

## Ted Sykes

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**From:** Ted Sykes  
**Sent:** Tuesday, March 25, 2014 10:27 AM  
**To:** joe@pathamerica.com  
**Subject:** FW: Report for Project ES-2880.05, Lab ID 1403-155  
**Attachments:** 1403-155.pdf

Joe,

I received the analytical results from the groundwater samples collected last Friday (3/21/14) from existing monitoring wells (MW-1 and MW-2) located west of the dry cleaning tenant space. The locations of the wells are depicted on figures contained in the previous environmental investigation reports completed by Aspect Consulting and our Cleanup Action Plan. As you know, monitoring well MW-3 was badly damaged and could not be sampled.

Based on the attached analytical results, there were no VOC constituents detected at levels exceeding the laboratory analytical method practical quantitation limits (PQLs). All VOC analytical results were reported by the laboratory as "ND".

Ted

**Ted W. Sykes, CESCL, CAC, CLP**

Environmental Senior Project Manager

**Earth Solutions NW**

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Bellevue, WA 98005

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**From:** David Baumeister [<mailto:dbaumeister@onsite-env.com>]

**Sent:** Monday, March 24, 2014 2:44 PM

**To:** Ted Sykes

**Subject:** Report for Project ES-2880.05, Lab ID 1403-155

Ted,

Please call or e-mail me with any questions.

Thank you,  
David

*If you are in need of a hardcopy of your report or your invoice, please let me know.*

David A. Baumeister  
Project Manager



*Celebrating over 20 years in business*

14648 NE 95<sup>th</sup> Street, Redmond, WA 98052

T: 425.883.3881 C: 206.550.2483

[dbaumeister@onsite-env.com](mailto:dbaumeister@onsite-env.com)

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**Photo Documentation**

(See Appendix A)

Number and Direction of Photo

Photo of Ground

**Exploration Locations**

Monitoring Well (Aspect, 2008)

Soil Boring (Aspect, 2008)

Soil Boring (EAI, 2006)

Parcel Boundaries



**Site Plan**

Potala Village Phase I  
Kirkland, Washington

DATE: October 2010	PROJECT NO. 100138
DESIGNED BY: SCC	FIGURE NO. 2
DRAWN BY: SCC	
REVIEWED BY: ---	



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

March 24, 2014

Ted Sykes  
Earth Solutions NW, LLC  
1805 136<sup>th</sup> Place NE, Suite #201  
Bellevue, WA 98005

Re: Analytical Data for Project ES-2880.05  
Laboratory Reference No. 1403-155

Dear Ted:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures

Date of Report: March 24, 2014  
Samples Submitted: March 21, 2014  
Laboratory Reference: 1403-155  
Project: ES-2880.05

#### **Case Narrative**

Samples were collected on March 21, 2014 and received by the laboratory on March 21, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-1</b>					
<b>Laboratory ID:</b>	<b>03-155-01</b>					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloromethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Acetone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Iodomethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Carbon Disulfide	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methylene Chloride	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Vinyl Acetate	ND	1.0	EPA 8260C	3-21-14	3-21-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Butanone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroform	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Benzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Trichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Dibromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Toluene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	

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 Project: ES-2880.05

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-1</b>					
<b>Laboratory ID:</b>	03-155-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Hexanone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Ethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
m,p-Xylene	ND	0.40	EPA 8260C	3-21-14	3-21-14	
o-Xylene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Styrene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromoform	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Isopropylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Propylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Naphthalene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-2</b>					
<b>Laboratory ID:</b>	<b>03-155-02</b>					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloromethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Acetone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Iodomethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Carbon Disulfide	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methylene Chloride	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Vinyl Acetate	ND	1.0	EPA 8260C	3-21-14	3-21-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Butanone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroform	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Benzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Trichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Dibromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Toluene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-2</b>					
Laboratory ID:	03-155-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Hexanone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Ethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
m,p-Xylene	ND	0.40	EPA 8260C	3-21-14	3-21-14	
o-Xylene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Styrene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromoform	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Isopropylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Propylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Naphthalene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0321W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloromethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Acetone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Iodomethane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Carbon Disulfide	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methylene Chloride	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Vinyl Acetate	ND	1.0	EPA 8260C	3-21-14	3-21-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Butanone	ND	5.0	EPA 8260C	3-21-14	3-21-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chloroform	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Benzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Trichloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Dibromomethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Toluene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-21-14	3-21-14	

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0321W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Hexanone	ND	2.0	EPA 8260C	3-21-14	3-21-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Ethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
m,p-Xylene	ND	0.40	EPA 8260C	3-21-14	3-21-14	
o-Xylene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Styrene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromoform	ND	1.0	EPA 8260C	3-21-14	3-21-14	
Isopropylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Bromobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Propylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
n-Butylbenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
Naphthalene	ND	1.0	EPA 8260C	3-21-14	3-21-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-21-14	3-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 24, 2014  
 Samples Submitted: March 21, 2014  
 Laboratory Reference: 1403-155  
 Project: ES-2880.05

**VOLATILES by EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0321W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	13.9	12.3	10.0	10.0	139	123	63-142	12	17	
Benzene	10.0	10.0	10.0	10.0	100	100	78-125	0	15	
Trichloroethene	9.52	9.55	10.0	10.0	95	96	80-125	0	15	
Toluene	9.62	9.77	10.0	10.0	96	98	80-125	2	15	
Chlorobenzene	10.3	10.4	10.0	10.0	103	104	80-140	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					101	99	62-122			
Toluene-d8					98	99	70-120			
4-Bromofluorobenzene					94	95	71-120			



### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference

