by second analysis.
C8	Result may be biased high due to carryover from previously analyzed sample.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

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QUALIFIERS

Project: 14-1004 FSY
Pace Project No.: 10300801

ANALYTE QUALIFIERS

S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-1004 FSY
Pace Project No.: 10300801

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10300801001	GP1 2-4	ASTM D2974	MPRP/53220		
10300801002	GP2 2-4	ASTM D2974	MPRP/53225		
10300801003	GP3 2-4	ASTM D2974	MPRP/53225		
10300801004	GP4 2-4	ASTM D2974	MPRP/53225		
10300801005	GP5 4-8	ASTM D2974	MPRP/53225		
10300801006	GP6 4-8	ASTM D2974	MPRP/53225		
10300801007	GP7 2-4	ASTM D2974	MPRP/53225		
10300801008	GP50 4-8	ASTM D2974	MPRP/53225		
10300801001	GP1 2-4	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801002	GP2 2-4	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801003	GP3 2-4	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801004	GP4 2-4	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801005	GP5 4-8	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801006	GP6 4-8	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801007	GP7 2-4	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300801008	GP50 4-8	EPA 3550	OEXT/28678	EPA 8270D by SIM	MSSV/12097
10300802001	GP1W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300802002	GP2W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300802003	GP3W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300802004	GP4W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300802005	GP6W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300802006	GP7W	EPA 3510	OEXT/28710	EPA 8270D by SIM	MSSV/12116
10300801001	GP1 2-4	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801002	GP2 2-4	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801003	GP3 2-4	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801004	GP4 2-4	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801005	GP5 4-8	EPA 5035/5030B	MSV/30950	EPA 8260	MSV/30961
10300801006	GP6 4-8	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801007	GP7 2-4	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300801008	GP50 4-8	EPA 5035/5030B	MSV/30970	EPA 8260	MSV/30986
10300801009	Trip Blank	EPA 5035/5030B	MSV/30935	EPA 8260	MSV/30956
10300802001	GP1W	EPA 8260	MSV/31022		
10300802002	GP2W	EPA 8260	MSV/30960		
10300802003	GP3W	EPA 8260	MSV/30960		
10300802004	GP4W	EPA 8260	MSV/31022		
10300802005	GP6W	EPA 8260	MSV/30960		
10300802006	GP7W	EPA 8260	MSV/31022		
10300802007	Trip Blank	EPA 8260	MSV/31022		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

L. Carlson

Page: 1 of 2

1825556

Section A Required Client Information:

Company: Env. Troubleshooters
Address: 3825 Grand Ave
Duluth, MN 55807
Email To: jmccarthy@etsmn.com
Phone: 218-722-6013 Fax:
Requested Due Date/TAT: Std 10 day

Section B Required Project Information:

Report To:
Copy To: Same
Purchase Order No.:
Project Name: FS4 (Fraser Shipyard)
Project Number: 14-1004

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference: ET15
Pace Project Manager: Lori Castille
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER
Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PAH SSM	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP1 2-4	SL	G			3/24/15	1010		5	3						2			X	X		
2	GP2 2-4	SL	G			3/24/15	1100		5	3						2			X	X		
3	GP3 2-4	SL	G			3/24/15	1145		5	3						2			X	X		
4	GP4 2-4	SL	G			3/24/15	1320		5	3						2			X	X		
5	GP5 4-8	SL	G			3/25/15	1030		5	3						2			X	X		
6	GP6 4-8	SL	G			3/24/15	1600		5	3						2			X	X		
7	GP7 2-4	SL	G			3/24/15	1400		5	3						2			X	X		
8	GP50 4-8	SL	G			3/25/15	1035		5	3						2			X	X		
9	TB 3/24/15 pmm																					
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John McCarthy / ET	3/26/15	1510		3/26/15	1510	
		3/26/15	1545		3/26/15	1545	
		3/26/15	1907	PACE	3/26-15	1807	5.8 / 3.8

Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	4	4	4

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John McCarthy
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/26/15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Feb2014 Page 1 of 1
	Document No.: F-MN-L-213-rev.09	Issuing Authority: Pace Minnesota Quality Office

Client Name: Env. Troubleshooters

Project #: WO# : 10300801

10300801

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermom. Used: ☒ B88A9130516413 ☐ B88A912167504 ☐ B88A9132521491 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.2 Cooler Temp Corrected (°C): 3.4 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: +0.2 Date and Initials of Person Examining Contents: 3/26/15 mm

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☒ Yes	☐ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☒ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: TB not on COC.

Project Manager Review: Date: 03/27/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical® www.pacelabs.com

10300801

10300802 CMS 3/27/15

Page: 2 of 2

1491486

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Env. Troubleshooters	Report To: ?	Attention: ?
Address: 3825 Grand Ave Duluth MN 55807	Copy To: Same	Company Name: Same
Email To: jmccarthy@etsmn.com	Purchase Order No.:	Address:
Phone: 2372603 Fax:	Project Name: FSY	Pace Quote Reference: ETIS
Requested Due Date/TAT: Std -10 day	Project Number: 14-1004	Pace Project Manager: Lori Castile
		Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PAH SIM	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP1W	WT	G		3/25/15		1040		5	2			3					X	X	X		001
2	GP2W	WT	G		3/25/15		1055		5	2			3					X	X	X		002
3	GP3W	WT	G		3/25/15		1110		5	2			3					X	X	X		003
4	GP4W	WT	G		3/25/15		1140		5	2			3					X	X	X		004
5	GP6W	WT	G		3/25/15		1320		5	2			3					X	X	X		005
6	GP7W	WT	G		3/25/15		1340		5	2			3					X	X	X		006
7	TB 3/26/15 mm																					007
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	John McCarthy/ET	3/26/15	1510		3/26/15	1510				
		3/26/15	1545		3/26/15	1545				
		3/26/15	1807	FACE	3-26-15	1807	5.8	Y	Y	Y
							3.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John McCarthy

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/26/15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Feb2014 Page 1 of 1
	Document No.: F-MN-L-213-rev.09	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Environmental Troubleshooters **Project #:** WO# : 10300802

10300802

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☑Pace ☐SpeeDee ☐Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☑Yes ☐No **Seals Intact?** ☑Yes ☐No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐Bubble Wrap ☑Bubble Bags ☐None ☐Other: **Temp Blank?** ☑Yes ☐No

Thermom. Used: ☑B88A9130516413 ☐B88A912167504 ☐B88A9132521491 **Type of Ice:** ☑Wet ☐Blue ☐None ☐Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 3.2 **Cooler Temp Corrected (°C):** 3.4 **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.2 **Date and Initials of Person Examining Contents:** 3/26/15 wm

				Comments:
Chain of Custody Present?	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☑Yes	☐No	☐N/A	3.
Sampler Name and/or Signature on COC?	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☑No	☐N/A	7.
Sufficient Volume?	☑Yes	☐No	☐N/A	8.
Correct Containers Used?	☑Yes	☐No	☐N/A	9.
-Pace Containers Used?	☑Yes	☐No	☐N/A	
Containers Intact?	☑Yes	☐No	☐N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑Yes	☐No	☐N/A	12.
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	13. ☐HNO_3 ☐H_2SO_4 ☐NaOH ☐HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☑N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☑Yes	☐No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐Yes	☑No	☐N/A	14.
Trip Blank Present?	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present?	☐Yes	☑No	☐N/A	
Pace Trip Blank Lot # (if purchased): 0303520				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution: TB NOT ON COC

Project Manager Review: Date: 03/27/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)