

TECHNICAL MEMORANDUM

Date: May 12, 2017 RGI Project Number: 2012-107L

To: Mr. Michael Warfel

Washington Department of Ecology

Northwest Regional Office 3190 160th Avenue Southeast Bellevue, Washington 98008

cc: Mr. Matt Segrest

Alamo Manhattan Bellevue, LLC

From: Ms. Anna Jordan/ Mr. Paul Riley

The Riley Group, Inc.

Subject: Groundwater Evaluation

Main Street Apartments Development

10505 Main Street

Bellevue, Washington 98004 Ecology VCP No. NW2811

The Riley Group, Inc. (RGI) has been retained by Alamo Manhattan Bellevue, LLC (Alamo Manhattan) to manage environmental issues pertaining to the Main Street Development project located at 10505 Main Street in Bellevue, Washington (herein referred to as the Property). The location of the Property and significant features are depicted on the attached Figure 1.

The Property is currently owned by Alamo Manhattan and has been enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP) since December of 2013. The Property is identified by Ecology as the Alamo Manhattan Main Street project (VCP No. NW2811).

BACKGROUND

Several previous investigations, including a completed cleanup action, have been performed on the Property. The following reports and correspondence pertaining to environmental investigations previously conducted for the Property:

- Further Action at the following Site: Alamo Manhattan Main Street (Ecology June 6, 2016 Opinion Letter).
- ➤ Groundwater Characterization Report, Alamo Manhattan Main Street (Groundwater Characterization Report) dated July 22, 2015.
- Foundwater Characterization Work Plan, Alamo Manhattan Main Street (Groundwater Characterization Report) dated October 30, 2014.

Corporate Office

17522 Bothell Way Northeast Bothell, Washington 98011 Phone 425.415.0551 ♦ Fax 425.415.0311

- Remedial Action Report, Main Street Apartments Development (RA report) dated June 13, 2014.
- Excavation Work Plan, Main Street Development (Excavation Work Plan) dated July 17, 2013 by RGI.
- Phase I Environmental Site Assessment Update Report (Phase I ESA Update) Main Street Development dated June 26, 2013 by RGI.
- Additional Groundwater Monitoring Well Installation and Sampling Report (Well and Sampling Report) Proposed Main Street Development dated June 19, 2013 by RGI.
- ➤ Phase II Subsurface Investigation Report (Phase II); Proposed Main Street Development dated July 24, 2012 by RGI.
- Phase I Environmental Site Assessment Report (Phase I ESA); Aaron Bothers Retail Property dated March 21, 2012 by RGI.

The history of the Property and details pertaining to environmental investigations are described in the above-referenced documents and the reader should refer to these documents in their entirety for details pertaining to these investigations. Additionally, all of the above-mentioned documents prepared by RGI have been submitted to Ecology for review.

GROUNDWATER EVALUATION

Groundwater Sampling

On May 4, 2017 RGI collected groundwater samples from wells RW-1 and RW-2 situated in the parking garage of the Property building. Prior to sampling, water levels in each well were measured relative to the northernmost point of the well casing. After collection of water level data, each well was purged using a submersible pump and dedicated tubing. RGI also recorded measurements of temperature, conductivity, and pH during purging. Each well was purged dry twice and allowed to recharge then sampled using standard low-flow sampling methodology. Groundwater samples were placed in an iced cooler and transferred to the laboratory in accordance with standard chain of custody protocols.

Groundwater Analytical Results

As discussed in advance with Ecology, groundwater samples collected from wells RW1 and RW2 were submitted to ALS Environmental Laboratory (ALS) in Everett for the following analyses:

- ➤ Diesel-range Total Petroleum Hydrocarbons using Ecology Method NWTPH-Dx (without silica gel).
- Volatile Petroleum Hydrocarbons (VPH) and hexane using Method NWVPH.
- Extractable Petroleum Hydrocarbons (EPH) using Method NWEPH.

Analytical results including historical groundwater data obtained from groundwater monitoring wells RW-1 and RW-2 are illustrated on Figure 1 and discussed below. Analytical results from these samples indicated that groundwater in RW-1 and RW-2 both contained concentrations of diesel-range TPH at 260 micrograms/liter (μ g/L). These concentrations are below the Property specific cleanup level (684 μ g/L) that was calculated using the MTCA Method B Evaluation in January 2017.



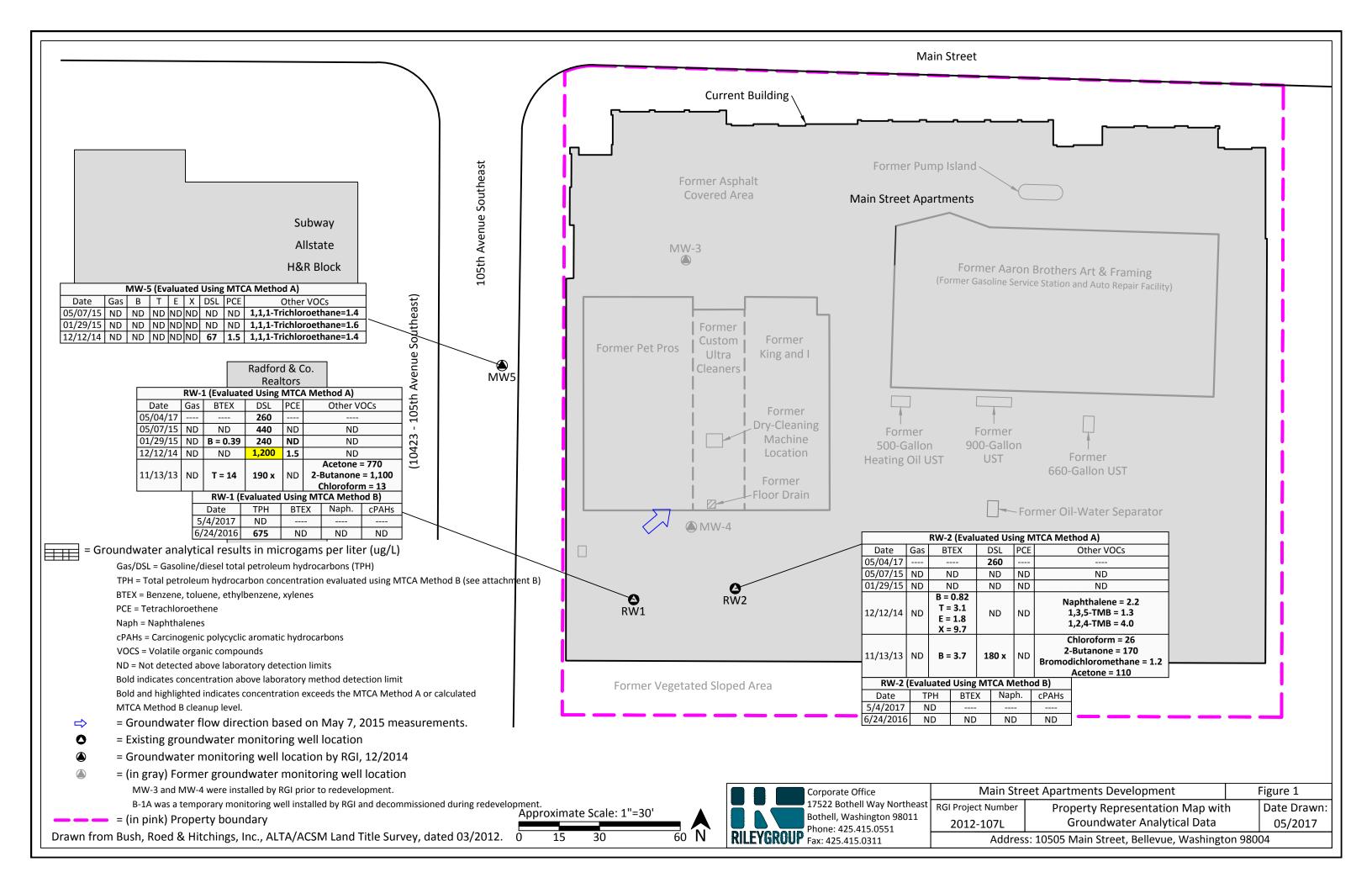
Both samples from RW-1 and RE-2 were also analyzed for EPH/VPH with the intention of performing the Method B Evaluation. Both samples had non-detectable concentrations (non-detect) of the various aliphatic and aromatic carbon ranges. Since results were non-detect, the Method B evaluation was not warranted at this time.

Please do not hesitate to contact us at 425-415-0551 with any questions or comments regarding this Technical Memorandum.

Attachments: Figure 1, Property Representation Map

Attachment A, Groundwater Analytical Laboratory Report







May 9, 2017

Mr. Jerry Sawetz The Riley Group, Inc. 17522 Bothell Way NE, Suite A Bothell, WA 98011

Dear Mr. Sawetz,

On May 4th, 2 samples were received by our laboratory and assigned our laboratory project number EV17050038. The project was identified as your 2012-107L. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan

Laboratory Director

Environmental 🚂



CLIENT: The Riley Group, Inc.

DATE: 5/9/2017 17522 Bothell Way NE, Suite A ALS JOB#: EV17050038

Bothell, WA 98011

ALS SAMPLE#: EV17050038-01 **CLIENT CONTACT:** Jerry Sawetz DATE RECEIVED: 05/04/2017

CLIENT PROJECT: 2012-107L **COLLECTION DATE:** 5/4/2017 1:10:00 PM

CLIENT SAMPLE ID RW₁ WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C6-C8 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C8-C10 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C8-C10 Aromatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
Hexane	NWVPH	U	1.0	1	UG/L	05/05/2017	PAB
TPH-Diesel Range	NWTPH-DX	260	130	1	UG/L	05/05/2017	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	05/05/2017	EBS
>C8-C10 Aliphatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C10-C12 Aliphatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C12-C16 Aliphatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C16-C21 Aliphatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C21-C34 Aliphatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C8-C10 Aromatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C10-C12 Aromatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C12-C16 Aromatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C16-C21 Aromatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS
>C21-C34 Aromatics	NWEPH	ND- F1	60	1	UG/L	05/08/2017	EBS

0110000477	METUOD	a/ DE0	ANALYSIS ANALYSIS DATE BY
SURROGATE	METHOD	%REC	
TFT - Aliphatic	NWVPH	107	05/05/2017 PAB
TFT - Aromatic	NWVPH	113	05/05/2017 PAB
TFT - Hexane	NWVPH	110	05/05/2017 PAB
C25	NWTPH-DX	114	05/05/2017 EBS
C25	NWEPH	96.0	05/08/2017 EBS
p-Terphenyl	NWEPH	90.0	05/08/2017 EBS

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains highly weathered diesel.

F1 - Reporting limit for compound raised due to low sample amount.



CLIENT: The Riley Group, Inc.

DATE: 5/9/2017 17522 Bothell Way NE, Suite A ALS JOB#: EV17050038

ALS SAMPLE#:

EV17050038-02

Bothell, WA 98011

CLIENT CONTACT: Jerry Sawetz DATE RECEIVED: 05/04/2017

CLIENT PROJECT: 2012-107L **COLLECTION DATE:** 5/4/2017 1:10:00 PM

CLIENT SAMPLE ID RW 2 WDOE ACCREDITATION: C601

		SVMDI E	DATA RESULTS		2301		
		SAIVIPLE	DATA RESULTS				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C6-C8 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C8-C10 Aliphatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
>C8-C10 Aromatics	NWVPH	U	50	1	UG/L	05/05/2017	PAB
Hexane	NWVPH	U	1.0	1	UG/L	05/05/2017	PAB
TPH-Diesel Range	NWTPH-DX	260	130	1	UG/L	05/05/2017	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	05/05/2017	EBS
>C8-C10 Aliphatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C10-C12 Aliphatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C12-C16 Aliphatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C16-C21 Aliphatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C21-C34 Aliphatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C8-C10 Aromatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C10-C12 Aromatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C12-C16 Aromatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C16-C21 Aromatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
>C21-C34 Aromatics	NWEPH	U	50	1	UG/L	05/08/2017	EBS
01100000		0/750				ANALYSIS DATE	ANALYSIS BY
SURROGATE	METHOD	%REC					
TFT - Aliphatic	NWVPH	104				05/05/2017	PAB
TFT - Aromatic	NWVPH	112				05/05/2017	PAB
TFT - Hexane	NWVPH	106				05/05/2017	PAB

·					
p-Terphenyl	NWEPH	93.0	05/08/2017	EBS	
C25	NWEPH	103	05/08/2017	EBS	
C25	NWTPH-DX	104	05/05/2017	EBS	
TFT - Hexane	NWVPH	106	05/05/2017	PAB	
TFT - Aromatic	NWVPH	112	05/05/2017	PAB	
TFT - Aliphatic	NWVPH	104	05/05/2017	PAB	

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains highly weathered diesel.



CLIENT: The Riley Group, Inc. DATE: 5/9/2017

17522 Bothell Way NE, Suite A ALS SDG#: EV17050038

WDOE ACCREDITATION:

C601

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Bothell, WA 98011

CLIENT CONTACT: Jerry Sawetz CLIENT PROJECT: 2012-107L

LABORATORY BLANK RESULTS

MBLK-294361 - Batch R294361 - Water by NWVPH

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
C5-C6 Aliphatics	NWVPH	U	UG/L	50	05/05/2017	PAB
>C6-C8 Aliphatics	NWVPH	U	UG/L	50	05/05/2017	PAB
>C8-C10 Aliphatics	NWVPH	U	UG/L	50	05/05/2017	PAB
>C8-C10 Aromatics	NWVPH	U	UG/L	50	05/05/2017	PAB
Hexane	NWVPH	U	UG/L	1.0	05/05/2017	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

MB-050417W - Batch 115982 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range	NWTPH-DX	U	UG/L	130	05/05/2017	EBS	
TPH-Oil Range	NWTPH-DX	U	UG/L	250	05/05/2017	EBS	

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-294365 - Batch R294365 - Water by NWEPH

ANALYTE	METHOD	RESULTS	UNITS	LIMITS	ANALYSIS DATE	ANALYSIS BY
>C8-C10 Aliphatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C10-C12 Aliphatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C12-C16 Aliphatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C16-C21 Aliphatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C21-C34 Aliphatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C8-C10 Aromatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C10-C12 Aromatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C12-C16 Aromatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C16-C21 Aromatics	NWEPH	U	UG/L	50	05/08/2017	EBS
>C21-C34 Aromatics	NWEPH	U	UG/L	50	05/08/2017	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: The Riley Group, Inc. DATE: 5/9/2017

17522 Bothell Way NE, Suite A ALS SDG#: EV17050038

Bothell, WA 98011 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jerry Sawetz CLIENT PROJECT: 2012-107L

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R294361 - Water by NWVPH

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
C5-C6 Aliphatics - BS	NWVPH	90.0		70	130	05/05/2017	PAB
C5-C6 Aliphatics - BSD	NWVPH	96.0	6	70	130	05/05/2017	PAB
>C6-C8 Aliphatics - BS	NWVPH	89.0		70	130	05/05/2017	PAB
>C6-C8 Aliphatics - BSD	NWVPH	95.0	7	70	130	05/05/2017	PAB
>C8-C10 Aliphatics - BS	NWVPH	89.0		70	130	05/05/2017	PAB
>C8-C10 Aliphatics - BSD	NWVPH	90.0	1	70	130	05/05/2017	PAB
>C8-C10 Aromatics - BS	NWVPH	94.0		70	130	05/05/2017	PAB
>C8-C10 Aromatics - BSD	NWVPH	97.0	3	70	130	05/05/2017	PAB
Hexane - BS	NWVPH	87.3		70	130	05/05/2017	PAB
Hexane - BSD	NWVPH	92.7	6	70	130	05/05/2017	PAB

ALS Test Batch ID: 115982 - Water by NWTPH-DX

				LIN	IITS	ANALYSIS	ANALYSIS BY	
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE		
TPH-Diesel Range - BS	NWTPH-DX	89.2		67	125.2	05/05/2017	EBS	
TPH-Diesel Range - BSD	NWTPH-DX	92.3	3	67	125.2	05/05/2017	EBS	

ALS Test Batch ID: R294365 - Water by NWEPH

ALS 1650 Batch ID. 1125450	33 - Water by Itt	V		LIN	MITS	ANALYSIS	ANALYSIS BY	
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE		
>C8-C10 Aliphatics - BS	NWEPH	97.0		70	130	05/08/2017	EBS	
>C8-C10 Aliphatics - BSD	NWEPH	93.0	4	70	130	05/08/2017	EBS	
>C10-C12 Aliphatics - BS	NWEPH	102		70	130	05/08/2017	EBS	
>C10-C12 Aliphatics - BSD	NWEPH	99.0	3	70	130	05/08/2017	EBS	
>C12-C16 Aliphatics - BS	NWEPH	105		70	130	05/08/2017	EBS	
>C12-C16 Aliphatics - BSD	NWEPH	102	3	70	130	05/08/2017	EBS	
>C16-C21 Aliphatics - BS	NWEPH	106		70	130	05/08/2017	EBS	
>C16-C21 Aliphatics - BSD	NWEPH	104	2	70	130	05/08/2017	EBS	
>C21-C34 Aliphatics - BS	NWEPH	104		70	130	05/08/2017	EBS	
>C21-C34 Aliphatics - BSD	NWEPH	100	4	70	130	05/08/2017	EBS	
>C8-C10 Aromatics - BS	NWEPH	101		70	130	05/08/2017	EBS	
>C8-C10 Aromatics - BSD	NWEPH	82.0	21	70	130	05/08/2017	EBS	
>C10-C12 Aromatics - BS	NWEPH	108		70	130	05/08/2017	EBS	
>C10-C12 Aromatics - BSD	NWEPH	95.0	13	70	130	05/08/2017	EBS	
>C12-C16 Aromatics - BS	NWEPH	115		70	130	05/08/2017	EBS	
>C12-C16 Aromatics - BSD	NWEPH	104	10	70	130	05/08/2017	EBS	
>C16-C21 Aromatics - BS	NWEPH	116		70	130	05/08/2017	EBS	
>C16-C21 Aromatics - BSD	NWEPH	108	7	70	130	05/08/2017	EBS	
>C21-C34 Aromatics - BS	NWEPH	91.0		70	130	05/08/2017	EBS	

Page 5

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626 | ALS Group USA, Corp dba ALS Environmental





The Riley Group, Inc. CLIENT: DATE: 5/9/2017

17522 Bothell Way NE, Suite A ALS SDG#: EV17050038

Bothell, WA 98011 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jerry Sawetz **CLIENT PROJECT:** 2012-107L

LABORATORY CONTROL SAMPLE RESULTS

LIMITS **ANALYSIS ANALYSIS BY**

%REC RPD QUAL DATE SPIKED COMPOUND **METHOD** MIN MAX >C21-C34 Aromatics - BSD NWEPH 83.0 130 05/08/2017 EBS

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APPROVED BY

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Phone (425) 356-2600 Fax (425) 356-2626 http://www.alsglobal.com 8620 Holly Drive, Suite 100 Everett, WA 98208 ALS Environmental ALS

Laboratory Analysis Request Chain Of Custody/

(Laboratory Use Only)	50038
ALS Job#	EV170

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ADDRESS: SAMPLE I.D. DATE TIME TYPE LAB#	NWTPH-HCID NWTPH-GX MWTPH-GX	Volatile Organic Semivolatile Organic Semivolatile Organic Semivolatile Organic Semivolatile Organic Semivolatile Organic	Metals Other (9	43 12		NUMBER O
1. RWI 6417 1310 1450 1	×			\times		%
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RECEIVED IN GOOD CONDITION?

SIGNATURES (Name, Company, Date, Time): Received By: Sawn Relinquished By:

Organic, Metals & Inorganic Analys Ø က 10 Standard

38

Fuels & Hydrocarbon Analysis 5 Standard

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RUST Specify:

TURNAROUND REQUESTED in Business Days*

"Turnaround request less than standard may incur Rush Charges

2. Relinquished By:

Received By: