



December 16, 2013

Pryde-Johnson
Attn: Mr. Curt Pryde
419 NE 70th Street
Seattle, Washington

Subject: Status Report
Former Ballard Library
5711 24th Avenue NW
Seattle, Washington

Dear Mr. Pryde,

The following is a status report of the soils remediation at the above referenced site.

BACKGROUND

The subject site consists of a rectangular, 0.46-acre parcel, is the former location of the Ballard branch of the Seattle Library.

Three prior subsurface evaluations have been conducted on the site: "Phase I and Phase II Site Assessment, Ballard Library, Seattle, Washington" Shannon & Wilson, Inc. (S&W) dated February 2005; "Phase II Site Assessment, Former Ballard Library Property, 5711 24th Avenue Northwest," prepared by Geotech Consultants, Inc. (GCI) dated February 6, 2006; and "Limited Phase II Evaluation, Former Ballard Library" prepared by Basalt, dated June 15, 2011.

These studies detected concentrations of gasoline-range petroleum hydrocarbons exceeding the Model Toxics Control Act (MTCA) Method A cleanup criteria for unrestricted land use in two primary areas, specifically in the southern portion of the parking area and on the northeast side of the building. However concentrations of petroleum below MTCA Method A were also detected in other locations.

FINDINGS

Field observations and activities.

In fall of 2013, the building was demolished and soils were removed in November and December, 2013. As part of site preparation for future construction, all soils were removed to an average depths of about 13-feet below ground surface. As a construction expedient, any soils exhibiting staining or petroleum orders were excavated and disposed of off site. Field screening of soils was accomplished by means of by means of a photo-ionization detector, as well as visual and olfactory methods.

A environmental survey of the site was conducted on December 3, 2013. Remaining in-place soils were field screened at approximately 15 foot intervals across the site, with additional emphasis in previously identified suspect areas. At that time, no site soils remaining in place exhibited indications of petroleum impacts, such as staining or odors.

Four soil samples were collected for laboratory analysis. Each of the sample results were below laboratory method detection limits. The laboratory report is attached.

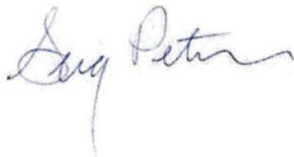
CONCLUSIONS

At the time of our December 3, 2013 site evaluation no site soils remaining in place exhibited visual or olfactory indications of petroleum products. Additionally, four soil samples collected from the areas most likely to be impacted were below laboratory method detection limits.

Based on these results, there are no indications that detectable concentrations of petroleum products remain on site. No further evaluation of site soils is warranted or necessary at this time.

Basalt appreciates the opportunity to be of service on this project. Should you have any questions concerning this report please contact the undersigned at (206) 399-7224.

Respectfully submitted,
Basalt Environmental, LLC.



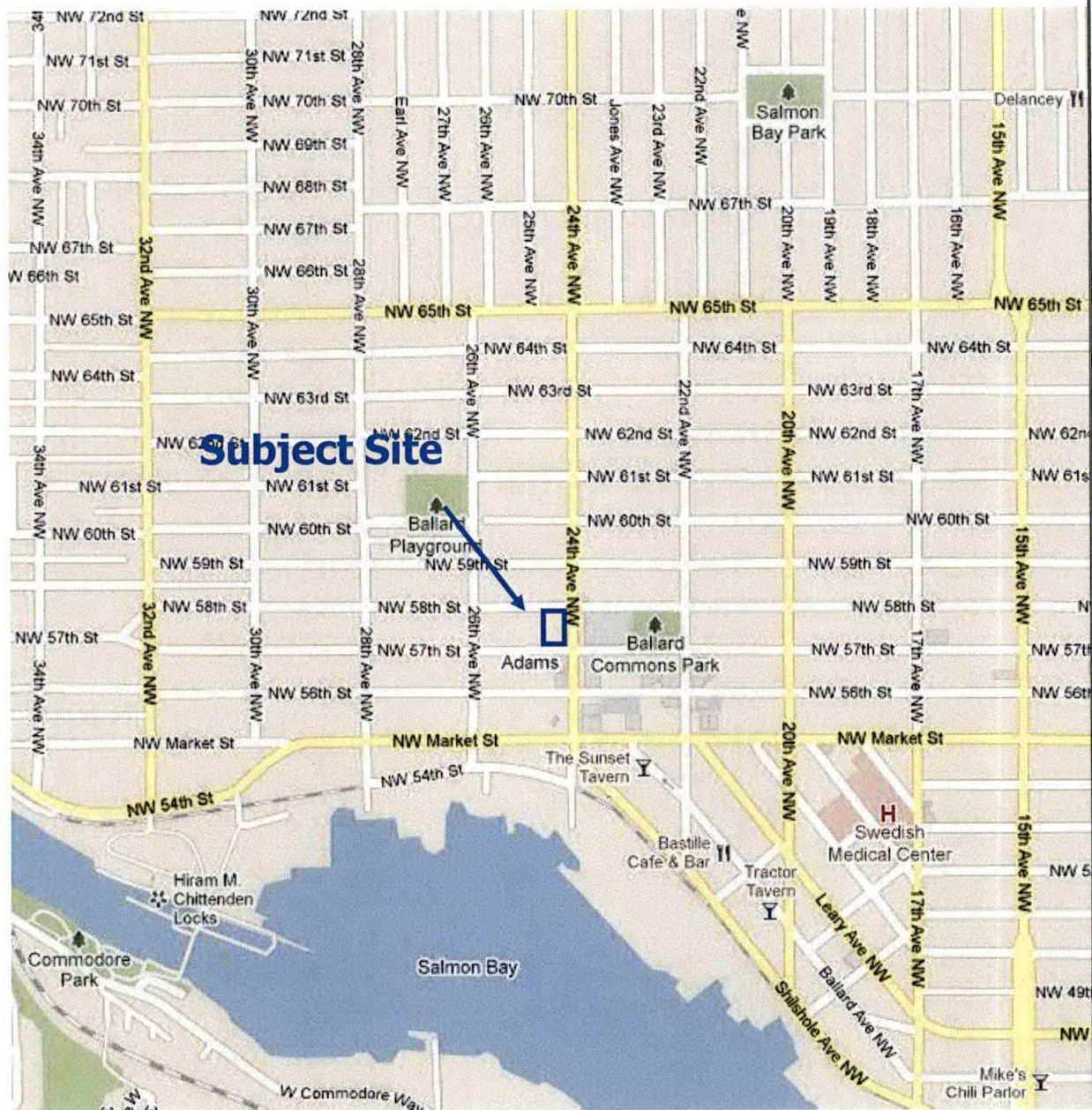
Gregory S. Peterson
Principal

GSP/gsp

Figures: Site Vicinity Map
 Topographic Map
 Site and Exploration Plan
 Post Excavation Sampling Results

Attachment: Laboratory Report

Figures



LOCATION MAP

Source: Google Maps, No scale

N↑



68 20 36th Ave. NE
Seattle, WA 98115

Site Name: Former Ballard Library
5711 24th Avenue NW
Seattle, WA
Project Number: 110421-1



TOPOGRAPHIC MAP

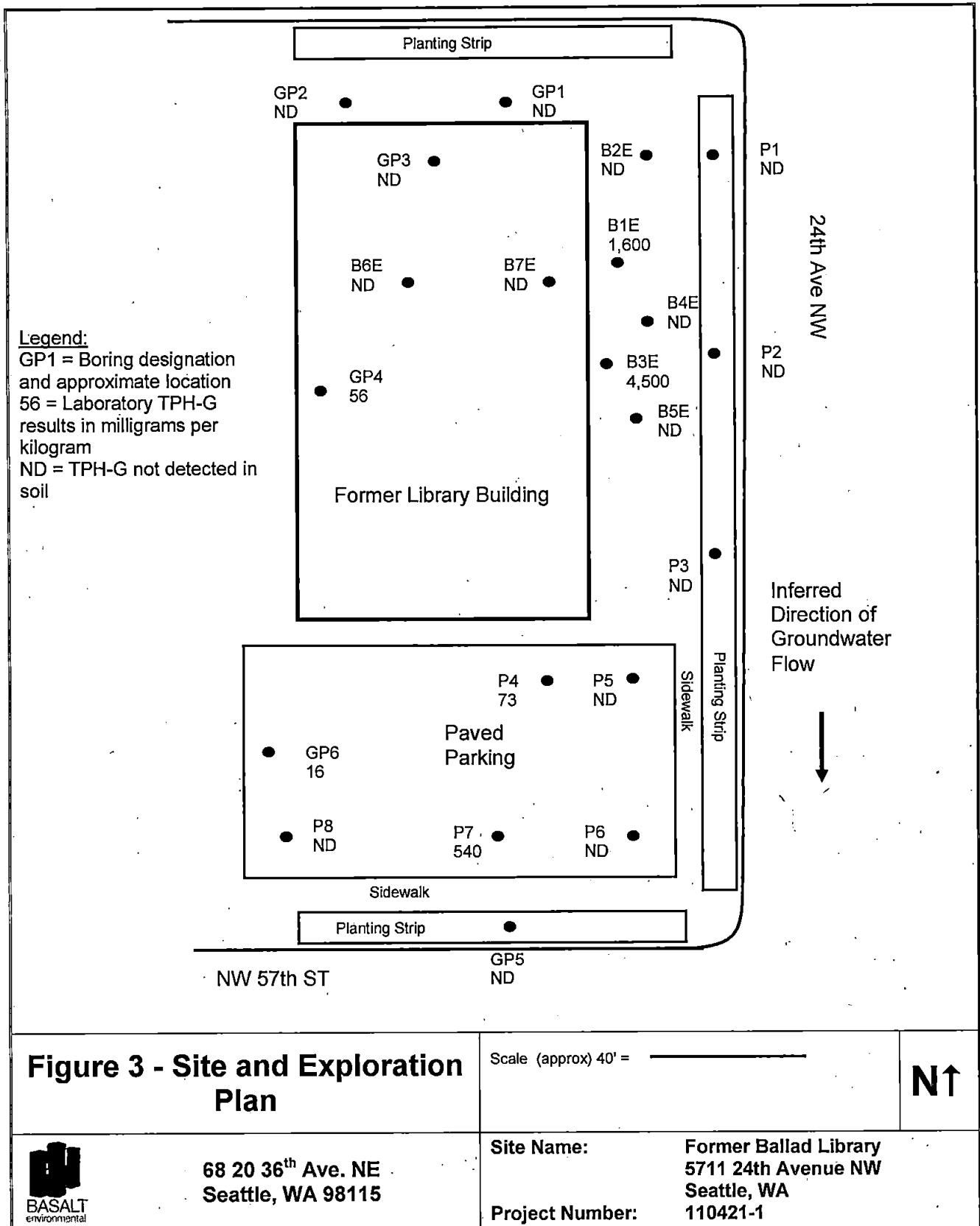
Source: USGS 7.5 Minute Topographic Map, Seattle North Quadrangle, 1995

N↑



68 20 36th Ave. NE
Seattle, WA 98115

Site Name: Former Ballard Library
5711 24th Avenue NW
Seattle, WA
Project Number: 110421-1



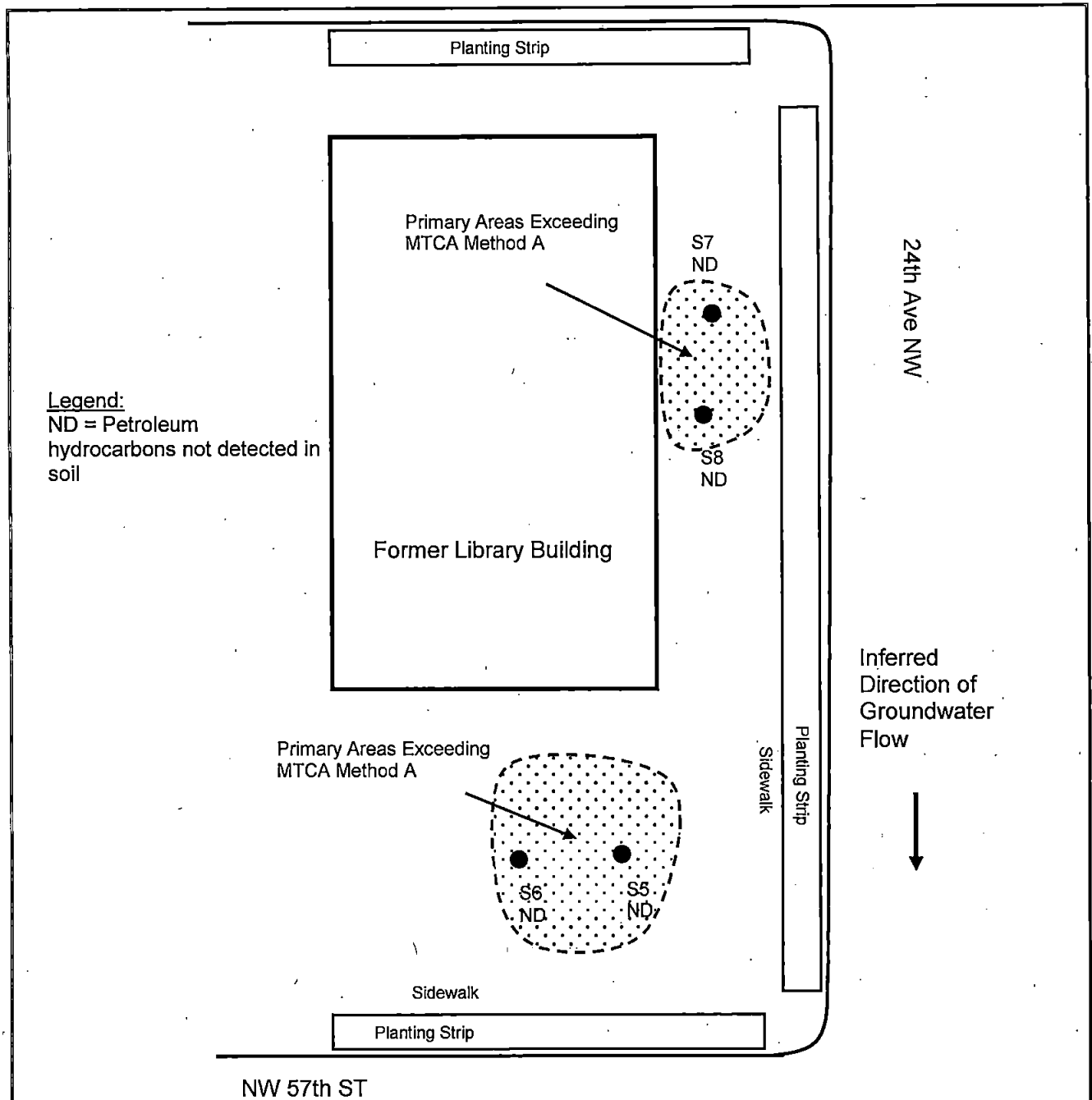


Figure 4 - Post Excavation Sampling Results

Scale (approx) 40' =

N↑



68 20 36th Ave. NE
 Seattle, WA 98115

Site Name: Former Ballard Library
 5711 24th Avenue NW
 Seattle, WA

Project Number: 110421-1

References

Basalt Environmental, LLC "Limited Phase II Evaluation, Former Ballard Library," June 15, 2011.

Geotech Consultants, Inc. "Phase II Site Assessment, Former Ballard Library Property, 5711 24th Avenue Northwest," February 6, 2006.

Shannon & Wilson, Inc. "Phase I and Phase II Site Assessment, Ballard Library, Seattle, Washington," February 2005



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

December 3, 2013

Greg Peterson
Basalt Environmental Consulting, L.L.C.
6820 36th Avenue NE
Seattle, WA 98115

Re: Analytical Data for Project 131008-1
Laboratory Reference No. 1311-236

Dear Greg:

Enclosed are the analytical results and associated quality control data for samples submitted on November 27, 2013.

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 horizontal line.

David Baumeister
Project Manager

Enclosures

Date of Report: December 3, 2013
Samples Submitted: November 27, 2013
Laboratory Reference: 1311-236
Project: 131008-1

Case Narrative

Samples were collected on November 25, 2013 and received by the laboratory on November 27, 2013. 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: December 3, 2013
 Samples Submitted: November 27, 2013
 Laboratory Reference: 1311-236
 Project: 131008-1

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S5					
Laboratory ID:	11-236-01					
Gasoline Range Organics	ND	23	NWTPH-HCID	12-2-13	12-2-13	
Diesel Range Organics	ND	57	NWTPH-HCID	12-2-13	12-2-13	
Lube Oil Range Organics	ND	120	NWTPH-HCID	12-2-13	12-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	S6					
Laboratory ID:	11-236-02					
Gasoline Range Organics	ND	22	NWTPH-HCID	12-2-13	12-2-13	
Diesel Range Organics	ND	56	NWTPH-HCID	12-2-13	12-2-13	
Lube Oil Range Organics	ND	110	NWTPH-HCID	12-2-13	12-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				
Client ID:	S7					
Laboratory ID:	11-236-03					
Gasoline Range Organics	ND	23	NWTPH-HCID	12-2-13	12-2-13	
Diesel Range Organics	ND	57	NWTPH-HCID	12-2-13	12-2-13	
Lube Oil Range Organics	ND	110	NWTPH-HCID	12-2-13	12-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
Client ID:	S8					
Laboratory ID:	11-236-04					
Gasoline Range Organics	ND	23	NWTPH-HCID	12-2-13	12-2-13	
Diesel Range Organics	ND	56	NWTPH-HCID	12-2-13	12-2-13	
Lube Oil Range Organics	ND	110	NWTPH-HCID	12-2-13	12-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Date of Report: December 3, 2013
 Samples Submitted: November 27, 2013
 Laboratory Reference: 1311-236
 Project: 131008-1

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1202S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	12-2-13	12-2-13	
Diesel Range Organics	ND	50	NWTPH-HCID	12-2-13	12-2-13	
Lube Oil Range Organics	ND	100	NWTPH-HCID	12-2-13	12-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Date of Report: December 3, 2013
Samples Submitted: November 27, 2013
Laboratory Reference: 1311-236
Project: 131008-1

% MOISTURE

Date Analyzed: 12-2-13

Client ID	Lab ID	% Moisture
S5	11-236-01	13
S6	11-236-02	11
S7	11-236-03	12
S8	11-236-04	11



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



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: BASALT
Project Number: 131003-1
Project Name: BALLARD LIBRARY
Project Manager: GSF
Sampled by: GSF

Turnaround Request
(in working days)

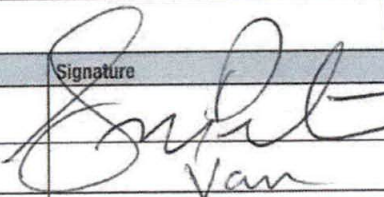

(Check One)

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

Laboratory Number:

11-236

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	S5	11-25-13	16:05	S	2	X															
2	S6	11-25-13	16:10	S	1	X															
3	S7	11-25-13	16:25	S	1	X															
4	S8	11-25-13	16:30	S	1	X															

Signature	Company	Date	Time	Comments/Special Instructions
	BASALT	11-27-13	3:50	
Van	SPRY	11-27-13	3:50	
Van	SPRY	11-27-13	4:45	
	OSG	11/27/13	16:45	
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		

Data Package: Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐