



TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

TO:	Mr. Paul Buchannan
CC:	Mr. Michael Warfel, WDOE NWRO VCP
FROM:	Charles R. Lie, Terra Associates, Inc.
DATE:	June 27, 2018
RE:	Project Update Bellevue Park Apartments Terra Associates, Inc. Project T-6990-2 VCP Number NW2352

Paul,

This memo presents a summary of recent activity at the Bellevue Park Apartments site.

King County Industrial Waste Permit

During construction of the project, an industrial waste permit was obtained to allow the discharge of hydrocarbon impacted groundwater from the site. As outlined in our final report, dated March 19, 2015, the excavation was dewatered using vacuum trucks. No discharge to the sanitary sewer occurred. The footing drains and sub slab drains from the south side of the building are connected to a sump located near the southwest corner of the building. A riser was installed to allow a direct discharge to the sanitary sewer; however, no pump has been installed and to date, there has been no need to dewater the sump in the southwestern corner of the building. Concurrent with the construction of the building at Bellevue Park, a large project with several levels of underground parking was built southeast of the site. The construction of these two projects has resulted in a decline of the static water level and eliminated the need for post construction dewatering along the south margin of the Bellevue Park Apartments.

As shown in the email attached to this memo, the discharge permit has been extended to the spring of 2019.

Groundwater Sampling FMW-5

During the construction and monitoring of the Bellevue Park Apartments project, only static water levels were collected from two off-site monitoring wells. These off-site wells are FMW-5 that was constructed by Farallon Consulting in the city right-of-way south of the site and FMW-8 that is shown on Farallon Drawings as being within City of Bellevue Right-of-Way. The area of FMW-8 is actually within an area vacated by the adjacent property owner. To evaluate the current condition of the groundwater in an off-site well, Terra Associates, Inc. obtained a street use permit from the City of Bellevue to stand in the right-of-way and sample FMW-5. FMW-5 was sampled on June 11, 2018 using a submersible stainless steel pump and low flow sampling techniques. During purging standard groundwater parameters were obtained. The sample was delivered to the laboratory of OnSite Environmental for analysis for gasoline and gasoline constituents.

Prior to purging, a product sensing sounder was used to evaluate the possible presence of free phase gasoline floating on top of the groundwater. The tape use is Heron Interface Meter 300'. No measurable free phase product was present in FMW-5.

The prior and current samples from FMW-5 are summarized in Table 1. The groundwater parameters are summarized on Table 2.

Date	Sampled By	Gasoline Range	Benzene	Toluene	Ethyl Benzene	Total Xylenes
5-6-08	Farallon	17,000	1,000	2,200	430	2,120
8-25-08	Farallon	4,800	1,200	580	170	740
8-25-08	Aspect	7,700	1,000	550	160	760
7-9-11	Farallon	8,500	1,600	1,100	270	1,000
6-11-18	Terra	7,500	870	11	320	537
MTCA N	Alethod A	800	5	1,000	700	1,000

Table 1FMW-5Groundwater Sample Summary

Notes for Table 1: Sample from 2018 taken by Terra Associates, Inc., prior samples taken by others. All levels are reported in micrograms per liter (µg/liter), parts per billion (ppb) equivalent.

Table 2 FMW-5

Groundwater Parameters

Time (Minutes)	Temp (Celsius)	DO (ppm)	COND (µS/cm)	pH Standard Units	ORP
1	16.46	1.09	330.9	8.27	-98.6
2	16.63	3.02	302.3	8.23	-106.3
3	16.58	3.26	301.1	8.13	-100.7
5	16.64	1.25	323.9	7.99	-93.4
7	16.73	0.48	336.5	7.87	-87.1
10	16.80	0.25	340.5	7.78	-82.3
15	16.85	0.26	336.4	7.74	-97.9
20	16.84	0.30	329.8	7.71	-78.7

Notes for Table 2:

Purge water remained clear throughout purge and sampling. Water displayed a moderate gasoline odor. Total purge volume was about five gallons.

Static Water Level Measurements

To document the current groundwater gradient, static water level measurements were made in the same monitoring wells that were measured for the prior work done by Terra Associates, Inc. The static water levels are shown in Table 3 attached to this report and on the Monitoring Well Location Plan, Figure 1. The static water levels and gradient is consistent with the prior measurements by Terra Associates, Inc. Figure 2 shows a cumulative summary of all readings for Monitoring Wells FMW-5 and FMW-7 over the past ten years.

Conclusions/Discussion

The data is consistent with prior measurements of groundwater flow. Nothing in this memo changes the opinions presented by Terra Associates, Inc. in prior memos and reports about this project.

This memo is prepared for the exclusive use of Bellevue Park Apartments, LLC and their authorized representatives.

Terra Associates, Inc.

Charles R. Lie L.H.G.

Project Manager



 Attachment:
 Table 3 – Static Water Level Summary

 Figure 1 – Monitoring well Location Plan

 Figure 2 – Static Water Elevation Summary

 Attachment 1 – Email with Extension of the Industrial Waste Permit

 Attachment 2 – Analytical Laboratory Report

Submitted via email only

Table 3
Static Water Level Summary

	Screened		5/2/	2008	6/6/2008		8/25/	2008	7/18/2011		7/9/2012		10/22/2014		11/5/2014	
Well	Interval (Depth in feet)	Elev. of MP	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-201	5.75-14.2	67.85														
MW-202	4.5-13.75	67.73														
MW-203	4.25-12.08	67.78														
FMW-5		95.26	24.81	70.45	24.8	70.46	26.83	68.43	23.66	71.6	24.7	70.56	30.33	64.93	28.64	66.62
FMW-7		94.68			24.62	70.06	25.7	68.98	22.28	72.4	23.79	70.89	28.27	66.41	29.98	64.7

Sei	Screened		11/14	/2014	12/29/2014		1/9/2	2015	1/20/2015		2/4/2015		2/13/2015	
Well	Interval (Depth in feet)	Elev. of MP	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-201	5.75-14.2	67.85	3.26	64.59	3.74	64.11	4.12	63.73	3.88	63.97	3.83	64.20	3.7	64.15
MW-202	4.5-13.75	67.73	3.25	64.48	3.4	64.33	4.36	63.37	3.95	63.78	3.84	63.89	3.73	64.00
MW-203	4.25-12.08	67.78	2.75	65.03	2.75	65.03	3.58	64.20	2.97	64.81	2.98	64.80	2.95	64.83
FMW-5		95.26	30.41	64.85	30.89	64.37	31.6	63.66	31.45	63.81	31.52	63.74	31.58	63.68
FMW-7		94.68	28.93	65.75	4	62.54	32.3	62.38	32.03	62.65	31.94	62.74	32.05	62.63

	Screened		4/3/2	2015	4/10/2015		5/7/	5/7/2015 7/21/		1/2015 8/20		2015	9/1	9/1/2015	
Well	Interval (Depth in feet)	Elev. of MP	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	
MW-201	5.75-14.2	67.85	4.54	63.31	3	64.85	3.6	64.25	3.98	63.87	4.28	63.57	4.6	63.25	
MW-202	4.5-13.75	67.73	3.91	63.82	3.43	64.30	3.99	63.74	4.2	63.53	4.67	63.06	4.33	63.40	
MW-203	4.25-12.08	67.78	2.73	65.05	3.61	64.17	3.90	63.88	4.57	63.21	4.71	63.07	3.73	64.05	
FMW-5		95.26	31.31	63.95	31.32	63.94	31.44	63.82	32.44	62.82	32.71	62.55	32.46	62.8	
FMW-7		94.68	32.03	62.65	32.09	62.59	32.2	62.48	32.83	61.85	32.95	61.73	32.97	61.71	
Sump	N/A	68.08							3.95	64.13	3.4	64.68	2.98	65.1	

	Screened		12/23	/2015	3/16/2	2016	3/22	/2016	6/15/	2016	9/14/2016		12/19/2016	
Well	Interval (Depth in feet)	Elev. of MP	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-201	5.75-14.2		4.34	63.51	3.98	63.87	3.61	64.24	4.02	63.83	4.2	63.65	4.21	63.64
MW-202	4.5-13.75	67.85	4.27	63.46	4.12	63.61	4.02	63.71	4.05	63.68	4.9	62.83	4.1	63.63
MW-203	4.25-12.08	67.73	4.15	63.63	3.28	64.50	3.04	64.74	3.75	64.03	4.62	63.16	3.87	63.91
FMW-5		67.78	32.02	63.24			31.2	64.06	32.42	62.84	32.53	62.73	31.85	63.41
FMW-7		95.26	32.55	62.13			31.98	62.7	31.8	62.88	32.93	61.75	32.32	62.36
Sump	N/A	94.68	2.61	65.47	2.85	65.23	2.95	65.13	4.45	63.63	5.15	62.93	4.52	63.56
SW-A		68.08					3.34	64.04						
SW-B		67.38					3.42	64.17						
SW-C		67.59					3.06	64.41						
SW-D		67.47					2.93	64.54						
SW-E		67.47					2.95	64.52						

	Screened		6/13/	/2017	6/7/2	2018
Well	Interval (Depth in feet)	Elev. of MP	Depth	Elev.	Depth	Elev.
MW-201	5.75-14.2		3.53	64.32	3.84	64.01
MW-202	4.5-13.75	67.85	3.56	64.167	4.1	63.627
MW-203	4.25-12.08	67.73	3.03	64.747	3.73	64.047
FMW-5		67.78	30.92	64.34	31.68	63.58
FMW-7		95.26	31.87	62.81	32.11	62.57
Sump	N/A	94.68	4.6	63.48	4.95	63.13
SW-A		68.08				
SW-B		67.38				
SW-C		67.59				
SW-D		67.47				
SW-E		67.47				







-7									
							FMW-7		
			V						
CTU2/2/6	1/2/2016	5/2/2016	9/2/2016	1/2/2017	5/2/2017	9/2/2017	1/2/2018	5/2/2018	
	3	STATI	C WA I BELL	TER BELL EVU	ELEV EVUE E, WA	(ATIO E PAR ASHIN	N SU K IGTO	MMAR N	Y
шġ	Pro	j. No.T	-6990-2	Dat	e JULY	2018		Figure 2	

ATTACHMENT 1

INDUSTRIAL WASTE EMAIL

Chuck Lie

From:	Eng, Lydia <lydia.eng@kingcounty.gov></lydia.eng@kingcounty.gov>
Sent:	Thursday, May 03, 2018 10:28 AM
То:	Chuck Lie
Subject:	RE: Late Report: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments - End-of-
	Project Report
Attachments:	Bellevu Park Apts SMR Form #3.docx

Hi Chuck,

Thank you for your explanation. As I understand, there is no hook-up to the sanitary sewer from the Bellevue Park Apartments' vault. However, any groundwater seepage that fills the vault will be tested for the pollutants of concern, and will be treated as necessary before it is discharged. Since the issuance of Discharge Authorization No. 934-01, there has not been any discharge of groundwater seepage from the Bellevue Park Apartments to the sanitary sewer.

Per Nick Hoffman's request, the Bellevue Park Apartments' Discharge Authorization No. 934-01 can only be extended to April 30, 2019, or up to 5 years of effective authorization date. Please keep this email with Discharge Authorization No. 934-01. The end-of-report is now due to the King County Industrial Waste office by May 15, 2019. A revised report form is included.

If you have any questions, please let me know.

Regards,

Lydia Eng King County Industrial Waste Pretreatment Program ph: 206–477–5433/fax: 206–263–3001 <u>lydia.eng@kingcounty.gov</u> <u>http://www.kingcounty.gov/industrialwaste</u>

From: Chuck Lie <CLie@terra-associates.com>
Sent: Wednesday, May 2, 2018 3:37 PM
To: Eng, Lydia <Lydia.Eng@kingcounty.gov>; Nick Hoffman <NHoffman@terra-associates.com>
Cc: paulb@murrayfranklyn.com; rogerf@murrayfranklyn.com
Subject: RE: Late Report: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments - End-of-Project Report

Lydia, this discharge permit is for groundwater seepage that may have low levels of gasoline and or BETX. At this time there is no positive hookup from the collection sump to the discharge pipe that leads to the sanitary sewer line, the pump was never installed. Prior to any discharge, the water in the vault would be tested for the constituents listed on the permit. If needed, appropriate treatment would occur, this may consist of a shelf air stripper unit or carbon drums. The concern from Ecology is that the site and adjacent construction sites had dewatering pumps during construction. Ecology is concerned that the groundwater levels have not reached their final levels now that the dewatering pumps are turned off. Ecology wants us to have a contingency plan in place in the event groundwater does rise up to the level that it needs to be pumped.

Does this answer your question? Let us know if you have further questions. Chuck

Terra Associates Inc

Charles R. Lie, LEG, LHG Project Manager 12220 113th Ave NE, Suite 130 Kirkland, WA 98034 Office 425.821.7777 Cell 206.396.5766

From: Eng, Lydia <Lydia.Eng@kingcounty.gov>
Sent: Wednesday, May 02, 2018 7:42 AM
To: Nick Hoffman <<u>nhoffman@terra-associates.com</u>>
Cc: paulb@murrayfranklyn.com; rogerf@murrayfranklyn.com; Chuck Lie <<u>clie@terra-associates.com</u>>
Subject: RE: Late Report: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments - End-of-Project
Report

Hi Nick,

Extensions should be requested before the expiration date. (DA No. 934-01 expired on April 1, 2018.) The procedure for clients is to re-apply for the discharge authorization. However, for this I can extend it to one year out since Authorizations are only good for up to 5 years. The effective date of DA No. 934-01 was April 1, 2014. The Bellevue Park Apartments' Discharge Authorization No. 934-01 is extended to April 1, 2019.

Please submit the end-of-report by April 15, 2019.

QUESTION: What is on site for treating the construction dewatering wastewater?

Regards,

Lydia Eng King County Industrial Waste Pretreatment Program ph: 206–477–5433/fax: 206–263–3001 <u>lydia.eng@kingcounty.gov</u> <u>http://www.kingcounty.gov/industrialwaste</u>

From: Nick Hoffman <<u>NHoffman@terra-associates.com</u>>
Sent: Tuesday, May 1, 2018 2:28 PM
To: Eng, Lydia <<u>Lydia.Eng@kingcounty.gov</u>>
Cc: paulb@murrayfranklyn.com; rogerf@murrayfranklyn.com; Chuck Lie <<u>CLie@terra-associates.com</u>>
Subject: RE: Late Report: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments - End-of-Project
Report

Lydia,

No discharge has taken place since our previous correspondence in March of 2016. However, we would still like to keep the option open. Is there any way to re-authorize and extend the permit for an additional 2 years?

Nicolas R. Hoffman, LG Senior Project Geologist

TERRA ASSOCIATES, INC.

12220 113th Avenue NE Suite 130 Kirkland, Washington 98034 Office - 425-821-7777, Ext 110 Fax - 425-821-4334 Cell – 206-396-3707 nhoffman@terra-associates.com

From: Eng, Lydia [mailto:Lydia.Eng@kingcounty.gov]
Sent: Tuesday, May 01, 2018 1:55 PM
To: Nick Hoffman
Cc: paulb@murrayfranklyn.com; rogerf@murrayfranklyn.com
Subject: Late Report: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments - End-of-Project Report Importance: High

Hi Nick,

Is the construction dewatering phase of the Bellevue Park Apartments project completed yet? Two years ago (see email below), Authorization No. 934-01 was extended to April 1, 2018 and the final end-of-project report is due by April 16, 2018. We have not received the end-of-report yet.

If construction dewatering is completed, then please send in the final report even if there were no discharges to the sanitary sewer. As of now, Authorization No. 934-01 has expired but is still outstanding until we receive the final report. This is considering that construction dewatering is completed. Attached is the self-monitoring report form.

Please let me know the status. Thank you.

Regards,

Lydia Eng King County Industrial Waste Pretreatment Program ph: 206–477–5433/fax: 206–263–3001 <u>lydia.eng@kingcounty.gov</u> <u>http://www.kingcounty.gov/industrialwaste</u>

From: Eng, Lydia
Sent: Tuesday, March 15, 2016 1:44 PM
To: 'Nick Hoffman' <<u>NHoffman@terra-associates.com</u>>
Subject: RE: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments

Hi Nick,

Thank you for your answer to my question.

Wastewater Discharge Authorization No. 934-01 is hereby extended to April 1, 2018 provided that self-monitoring requirements are performed as stipulated in Discharge Authorization No. 934-01.

Please retain this email as approval for the extension of DA No. 934-01.

If you have any questions, please let me know.

Regards,

Lydia Eng King County Industrial Waste Pretreatment Program ph: 206–477–5433 (new)/ fax: 206–263–3001 <u>lydia.eng@kingcounty.gov</u> <u>http://www.kingcounty.gov/industrialwaste</u>

From: Nick Hoffman [mailto:NHoffman@terra-associates.com]
Sent: Tuesday, March 15, 2016 9:37 AM
To: Eng, Lydia
Subject: RE: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments

Good Morning Lydia,

It is my understanding that nothing has changed and that as of this date no discharge has actually taken place. We would just like to keep the option open if needed. The Department of Ecology is requiring 8 quarters of monitoring to show clean samples so at this point we would like to extend the permit for another 2 years.

Nicolas R. Hoffman Senior Project Geologist

TERRA ASSOCIATES, INC.

12220 113th Avenue NE Suite 130 Kirkland, Washington 98034 Office - 425-821-7777, Ext 110 Fax - 425-821-4334 Cell – 206-396-3707 nhoffman@terra-associates.com

From: Eng, Lydia [mailto:Lydia.Eng@kingcounty.gov]
Sent: Tuesday, March 15, 2016 6:54 AM
To: Nick Hoffman
Subject: RE: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments

Good Morning Nick,

Thank you for your email. If everything is the same at the site, i.e., pretreatment, maximum daily discharge volume, location of discharge point, etc., then we can extend the expiration date. How long of an extension do you think this project will need? Let me know.

Regards,

Lydia Eng King County Industrial Waste Pretreatment Program ph: 206–477–5433 (new)/ fax: 206–263–3001 <u>lydia.eng@kingcounty.gov</u> <u>http://www.kingcounty.gov/industrialwaste</u>

From: Nick Hoffman [mailto:NHoffman@terra-associates.com]
Sent: Monday, March 14, 2016 2:57 PM
To: Eng, Lydia
Subject: Wastewater Discharge Authorization No. 934-01 Bellevue Park Apartments

Good afternoon,

It has come to our attention that this permit will be expiring at the end of the month. Could you please let me know what we need to renew the permit? The site is not currently discharging industrial wastewater into the county sewer system but needs to maintain the option for the time being.

Nicolas R. Hoffman Senior Project Geologist

TERRA ASSOCIATES, INC.

12220 113th Avenue NE Suite 130 Kirkland, Washington 98034 Office - 425-821-7777, Ext 110 Fax - 425-821-4334 Cell – 206-396-3707 nhoffman@terra-associates.com

ATTACHMENT 2

ANALYTICAL LAB REPORT



June 8, 2018

Chuck Lie Terra Associates, Inc. 12220 113th Avenue NE, Suite 130 Kirkland, WA 98034

Re: Analytical Data for Project 6990-2 Laboratory Reference No. 1806-003

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on June 1, 2018.

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: June 8, 2018 Samples Submitted: June 1, 2018 Laboratory Reference: 1806-003 Project: 6990-2

Case Narrative

Samples were collected on June 1, 2018 and received by the laboratory on June 1, 2018. They were maintained at the laboratory at a temperature of 2° C to 6° 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.



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

NWTPH-Gx/BTEX

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	FMW-5					
Laboratory ID:	06-003-01					
Benzene	870	5	EPA 8021B	6-7-18	6-7-18	
Toluene	11	10	EPA 8021B	6-7-18	6-7-18	
Ethyl Benzene	320	10	EPA 8021B	6-7-18	6-7-18	
m,p-Xylene	490	10	EPA 8021B	6-7-18	6-7-18	
o-Xylene	47	10	EPA 8021B	6-7-18	6-7-18	
Gasoline	7500	1000	NWTPH-Gx	6-7-18	6-7-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	66-117				



NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Prepared	Analyzed	Flags
6-7-18	6-7-18	
6-7-18	6-7-18	
6-7-18	6-7-18	
6-7-18	6-7-18	
6-7-18	6-7-18	
6-7-18	6-7-18	
	6-7-18 6-7-18 6-7-18 6-7-18 6-7-18 6-7-18	6-7-186-7-186-7-186-7-186-7-186-7-186-7-186-7-186-7-186-7-186-7-186-7-18

					Source	Pe	rcent	Recovery		RPD		
Analyte	Res	sult	Spike	Level	Result	Recovery		Limits	RPD	Limit	Flags	
DUPLICATE												
Laboratory ID:	06-04	46-01										
	ORIG	DUP										
Benzene	ND	ND	NA	NA		1	NA	NA	NA	30		
Toluene	ND	ND	NA	NA		1	NA	NA	NA	30		
Ethyl Benzene	ND	ND	NA	NA		1	NA	NA	NA	30		
m,p-Xylene	ND	ND	NA	NA		1	NA	NA	NA	30		
o-Xylene	ND	ND	NA	NA		1	NA	NA	NA	30		
Gasoline	ND	ND	NA	NA		1	NA	NA	NA	30		
Surrogate:												
Fluorobenzene						82	78	66-117				
MATRIX SPIKES												
Laboratory ID:	06-046-01											
	MS	MSD	MS	MSD		MS MSD						
Benzene	52.1	52.9	50.0	50.0	ND	104	106	82-122	2	11		
Toluene	50.2	50.5	50.0	50.0	ND	100	101	83-123	1	12		
Ethyl Benzene	50.2	50.3	50.0	50.0	ND	100	101	83-123	0	12		
m,p-Xylene	49.9	49.6	50.0	50.0	ND	100	99	83-123	1	12		
o-Xylene	50.2	49.8	50.0	50.0	ND	100	100	83-123	1	11		
Surrogate:												
Fluorobenzene						90	99	66-117				



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



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.

Ζ-

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



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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