

April 6, 2022

Hector Soto Bravo Environmental Services 6437 South 144th Street Tukwila, WA 98188

Re: Analytical Data for Project PNW KL Construction Laboratory Reference No. 2203-334

Dear Hector:

Enclosed are the analytical results and associated quality control data for samples submitted on March 29, 2022.

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,

David Baumeister Project Manager

Enclosures



Date of Report: April 6, 2022 Samples Submitted: March 29, 2022 Laboratory Reference: 2203-334 Project: PNW KL Construction

#### **Case Narrative**

Samples were collected on March 29, 2022 and received by the laboratory on March 29, 2022. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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.

#### Total Metals EPA 6010D/7471B Analysis

The sample was air dried until it reached a constant weight.

Due to limited sample volume, a Spike Blank, Spike Blank Duplicate was used for quality control.

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.



#### TOTAL METALS EPA 6010D/7471B

Matrix: Solid Units: mg/Kg (ppm)

	,			Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	Oily Stormwater Soil Solids					
Laboratory ID:	03-334-01					
Arsenic	11	10	EPA 6010D	4-4-22	4-5-22	
Barium	99	2.6	EPA 6010D	4-4-22	4-5-22	
Cadmium	3.6	0.52	EPA 6010D	4-4-22	4-5-22	
Chromium	26	0.52	EPA 6010D	4-4-22	4-5-22	
Copper	110	1.0	EPA 6010D	4-4-22	4-5-22	
Lead	97	5.2	EPA 6010D	4-4-22	4-5-22	
Mercury	ND	0.26	EPA 7471B	4-5-22	4-5-22	
Molybdenum	ND	5.2	EPA 6010D	4-4-22	4-5-22	
Nickel	10	2.6	EPA 6010D	4-4-22	4-5-22	
Selenium	ND	10	EPA 6010D	4-4-22	4-5-22	
Silver	ND	1.0	EPA 6010D	4-4-22	4-5-22	
Zinc	310	2.6	EPA 6010D	4-4-22	4-5-22	



#### TOTAL METALS EPA 6010D/7471B QUALITY CONTROL

Matrix: Solid Units: mg/Kg (ppm)

0 0 0 1 7				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404SH1					
Arsenic	ND	10	EPA 6010D	4-4-22	4-5-22	
Barium	ND	2.5	EPA 6010D	4-4-22	4-5-22	
Cadmium	ND	0.50	EPA 6010D	4-4-22	4-5-22	
Chromium	ND	0.50	EPA 6010D	4-4-22	4-5-22	
Copper	ND	1.0	EPA 6010D	4-4-22	4-5-22	
Lead	ND	5.0	EPA 6010D	4-4-22	4-5-22	
Molybdenum	ND	5.0	EPA 6010D	4-4-22	4-5-22	
Nickel	ND	2.5	EPA 6010D	4-4-22	4-5-22	
Selenium	ND	10	EPA 6010D	4-4-22	4-5-22	
Silver	ND	1.0	EPA 6010D	4-4-22	4-5-22	
Zinc	ND	2.5	EPA 6010D	4-4-22	4-5-22	
Laboratory ID:	MB0405S2					
Mercury	ND	0.25	EPA 7471B	4-5-22	4-5-22	

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	SB04	04SH1									
	SB	SBD	SB	SBD		SB	SBD				
Arsenic	91.5	92.0	100	100	ND	92	92	75-125	0	20	
Barium	102	102	100	100	ND	102	102	75-125	0	20	
Cadmium	47.4	46.9	50.0	50.0	ND	95	94	75-125	1	20	
Chromium	94.7	94.4	100	100	ND	95	94	75-125	0	20	
Copper	56.1	55.7	50.0	50.0	ND	112	111	75-125	1	20	
Lead	267	266	250	250	ND	107	107	75-125	0	20	
Molybdenum	49.5	49.4	50.0	50.0	ND	99	99	75-125	0	20	
Nickel	101	101	100	100	ND	101	101	75-125	0	20	
Selenium	98.5	99.0	100	100	ND	99	99	75-125	1	20	
Silver	23.9	23.0	25.0	25.0	ND	95	92	75-125	4	20	
Zinc	97.2	96.5	100	100	ND	97	97	75-125	1	20	
Laboratory ID:	SB04	405S2									
	SB	SBD	SB	SBD		SB	SBD				
Mercury	0.487	0.503	0.500	0.500	ND	97	101	80-120	3	20	



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#### **VOLATILE ORGANICS EPA 8260D**

Liquid Matrix: Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	Oily Stormwater BTES	6				
Laboratory ID:	03-334-02					
Benzene	40	10	EPA 8260D	3-31-22	3-31-22	
Toluene	200	50	EPA 8260D	3-31-22	3-31-22	
Ethylbenzene	26	10	EPA 8260D	3-31-22	3-31-22	
m,p-Xylene	230	20	EPA 8260D	3-31-22	3-31-22	
o-Xylene	220	10	EPA 8260D	3-31-22	3-31-22	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	75-127				
Toluene-d8	95	80-127				
4-Bromofluorobenzene	95	78-125				



#### VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0331W1					
Benzene	ND	0.20	EPA 8260D	3-31-22	3-31-22	
Toluene	ND	1.0	EPA 8260D	3-31-22	3-31-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-31-22	3-31-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-31-22	3-31-22	
o-Xylene	ND	0.20	EPA 8260D	3-31-22	3-31-22	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	96	75-127				
Toluene-d8	94	80-127				
4-Bromofluorobenzene	93	78-125				

					Pe	rcent	Recovery		RPD	
Analyte	Result		Spike	Level	Rec	Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB033	31W1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.33	9.91	10.0	10.0	93	99	78-125	6	19	
Benzene	9.19	9.84	10.0	10.0	92	98	80-119	7	16	
Trichloroethene	9.48	10.8	10.0	10.0	95	108	80-121	13	18	
Toluene	9.02	10.0	10.0	10.0	90	100	80-117	10	18	
Chlorobenzene	9.53	10.8	10.0	10.0	95	108	80-117	12	17	
Surrogate:										
Dibromofluoromethane					99	93	75-127			
Toluene-d8					93	93	80-127			
4-Bromofluorobenzene					95	93	78-125			



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#### % MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
Oily Stormwater Soil Solids	03-334-01	92	3-30-22



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#### **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.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, 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.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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PAUN KL Construction,	2 Da	ays [	3 Days			[] 09		dn-						181	s 827	8151					0	3	e	
Project Name: Cleanout, Stormwater	Star	ndard (7 Days)		ers		021 82		G Clean	0000	2 820U	ers Only)	WI (	-level)	icides 80	Pesticide	rbicides				) 1664	N	00	2/05	
Project Manager: Hector Sob	m C	5-6		Intain		TEX (8		cid / S	-1-4	olatile	I (Wate	3270/S	M (low	e Pest	SUDO	cid He	etals	etals		grease	2	Xi	R	
Sampled by: Hechr Sch		(other)		er of Co	H-HCID	H-Gx/B	H-GX	H-Dx (A	s 8260	inated v	PA 801	olatiles {	3270/SII	ouoz	lasohad	nated A	ICRA M	ITCA M	Metals	oil and g	ki,	11	4	sture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Numbe	NWTP	NWTPI	NWTPI	NWTP	Volatile	Haloge	EDB E	Serniv( (with Ic	PAHS	Ordand	Ordano	Chlorir	Total R	Total N	TCLP	HEM (c	3	D.	asin	% Moi
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Signature		Company				Date	1	/	Time			Com	ments	s/Spec	ial In	structi	ons			1				
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Received				_								Data	Pack	age:	Stan	dard		evel II		Leve	el IV [	]		
Reviewed/Date		Reviewed/Da	ate	_								Chro	matog	grams	with	final r	eport	E	lectror	nic Dat	ta Deliv	verables	s (EDDs	s) 🗌

# 9070-b

PRS Group, Inc. 3003 Taylor Way Tacoma, WA 98421	VASTE PROFILE Storm system waste	Phone 253-383-4175 jay@prsplant.net							
Sample Provided 9070-b MSDS , Profile#: A	,/ Analytical Report <u>&gt;roved By</u> : Jay Johnson Digitally signed by Jay Johnson Digitally signed by Jay Johnson Digitally signed by Jay Johnson Digitally signed by Jay Johnson	Date Active:							
Oily stormwater and sludge	Process generating waste:	Process generating waste: Storm system cleaning							
	Generator Information:								
Generator Name: PNW KL Construction	PRS Customer Name: Bravo B	nvironmental							
Technical Contact: Kenneth Banghart	Technical Contact: Deena	Aldrich							
Site Address: 18315 196th Ave SE	Mailing Address: 6437 s	. 144th Street							
City: Renton State: WA 98D58	City: Tukwila State: WA 9	B16B							
<b>Phone Number:</b> 425-772-8525	Phone Number: 425-42	4-9000							
E Mail Address: pnwklconstruc:;tion@gmail.com	E Mail Address: daldrid	h@bnravoenvironmenta I.com							

## **PHYSICAL & CHEMICAL CHARACTERISTICS OF WASTE**

black brown

**Odor** <u>mild</u> <u>oil</u> **Flash** ><u>140</u> pH 5<u>-9</u>

Layers tw\_o\_ Chlorinated <u>NS</u> PCBs <u>NS</u>

## **WASTE MATRIX - Estimated percentages**

Oily storm/wash water	50 0/o to 50
sludge	50 % to <b>50</b>
	o/o to
	0/o <b>to</b>
	O/o to

Lab Results - Total Heavy Metals -Report Date: 4/6/2022

8°/o SLUDGE TESTF

Cadmium	n •,,	3.6	PPM	Chromiun	<b>V</b>	26	PPM	Copper	V	11Q ppm	Lead	<b>t</b> / 97	PPM	Molybdenum	V	nd	<b>P</b> 1)
Nickel	V	10	PPM	Zinc	V	310	PPM	Category A			ategory 1	B <b>V</b>		2ategory C			

## Shipping Information

Containers:			Bulk:	İv	Bravo Trk	Quantity	To Ship:	1800 gallons	Frequency: one time even
DOT Shippin	ng I	Description:	Materia	al r	not regulated by	DOT	Treatment:	floe, prec	ip, stab

### **Generator Certification:**

By signing this profile sheet, the generator (representative or agent) certifies that **all** of the information submitted on this profile, attached documentation, and any clarifications, additions or modifications made, are correct and true. In addition, generator agrees to the following requirements and conditions:

- 1. The generator or the person arranging the disposal of the waste being tendered has personal knowledge of the contents of the waste stream and does not suspect or know of any 11azardous or dangerous wastes that may be connected in any manner with the waste stream being tendered herewith, including but not limited to any measurable quantities of P<)lychlorinated biphenyls (PCB's), Washington state listed, <u>Dangerous</u>, or Hazardous Waste, nor any US EPA hazardous, or dangerous wastes or by reference to US EPA rules 40 CFR Part 261, subpart C.
- 2. All relevant information that may give light as to the designation of this waste stream has been made available to PRS. The signer certifies the profile sheet, associated questionnaire and attendant docwnents are accurate, true and correct.
- 3. When samples arc required of the generator or agent the sample is certified to be representative, true and accurate sample of the waste stream
- 4. Generator and/or arranger agree to be responsible for an indemnity and hold PRS harmless and indemnify PRS for any damages, expenses, processing non-eonforming wastes to PR S.
- 5. PRS will take sam ains) all <u>analyze</u> waste materials tendered. Internal sampling and analysis is the sole property of PRS Group.



Printed Name: Kenneth Banghart Tit

Date: