



**Washington State
Department of Transportation**

Lynn Peterson
Secretary of Transportation

Northwest Region
15700 Dayton Avenue North
P.O. Box 330310
Seattle, WA 98133-9710
206-440-4000
TTY: 1-800-833-6388
www.wsdot.wa.gov

RECEIVED

December 10, 2014

DEC 11 2014

Department of Ecology
Toxics Cleanup Program

Toxics Cleanup Program
Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504

RECEIVED
DEC 15 2014
DEPT OF ECOLOGY
TCP - NWRO

Subject: Contaminated Media at State Route (SR) 11 Sam Bell Road

In accordance with Washington Administrative Code 173-340-300, this letter is to inform you of the discovery of soil contamination within right-of-way owned by Washington State Department of Transportation (WSDOT). In accordance with WSDOT policy, this letter also serves to report discovery of a historical release of contamination in the past 90-days. The discovery occurred during excavation for the construction of a roundabout at the intersection of SR 11 and Sam Bell Road. The discovery is not considered to be an immediate threat to human health and the environment.

Site History

There was an historic gas station that used to exist at or near this intersection. WSDOT does not have knowledge if the source was ever removed.

Site Work

During excavation on September 30, 2014, WSDOT discovered soils that had visual and olfactory indicators of petroleum contamination. WSDOT removed, sampled, and disposed of contaminated media from that intersection. WSDOT removed approximately 19.14 tons and disposed of the material at Cemex in Everett, WA.

WSDOT did confirmation samples on October 2, 2014 (see attached). The samples indicate that Model Toxics Control Act cleanup standards are exceeded for gasoline. There does not appear to be an immediate risk to human health and/or the environment as the contaminated material during construction has been removed from the site. WSDOT will put this information in our files for future investigations at this site.

If you have any questions about this site, please contact me at 206-440-4535.

Sincerely,

Patrick Svoboda
Hazardous Material Specialist
Northwest Region
Washington State Department of Transportation

Attachment



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

October 6, 2014

Patrick Svoboda
WSDOT
15700 Dayton Avenue North
NB82-138
P.O. Box 330310
Seattle, WA 98133-9710

Re: Analytical Data for Project SR11 S
Laboratory Reference No. 1410-026

Dear Pat:

Enclosed are the analytical results and associated quality control data for samples submitted on October 2, 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", followed by a long horizontal flourish line.

David Baumeister
Project Manager

Enclosures

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

Case Narrative

Samples were collected on October 2, 2014 and received by the laboratory on October 2, 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.

NWTPH Gx and Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: October 6, 2014
 Samples Submitted: October 2, 2014
 Laboratory Reference: 1410-026
 Project: SR11 S

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB1					
Laboratory ID:	10-026-01					
Gasoline	2500	130	NWTPH-Gx	10-2-14	10-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	71-121				
Client ID:	SBR_SB2					
Laboratory ID:	10-026-02					
Gasoline	490	13	NWTPH-Gx	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	71-121				
Client ID:	SBR_SB3					
Laboratory ID:	10-026-03					
Gasoline	1100	13	NWTPH-Gx	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	71-121				

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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1002S1					
Gasoline	ND	5.0	NWTPH-Gx	10-2-14	10-2-14	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	71-121				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-009-02									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						103	106	71-121		

Date of Report: October 6, 2014
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 Project: SR11 S

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB1					
Laboratory ID:	10-026-01					
Diesel Range Organics	ND	1200	NWTPH-Dx	10-2-14	10-2-14	U1,M1
Lube Oil	200	60	NWTPH-Dx	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	SBR_SB2					
Laboratory ID:	10-026-02					
Diesel Range Organics	ND	340	NWTPH-Dx	10-2-14	10-2-14	U1,M1
Lube Oil	200	58	NWTPH-Dx	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
Client ID:	SBR_SB3					
Laboratory ID:	10-026-03					
Diesel Range Organics	ND	650	NWTPH-Dx	10-2-14	10-2-14	U1,M1
Lube Oil	280	59	NWTPH-Dx	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

Date of Report: October 6, 2014
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 Project: SR11 S

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1002S4					
Diesel Range Organics	ND	25	NWTPH-Dx	10-2-14	10-2-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-2-14	10-2-14	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-026-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1,M1
Lube Oil	167	147	NA	NA	NA	NA	13	NA
Surrogate:								
o-Terphenyl				80	76	50-150		

Date of Report: October 6, 2014
 Samples Submitted: October 2, 2014
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VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB1					
Laboratory ID:	10-026-01					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Chloromethane	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Vinyl Chloride	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Bromomethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Chloroethane	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Trichlorofluoromethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Acetone	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Iodomethane	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Carbon Disulfide	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Methylene Chloride	ND	1.6	EPA 8260C	10-2-14	10-2-14	
(trans) 1,2-Dichloroethene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Methyl t-Butyl Ether	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Vinyl Acetate	ND	1.6	EPA 8260C	10-2-14	10-2-14	
2,2-Dichloropropane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
(cis) 1,2-Dichloroethene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
2-Butanone	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Bromochloromethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Chloroform	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1,1-Trichloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Carbon Tetrachloride	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloropropene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Benzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Trichloroethene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloropropane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Dibromomethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Bromodichloromethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	10-2-14	10-2-14	
(cis) 1,3-Dichloropropene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Methyl Isobutyl Ketone	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Toluene	ND	1.6	EPA 8260C	10-2-14	10-2-14	
(trans) 1,3-Dichloropropene	ND	0.31	EPA 8260C	10-2-14	10-2-14	

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VOLATILES EPA 8260C

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB1					
Laboratory ID:	10-026-01					
1,1,2-Trichloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Tetrachloroethene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,3-Dichloropropane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
2-Hexanone	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Dibromochloromethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromoethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Chlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1,1,2-Tetrachloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Ethylbenzene	1.7	0.31	EPA 8260C	10-2-14	10-2-14	
m,p-Xylene	10	0.63	EPA 8260C	10-2-14	10-2-14	
o-Xylene	1.8	0.31	EPA 8260C	10-2-14	10-2-14	
Styrene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Bromoform	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Isopropylbenzene	0.35	0.31	EPA 8260C	10-2-14	10-2-14	
Bromobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,1,2,2-Tetrachloroethane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichloropropane	ND	0.31	EPA 8260C	10-2-14	10-2-14	
n-Propylbenzene	2.3	0.31	EPA 8260C	10-2-14	10-2-14	
2-Chlorotoluene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
4-Chlorotoluene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,3,5-Trimethylbenzene	11	0.31	EPA 8260C	10-2-14	10-2-14	
tert-Butylbenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trimethylbenzene	37	0.31	EPA 8260C	10-2-14	10-2-14	
sec-Butylbenzene	0.39	0.31	EPA 8260C	10-2-14	10-2-14	
1,3-Dichlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
p-Isopropyltoluene	0.46	0.31	EPA 8260C	10-2-14	10-2-14	
1,4-Dichlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2-Dichlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
n-Butylbenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromo-3-chloropropane	ND	1.6	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trichlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Hexachlorobutadiene	ND	1.6	EPA 8260C	10-2-14	10-2-14	
Naphthalene	12	0.31	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	10-2-14	10-2-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	65-129				
Toluene-d8	95	77-122				
4-Bromofluorobenzene	96	73-124				

Date of Report: October 6, 2014
 Samples Submitted: October 2, 2014
 Laboratory Reference: 1410-026
 Project: SR11 S

VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB2					
Laboratory ID:	10-026-02					
Dichlorodifluoromethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Chloromethane	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Vinyl Chloride	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Bromomethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Chloroethane	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Trichlorofluoromethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Acetone	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Iodomethane	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Carbon Disulfide	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Methylene Chloride	ND	0.60	EPA 8260C	10-2-14	10-2-14	
(trans) 1,2-Dichloroethene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Methyl t-Butyl Ether	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Vinyl Acetate	ND	0.60	EPA 8260C	10-2-14	10-2-14	
2,2-Dichloropropane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
(cis) 1,2-Dichloroethene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
2-Butanone	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Bromochloromethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Chloroform	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1,1-Trichloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Carbon Tetrachloride	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloropropene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Benzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Trichloroethene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloropropane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Dibromomethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Bromodichloromethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
2-Chloroethyl Vinyl Ether	ND	0.60	EPA 8260C	10-2-14	10-2-14	
(cis) 1,3-Dichloropropene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Methyl Isobutyl Ketone	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Toluene	ND	0.60	EPA 8260C	10-2-14	10-2-14	
(trans) 1,3-Dichloropropene	ND	0.12	EPA 8260C	10-2-14	10-2-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB2					
Laboratory ID:	10-026-02					
1,1,2-Trichloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Tetrachloroethene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,3-Dichloropropane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
2-Hexanone	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Dibromochloromethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromoethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Chlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1,1,2-Tetrachloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Ethylbenzene	0.55	0.12	EPA 8260C	10-2-14	10-2-14	
m,p-Xylene	3.4	0.24	EPA 8260C	10-2-14	10-2-14	
o-Xylene	0.57	0.12	EPA 8260C	10-2-14	10-2-14	
Styrene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Bromoform	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Isopropylbenzene	0.14	0.12	EPA 8260C	10-2-14	10-2-14	
Bromobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,1,2,2-Tetrachloroethane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichloropropane	ND	0.12	EPA 8260C	10-2-14	10-2-14	
n-Propylbenzene	0.89	0.12	EPA 8260C	10-2-14	10-2-14	
2-Chlorotoluene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
4-Chlorotoluene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,3,5-Trimethylbenzene	4.6	0.12	EPA 8260C	10-2-14	10-2-14	
tert-Butylbenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trimethylbenzene	15	0.12	EPA 8260C	10-2-14	10-2-14	
sec-Butylbenzene	0.18	0.12	EPA 8260C	10-2-14	10-2-14	
1,3-Dichlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
p-Isopropyltoluene	0.21	0.12	EPA 8260C	10-2-14	10-2-14	
1,4-Dichlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2-Dichlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
n-Butylbenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromo-3-chloropropane	ND	0.60	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trichlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Hexachlorobutadiene	ND	0.60	EPA 8260C	10-2-14	10-2-14	
Naphthalene	6.0	0.12	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichlorobenzene	ND	0.12	EPA 8260C	10-2-14	10-2-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	65-129				
Toluene-d8	97	77-122				
4-Bromofluorobenzene	102	73-124				

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VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB3					
Laboratory ID:	10-026-03					
Dichlorodifluoromethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Chloromethane	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Vinyl Chloride	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Bromomethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Chloroethane	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Trichlorofluoromethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Acetone	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Iodomethane	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Carbon Disulfide	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Methylene Chloride	ND	0.69	EPA 8260C	10-2-14	10-2-14	
(trans) 1,2-Dichloroethene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Methyl t-Butyl Ether	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Vinyl Acetate	ND	0.69	EPA 8260C	10-2-14	10-2-14	
2,2-Dichloropropane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
(cis) 1,2-Dichloroethene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
2-Butanone	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Bromochloromethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Chloroform	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1,1-Trichloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Carbon Tetrachloride	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloropropene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Benzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Trichloroethene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloropropane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Dibromomethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Bromodichloromethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
2-Chloroethyl Vinyl Ether	ND	0.69	EPA 8260C	10-2-14	10-2-14	
(cis) 1,3-Dichloropropene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Methyl Isobutyl Ketone	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Toluene	ND	0.69	EPA 8260C	10-2-14	10-2-14	
(trans) 1,3-Dichloropropene	ND	0.14	EPA 8260C	10-2-14	10-2-14	

Date of Report: October 6, 2014
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 Project: SR11 S

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SBR_SB3					
Laboratory ID:	10-026-03					
1,1,2-Trichloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Tetrachloroethene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,3-Dichloropropane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
2-Hexanone	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Dibromochloromethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromoethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Chlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1,1,2-Tetrachloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Ethylbenzene	1.4	0.14	EPA 8260C	10-2-14	10-2-14	
m,p-Xylene	8.1	0.28	EPA 8260C	10-2-14	10-2-14	
o-Xylene	1.5	0.14	EPA 8260C	10-2-14	10-2-14	
Styrene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Bromoform	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Isopropylbenzene	0.29	0.14	EPA 8260C	10-2-14	10-2-14	
Bromobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,1,2,2-Tetrachloroethane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichloropropane	ND	0.14	EPA 8260C	10-2-14	10-2-14	
n-Propylbenzene	1.9	0.14	EPA 8260C	10-2-14	10-2-14	
2-Chlorotoluene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
4-Chlorotoluene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,3,5-Trimethylbenzene	9.8	0.14	EPA 8260C	10-2-14	10-2-14	
tert-Butylbenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trimethylbenzene	33	0.34	EPA 8260C	10-2-14	10-2-14	
sec-Butylbenzene	0.36	0.14	EPA 8260C	10-2-14	10-2-14	
1,3-Dichlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
p-Isopropyltoluene	0.41	0.14	EPA 8260C	10-2-14	10-2-14	
1,4-Dichlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2-Dichlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
n-Butylbenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromo-3-chloropropane	ND	0.69	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trichlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
Hexachlorobutadiene	ND	0.69	EPA 8260C	10-2-14	10-2-14	
Naphthalene	12	0.14	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichlorobenzene	ND	0.14	EPA 8260C	10-2-14	10-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>73-124</i>				

Date of Report: October 6, 2014
 Samples Submitted: October 2, 2014
 Laboratory Reference: 1410-026
 Project: SR11 S

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1002S1						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Chloromethane	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Bromomethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Chloroethane	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Acetone	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Iodomethane	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Methylene Chloride	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
2-Butanone	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Bromochloromethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Chloroform	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Benzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Dibromomethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Toluene	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	

Date of Report: October 6, 2014
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VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1002S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
2-Hexanone	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Chlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Ethylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
m,p-Xylene	ND	0.0020	EPA 8260C	10-2-14	10-2-14	
o-Xylene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Styrene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Bromoform	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Bromobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-2-14	10-2-14	
Naphthalene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-2-14	10-2-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	65-129				
Toluene-d8	102	77-122				
4-Bromofluorobenzene	102	73-124				

Date of Report: October 6, 2014
 Samples Submitted: October 2, 2014
 Laboratory Reference: 1410-026
 Project: SR11 S

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

Matrix: Soil
 Units: mg/kg

Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1002S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0435	0.0431	0.0500	0.0500	87	86	56-141	1	15	
Benzene	0.0453	0.0458	0.0500	0.0500	91	92	70-121	1	15	
Trichloroethene	0.0496	0.0499	0.0500	0.0500	99	100	74-118	1	15	
Toluene	0.0461	0.0472	0.0500	0.0500	92	94	75-120	2	15	
Chlorobenzene	0.0446	0.0449	0.0500	0.0500	89	90	75-120	1	15	
Surrogate:										
Dibromofluoromethane					98	100	65-129			
Toluene-d8					97	99	77-122			
4-Bromofluorobenzene					98	99	73-124			

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-026-01					
Client ID:	SBR_SB1					
Lead	17	5.6	6010C	10-2-14	10-3-14	
Lab ID:	10-026-02					
Client ID:	SBR_SB2					
Lead	35	5.4	6010C	10-2-14	10-3-14	
Lab ID:	10-026-03					
Client ID:	SBR_SB3					
Lead	21	6.0	6010C	10-2-14	10-3-14	

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-2-14
Date Analyzed: 10-3-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1002SH1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-2-14

Date Analyzed: 10-3-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-012-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	16.2	16.5	2	5.0	

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-2-14

Date Analyzed: 10-3-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-012-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	249	93	238	89	5	

Date of Report: October 6, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-026
Project: SR11 S

% MOISTURE

Date Analyzed: 10-2-14

Client ID	Lab ID	% Moisture
SBR_SB1	10-026-01	16
SBR_SB2	10-026-02	14
SBR_SB2	10-026-03	15



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Chain of Custody

Page 1 of 1

Turnaround Request
(in working days)

(Check One)

- ☐ Same Day ☒ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
(TPH analysis 5 Days)
☐ (other) _____

Company:

W300T

Project Number:

SR11 S

Project Name:

5111 SAM BELL ROAD.

Project Manager:

PAT SUBODIA

Sampled by:

Laboratory Number:

10-026

Number of Containers
6

Time Sampled

Matrix

Lab ID

Sample Identification

1 SBR - SB 1

2 SBR - SB 2

3 SBR - SB 3

9:10

9:30

9:45

S

I

J

Signature

[Signature]

[Signature]

Company

W300T

Q875

Date

10/2/14

10/2/14

Time

12:00 PM

1200

Comments/Special Instructions

Added off for metals and
sent from Pat - DB

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐

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

