

WHITMAN Environmental Sciences

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August 3, 2021

FedEx Freight, Inc.
3405 Victor St.
Santa Clara, CA 95054

Attention: Mr. Chong Lee

Subject: Groundwater Monitoring Summary Report
Former FedEx Freight, Inc. Seattle Area Terminal
18221 E. Valley Highway
Kent, Washington

Dear Mr. Lee:

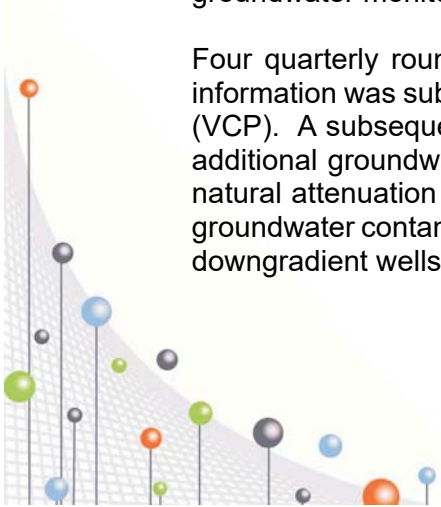
As you requested, Whitman Environmental Sciences (WES) has conducted additional sampling from the former recovery well RW-2 at the former FedEx Freight terminal in Kent, Washington (Figure 1). Since our last report dated September 20, 2020, four consecutive quarterly samples have been taken and all have met MTCA Method A groundwater cleanup levels for all tested parameters. This summary letter report is to document the monitoring and testing procedures as well as the laboratory analytical results of our sampling.

Site Background

The former FedEx Freight terminal in Kent was originally constructed and operated by another trucking company in about 1969. A fueling facility, including underground storage tanks for diesel fuel and gasoline was located near the southern end of the truck shop (Figure 2A). Four of the tanks were removed in about 1988 and a release of petroleum to soil and groundwater was discovered at that time. The release was reported to the Washington Department of Ecology. Viking Freight, a predecessor company to FedEx, began occupying the site in about 1992. Extensive site investigation and cleanup efforts were conducted from about 1988 to 1998, including removal of a final diesel fuel tank in 1997. There are no readily available records of activities after 1998, although features on the site that are not documented in the available reports make it clear that further cleanup was conducted.

In 2011, WES was contracted to assess the existing groundwater monitoring wells and obtain groundwater samples. Eleven wells were located and sampled. Table 3 documents the groundwater monitoring conducted on all monitoring wells at the site from 2011 to the present.

Four quarterly rounds of groundwater sampling were conducted in 2011 and 2012. The site information was submitted to the Washington Department of Ecology Voluntary Cleanup Program (VCP). A subsequent meeting with Ecology Site Manager Toraj Ghofrani identified the need for additional groundwater monitoring on a limited number of wells to empirically demonstrate that natural attenuation was occurring and that the former tank area was not a continuing source of groundwater contamination. At that meeting, monitoring wells MW-2 and MW-10 were selected as downgradient wells that could be used to demonstrate natural attenuation.



During the 2011-2012 quarterly sampling events, an additional undocumented recovery well was found in a utility vault along the south boundary of the site. For sampling purposes, that well has been designated RW-2, although any prior well I.D. remains unknown. RW-2 was added to sampling events beginning in December 2012. At subsequent sampling events from 2012 to 2019, RW-2, MW-2 and MW-10 were purged and sampled, as wells that were at or downgradient of the former underground storage tank area.

In March 2014 well RW-2 was developed using a vacuum truck to remove sediment and improve communication with the surrounding formation. Approximately 5,000 gallons of water was removed from the well and samples were obtained at three stages during the development. This action was documented in WES' April 7, 2014 Well Development and Groundwater Monitoring Report. Seven monitoring events were conducted after development in 2014 and 2015, which found benzene concentrations ranging from 4.1 to 14 ug/l. The reported results were above the MTCA Method A 5 ug/l groundwater cleanup level in most sampling events.

Groundwater monitoring reports dated August 12, 2016 and November 15, 2019 addressed additional rounds of testing conducted between March 2015 and August 2019. During part of that time access to the property was limited by the property owner (BNSF), who removed all of the site buildings and installed new lighting and security infrastructure for their intended land uses. In ten sampling events from November 2016 to August 2019 samples from monitoring wells RW-2 consistently contained concentrations of benzene. In seven of those events the sample concentrations exceeded the MTCA Method A groundwater cleanup level. No other analyzed parameters were detected in RW-2 at concentrations above MTCA groundwater cleanup criteria throughout that time.

In August 2019, WES conducted a pump test on well RW-2, sampling at intervals while removing about 2,500 gallons of purge water. The pump test effectively reduced benzene concentrations to levels that met MTCA groundwater cleanup criteria. WES recommended additional quarterly pumping events from RW-2, to be conducted at the beginning of at least four quarters. Mr. Grant Yang, the Department of Ecology Site Manager concurred with the approach, and also recommended obtaining one final sample from each of the other on-site monitoring wells during the course of the year.

Beginning in the 1st Quarter 2020, approximately 2,800 to 4,800 gallons were removed at each purge event, followed by sampling approximately six weeks later. The 1st Quarter 2020 groundwater monitoring purged 4,800 gallons from RW-2 on February 18th 2020, followed by sampling on March 25th. The sampling was documented in our summary letter dated June 25, 2020. The sample from RW-2 contained 1.2 ug/l of benzene, less than the MTCA Method A 5 ug/l groundwater cleanup level. No other analyzed parameter was detected.

In the 2nd Quarter 2020, the groundwater purge removed 2,800 gallons from RW-2 on May 5th 2020, followed by sampling on June 25th. The sampling was documented in our summary letter dated September 2nd, 2020. The sample from RW-2 contained 11 ug/l of benzene, 4.3 ug/l of xylenes and 71 ug/l of diesel range TPH. Because the reported benzene concentration exceeded the MTCA Method A 5 ug/l groundwater cleanup level, four additional quarterly sampling events were conducted to meet the requirement for four consecutive quarters in compliance with all cleanup levels.

Groundwater samples were obtained from eight other on-site monitoring wells as part of the 2nd Quarter 2020 monitoring (wells MW-1, MW-3, MW-5, MW-6, MW-8, MW-10, MW-13 and RW-1). The samples were all analyzed for TPH in the gasoline, diesel and motor oil ranges, as well as BTEX compounds. Five of the wells were analyzed for diesel and motor oil range TPH following a silica gel cleanup to remove non-polar organic material that has been demonstrated to interfere with the NWTPH-D(x) analytical method in samples from this site.

None of these other monitoring well samples contained any detectable concentrations of gasoline-range TPH or BTEX compounds. Samples from monitoring wells MW-1, MW-3, MW-5, MW-6, MW-8, MW-10 and MW-13 all contained diesel-range TPH in the portion of the sample conducted without silica gel cleanup, demonstrating widespread interference of organic material with the test. The reported concentrations ranged from 130 to 700 ug/l. Those results were each flagged by the laboratory as not resembling the laboratory standard for diesel. Two samples (MW-8 and MW-13) also showed detectable concentrations of oil-range TPH similarly flagged by the laboratory. The portion of each of those samples passed through silica gel did not contain any detectable diesel or oil-range TPH.

Current Scope of Work

Beginning in the 3rd Quarter 2020, WES conducted four consecutive quarterly purge and sampling events on RW-2. Two other on-site monitoring wells (MW-2 and MW-7) were also sampled in July 2021, as these had not been included in the 2nd Quarter 2020 round of testing.

Field Procedures

Groundwater Purging

Well RW-2 is a six-inch diameter well installed near the southern boundary of the site (Figure 2A). For each of the four monitoring events, WES mobilized to the site for a groundwater purge in accordance with the scope of work proposed in our November 15th, 2019 summary letter and our discussions with Mr. Yang. The work was conducted using a vacuum truck to remove a total of approximately 2,800 to 3,000 gallons of water on each purging event. The vacuum trucks were supplied and operated by Marine Vacuum Services, Inc., of Seattle, who managed and disposed the purge water under their wastewater discharge permit with King County METRO. Groundwater purges were conducted on August 6th, 2020, October 23rd, 2020, January 28th 2021 and May 12th, 2021.

For each event, the well was allowed to recover for about six weeks before sampling.

Groundwater Level Measurements

Prior to each sampling, water level measurements were taken on RW-2. Full sets of groundwater level measurements on all accessible wells were collected during the 4th Quarter 2020 and 2nd Quarter 2021 monitoring events. Table 1 summarizes the depth to groundwater, the measured total depth of the wells, the reported top-of-pipe elevation and calculated elevation of groundwater at each well. The elevations are relative to an on-site reference point assigned an elevation of 100.00.

Groundwater Sampling

For sampling, WES conducted a limited purge of approximately three well volumes of RW-2 using a down-hole submersible pump, then sampled following standard environmental sampling protocols using a new, disposable polyethylene bailer. Groundwater samples were obtained on September

19th and December 7th, 2020 (representing the 3rd and 4th Quarters of 2020), and March 25th and June 23rd, 2021 (representing 1st and 2nd Quarters 2021).

The samples were submitted to Friedman & Bruya, Inc., a Washington State accredited laboratory, for testing. Each sample was analyzed by Washington accepted methods NWTPH-G for gasoline-range TPH, as well as the volatile aromatic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), using EPA Method 8021B. Samples were also tested for diesel and motor oil-range TPH by Washington accepted method NWTPH-D(x). In the December 2020 sampling, the diesel sample was analyzed both with and without silica gel cleanup in case organic materials influenced the results. Table 2 summarizes the volume purged and analytical results of the four quarters of sampling on RW-2.

On July 26, 2021 WES returned to the project site to obtain samples from monitoring wells MW-2 and MW-7. These wells were purged of at least three well volumes using peristaltic pumps equipped with dedicated polyethylene tubing. Table 2 includes the volume purged and analytical results of the MW-2 and MW-7 samples. These samples were analyzed for gasoline, diesel and motor oil-range TPH and BTEX compounds. The diesel samples were analyzed both with and without silica gel cleanup in case organic materials influenced the results.

Laboratory Analytical Results

None of the samples from RW-2, MW-2 or MW-7 contained detectable concentrations of gasoline-range TPH or BTEX compounds. A low level of 140 ug/l of TPH-D was detected in the 2nd Quarter 2021 sample from RW-2, below the applicable MTCA Method A cleanup level.

The July 2021 samples from MW-2 and MW-7 both contained diesel and motor oil-range TPH that the laboratory flagged as not resembling the laboratory standards for diesel or motor oil. The portion of each of those samples passed through silica gel did not contain any detectable diesel or oil-range TPH.

Laboratory reports of the analytical results are attached in Appendix A. All laboratory quality assurance/quality control criteria were met by the analyses and the laboratory reporting limits are low enough that the data can be compared to appropriate regulatory cleanup levels.

Conclusions and Recommendations

Groundwater Level Measurements

The water level measurements were used to calculate the inferred groundwater surface contours, as shown in Figures 2A and 2B, for the two full sets of water level data. The contours imply a general trend of groundwater migration toward the northwest, consistent with prior sets of measurements conducted at the site. The measurements fall within the range of water level depths recorded throughout the history of sampling at this site.

Groundwater Analytical Results

In the four sampling events documented with this report, the samples from monitoring well RW-2 contained no detectable concentrations of benzene or gasoline-range TPH. No other analyzed parameters were detected in RW-2 at concentrations approaching MTCA groundwater cleanup criteria in any of the sampling events.

The July 2021 samples from MW-2 and MW-7 show no detectable concentrations of TPH-G or BTEX compounds. Both samples contained TPH-D and TPH-O concentrations that were flagged as not resembling the laboratory standard. After silica gel cleanup to remove organic matter, the samples contained no detectable TPH-D or TPH-O. These wells have never contained detectable concentrations of TPH-G or BTEX in any sampling event dating to the beginning of our monitoring in 2011.

A summary of groundwater monitoring results on all on-site wells from 2011 to the present is included in Table 3. In that time, only one sample from the site has exceeded TPH-G MTCA Method A groundwater cleanup level; a sample from RW-2 in September 2013 (reported as 1,000 ug/l). Twenty eight subsequent samples found no TPH-G exceeding the cleanup level in that well, including the six most recent consecutive quarters where no TPH-G was detected.

Diesel and motor oil TPH has been detected in all on-site wells, although almost all of the detections have been flagged by the laboratory as not resembling the fuel standard used for quantification. After silica gel cleanup to remove organic matter, the reported concentrations are routinely lower and commonly below the laboratory reporting limit. Only one sample throughout the monitoring period from 2011 to the present evidenced an un-flagged TPH-D concentration above the MTCA Method A groundwater cleanup level; a sample from MW-10, in November 2016 (reported at 740 ug/l).

Groundwater concentrations of benzene have been detected only in RW-2 and MW-10 at any time in the 2011 to 2021 monitoring. MW-10 exceeded the MTCA Method A groundwater cleanup level of 5 ug/l in October 2011 and again in September 2013 (reported at 6.4 and 6.6 ug/l, respectively). Benzene has been a more persistent presence in RW-2. From December 2012 to June 2015, irregular concentrations of benzene were reported, ranging from 3.2 to 270 ug/l. Then a more consistent trend of increasing concentrations began, reaching a peak concentration of 95 ug/l in an August 2018 sampling event. Since that time, benzene showed a decreasing trend over seven sampling events, including the four most recent samples which contained no detectable concentrations.

Four consecutive quarterly sampling events with all analytical parameters meeting applicable cleanup criteria is typically used as a measure of long-term compliance by the Washington Department of Ecology. With this sampling, the site has reached this compliance threshold.

Based on the findings, WES recommends submitting these results to Mr. Yang, with a request for a formal opinion under the Voluntary Cleanup Program. With these results, a No Further Action determination appears warranted.

Closure

Thank you for the opportunity to be of service to you in this matter. If you have any questions regarding this letter, or if I may be of any further assistance, please feel free to contact me at your convenience.

Respectfully submitted,
Whitman Environmental Sciences

Daniel S. Whitman L.G.
Principal



DANIEL S. WHITMAN

Attachments: Table 1 - 2020 - 2021 Groundwater Level Measurements
Table 2 - 2020 - 2021 Groundwater Sample Analytical Results
Table 3 - 2011 - 2021 Summary of Groundwater Analytical Results

Figure 1 - Site Location Map

Figure 2A -Monitoring Well Location Plan and
Inferred Groundwater Contours - 10-23-2020

Figure 2B - Monitoring Well Location Plan and
Inferred Groundwater Contours - 6-23-2021

Appendix A - Laboratory Analytical Reports - Friedman & Bruya, Inc.

Table 1
Summary of Groundwater Level Data
FedEx Freight, Inc. Former Seattle Area Terminal
Kent, Washington

Project No. WES-1276

Date	Monitoring Well	Water Level Relative to Top of Pipe (ft)	Total Depth of Well (ft)	Top of Pipe Elevation*	Groundwater Elevation*
10-23-2020	MW-1	-7.42	15.2	98.68	91.26
	MW-2	-8.19	17.0	99.15	90.96
	MW-3	-8.16	18.5	99.01	90.85
	MW-5	-6.68	18.8	98.33	91.65
	MW-6	-5.69	21.6	98.02	92.33
	MW-7	-8.05	18.2	99.14	91.09
	MW-8	-7.54	18.4	98.47	90.93
	MW-10	-7.17	25.6	97.63	90.46
	MW-13	-8.98	19.15	99.45	90.47
	RW-1	-6.82	19.6	98.11	91.29
	RW-2	-7.38	30.0	97.96	90.58
6-23-2021	MW-1	-7.17	15.2	98.68	91.51
	MW-2	-8.02	17.0	99.15	91.13
	MW-3	-7.95	18.5	99.01	91.06
	MW-5	-6.91	18.8	98.33	91.42
	MW-6	-5.06	21.6	98.02	92.96
	MW-7	-7.54	18.2	99.14	91.60
	MW-8	-8.11	18.4	98.47	90.36
	MW-10	-7.01	25.6	97.63	90.62
	MW-13	Inaccessible	Not	Measured	-
	RW-1	-7.50	19.6	98.11	90.61
	RW-2	-7.41	30.0	97.96	90.55

Table 1 Notes:

* Top of Pipe and Groundwater Elevations relative to an on-site reference point assigned elevation of 100.00 for the purposes of this study.

Table 2
Summary of Groundwater Analytical Results
September 2020 to July 2021
FedEx Freight, Inc., Former Seattle Area Terminal

Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			NWTPH-D(x)		NWTPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
			Diesel	Oil					
RW-2*	9/16/2020	2,800	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	12/7/2020	3,000	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
	3/25/2021	3,000	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	6/23/2021	2,800	140	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-2	7/26/2021	8	670 ^x	300 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
MW-7	7/26/2021	6	410 ^x	390 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
Model Toxics Control Act Method A Groundwater Cleanup Level			500 Diesel and Oil Ranges		800**	5	1,000	700	1,000

Table Notes:

Diesel and Oil Range total petroleum hydrocarbons conducted by Washington Method NWTPH-D(x).

^X - Denotes laboratory flag on data - sample chromatogram does not resemble the fuel standard used for quantification. Commonly interpreted as native organic material in the sample or crossover from a different range of petroleum.

SG - Analytical result reported with silica gel cleanup prior to analysis to remove non-polar organic material.

Gasoline-range total petroleum hydrocarbons by Northwest Method NWTPH-G.

BTEX Compounds by EPA Method 8021B.

ND (<X.XXX) - Not Detected by Analysis at levels above the noted detection reporting limit.

* Previously unidentified well uncovered in December 2012. Prior well I.D., if any, remains unknown.

**MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is present. If benzene is not present, Method A cleanup level is 1,000 ug/l.

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.

Table 3

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FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)							
			Total Petroleum Hydrocarbons			Benzene	Toluene	Ethyl-benzene	Total Xylenes	
			NWTPH-D(x)		NWTPH-G Gasoline					
			Diesel	Oil						
MW-1	3/1/2011	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	7/27/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	10/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	2/23/2012	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	Sampling Suspended in this Well									
	6/25/2020	6	170 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
MW-2	2/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	7/27/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	10/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	2/24/2012	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	12/11/2012	12	660 ^x	340 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
			ND (<50) ^{SG}	ND(<250) ^{SG}						
	6/7/2013	8	560 ^x	550 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	9/11/2013	8	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	3/7/2014	6	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	4/16/2014	6	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	7/11/2014	8	560 ^x	270 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
			ND (<50) ^{SG}	ND(<250) ^{SG}						
	11/19/2014	--	Inaccessible							
	3/27/2015	6	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	6/28/2015	11	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
			ND (<50) ^{SG}	ND(<250) ^{SG}						
	9/29/2015	6	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	11/12/2015	8	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
	3/22/2016	8	430 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)	
			ND (<50) ^{SG}	ND(<250) ^{SG}						

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

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Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons		Benzene	Toluene	Ethyl-benzene	Total Xylenes	
			NWTPH-D(x)						NWTPH-G Gasoline
			Diesel	Oil					
MW-2 (Continued)	11/1/2016	12	360	ND(<260)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	3/16/2017	12	300 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	12/28/2017	8	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	8/21/2018	8	300 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	8/27/2019	6	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/26/2021	8	670 ^X	300 ^X	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
ND (<50) ^{SG}			ND(<250) ^{SG}						
MW-3	2/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	7	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/23/2012	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	6/25/2020	6	310 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	MW-5	3/1/2011	7	52	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)
7/27/2011		8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
10/28/2011		8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
2/23/2012		8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
Sampling Suspended in this Well									
5/5/2020		8	130 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

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Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons			Benzene	Toluene	Ethyl-benzene	Total Xylenes
			NWTPH-D(x)		NWTPH-G Gasoline				
			Diesel	Oil					
MW-6	3/2/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/23/2012	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	5/5/2020	8	130 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
ND(<50) ^{SG}			ND(<250) ^{SG}						
MW-7	2/28/2011	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/24/2012	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	7/26/2021	6	410 ^x	390 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
ND (<50) ^{SG}			ND(<250) ^{SG}						
MW-8	2/28/2011	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/24/2012	7	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	5/5/2020	8	380 ^x	430 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
ND(<50) ^{SG}			ND(<250) ^{SG}						

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

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Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons			Benzene	Toluene	Ethyl-benzene	Total Xylenes
			NWTPH-D(x)		NWTPH-G Gasoline				
			Diesel	Oil					
MW-10	2/28/2011	40	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	35	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/28/2011	35	ND (<50)	ND(<250)	130	6.4	ND (<1)	ND (<1)	ND (<3)
	11/17/2011	2	NA	NA	ND (<100)	4.1	ND (<1)	ND (<1)	ND (<3)
		30	NA	NA	ND (<100)	1.6	ND (<1)	ND (<1)	ND (<3)
	2/23/2012	40	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	12/11/2012	40	510 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
		180	NA	NA	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	6/7/2013	35	500 ^x	400 ^x	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	9/11/2013	45	130 ^{xSG}	ND(<250) ^{SG}	330	6.6	2.1	ND (<1)	5.5
	3/7/2014	40	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	4/16/2014	40	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/11/2014	35	670 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	11/19/2014	45	760 ^x	ND(<250)	280	1.8	1.7	ND (<1)	3.5
			160 ^{xSG}	ND(<250) ^{SG}					
	3/27/2015	35	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	6/28/2015	45	1,100 ^x	ND(<250)	280	3.9	1.5	ND (<1)	3.7
			160 ^{xSG}	ND(<250) ^{SG}					
	9/29/2015	45	290 ^{xSG}	ND(<250) ^{SG}	380	3.4	1.9	ND (<1)	4.4
	11/12/2015	48	180 ^{xSG}	ND(<250)	260	ND (<1)	1.5	ND (<1)	3.5
	3/22/2016	45	590 ^x	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					

Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons		Benzene	Toluene	Ethyl-benzene	Total Xylenes	
			NWTPH-D(x)						NWTPH-G Gasoline
			Diesel	Oil					
MW-10 (Continued)	11/1/2016	38	740	290 ^X	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	3/16/2017	40	540 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	12/28/2017	55	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	8/21/2018	30	1,000 ^X	250 ^X	390	2.3	ND (<1)	ND (<1)	4.2
	8/27/2019	65	210 ^{XSG}	ND(<250) ^{SG}	320	2.3	ND (<1)	ND (<1)	3.2
	6/25/2020	60	700 ^X	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
ND(<50) ^{SG}			ND(<250) ^{SG}						
MW-13	3/1/2011	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/24/2012	6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	5/5/2020	8	360 ^X	380 ^X	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	MW-X	3/2/2011	8	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)
7/27/2011		6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
10/19/2011		7	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
2/23/2012		6	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
Sampling Suspended in this Well									
Well Could Not be Located									

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

WES-1276

Page 6 of 8

Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons			Benzene	Toluene	Ethyl-benzene	Total Xylenes
			NWTPH-D(x)		NWTPH-G Gasoline				
			Diesel	Oil					
RW-1	3/1/2011	55	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	85	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	10/19/2011	60	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	2/24/2012	50	ND (<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	Sampling Suspended in this Well								
	5/5/2020	44	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
RW-2*	12/11/2012	350	59 ^X	ND(<250)	130	28	ND (<1)	1.0	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
	6/7/2013	120	62 ^X	ND(<250)	260	57	ND (<1)	4.4	5.9
	9/11/2013	micropurge	130 ^{SG}	ND(<250) ^{SG}	1,000	270	ND (<10)	ND (<10)	ND (<30)
		150	ND(<50) ^{SG}	ND(<250) ^{SG}	170	27	ND (<1)	ND (<1)	ND (<3)
	3/7/2014	500	57 ^{XSG}	ND(<250) ^{SG}	570	68	1.9	25	35
		2,500	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	3.2	ND (<1)	1.5	ND (<3)
		5,000	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	8.0	ND (<1)	1.9	ND (<3)
	4/16/2014	275	ND(<50) ^{SG}	ND(<250) ^{SG}	120	14	ND (<1)	5.5	6.6
	7/11/2014	700	63 ^X	ND(<250)	ND (<100)	11	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	12/10/2014	275	ND(<50)	ND(<250)	ND (<100)	4.1	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	3/26/2015	640	ND(<50) ^{SG}	ND(<250) ^{SG}	110	12	ND (<1)	2.9	6.2
	6/28/2015	500	60 ^X	ND(<250)	230	4.7	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	9/29/2015	550	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	11/12/2015	420	ND(<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	1.3	ND (<1)	ND (<1)	ND (<3)
3/22/2016	550	ND(<50)	ND(<250)	210	27	ND (<1)	6.5	12	
		ND(<50) ^{SG}	ND(<250) ^{SG}						

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

WES-1276

Page 7 of 8

Sample I.D.	Sample Date	Volume Purged (gallons)	Laboratory Analytical Results in ug/l (ppb)						
			Total Petroleum Hydrocarbons		Benzene	Toluene	Ethyl-benzene	Total Xylenes	
			NWTPH-D(x)						NWTPH-G Gasoline
			Diesel	Oil					
RW-2* (Continued)	11/1/2016	380	ND(<51)	ND(<260)	ND (<100)	3.3	ND (<1)	ND (<1)	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	3/16/2017	370	ND(<50)	ND(<250)	150	12	ND (<1)	1.5	ND (<3)
			ND(<50) ^{SG}	ND(<250) ^{SG}					
	12/28/2017	400	ND(<50) ^{SG}	ND(<250) ^{SG}	290	39	1.3	5.1	3.2
	8/21/2018	65	NA	NA	620	95	1.6	ND (<1)	4.4
		140	NA	NA	230	40	ND (<1)	ND (<1)	ND (<3)
	5/2/2019	65	NA	NA	360	55	ND (<1)	9.7	6.3
		140	52 ^{X SG}	ND(<250) ^{SG}	220	25	ND (<1)	4.1	2.9
	8/27/2019	200	79 ^{X SG}	ND(<250) ^{SG}	190	23	ND (<1)	ND (<1)	ND (<3)
		1,000	91 ^{X SG}	ND(<250) ^{SG}	ND (<100)	3.9	ND (<1)	ND (<1)	ND (<3)
		2,500	ND (<50) ^{SG}	ND(<250) ^{SG}	ND (<100)	1.2	ND (<1)	ND (<1)	ND (<3)
	3/24/2020	4,800	ND(<50)	ND(<250)	ND (<100)	1.2	ND (<1)	ND (<1)	ND (<3)
	6/25/2020	2,800	71 ^X	ND(<250)	ND (<100)	11	ND (<1)	4.3	ND (<3)
	9/16/2020	2,800	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	12/7/2020	3,000	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
			ND (<50) ^{SG}	ND(<250) ^{SG}					
	3/25/2021	3,000	ND(<50)	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	6/23/2021	2,800	140	ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
Model Toxics Control Act Method A Groundwater Cleanup Level			500 Diesel and Oil Ranges		800**	5	1,000	700	1,000

Table 3 (Continued)
FedEx Freight, Inc., Seattle Area Terminal
Summary of Groundwater Sample Analytical Results 2011 - 2021

WES-1276

Page 8 of 8

Table 3 Notes:

Gasoline range total petroleum hydrocarbons by Northwest Method NWTPH-G.

BTEX Compounds by EPA Method 8021B.

Diesel and Oil Range total petroleum hydrocarbons conducted by Washington Method NWTPH-D(x).

X - Denotes laboratory flag on data - sample chromatogram does not resemble the fuel standard used for quantification. Commonly interpreted as native organic material in the sample or crossover from a different range of petroleum.

SG - silica gel cleanup prior to sample analysis. Analyses prior to December 2012 conducted using silica gel cleanup to remove polar organic material from samples. Analyses from December 2012 and later are noted when silica gel was used.

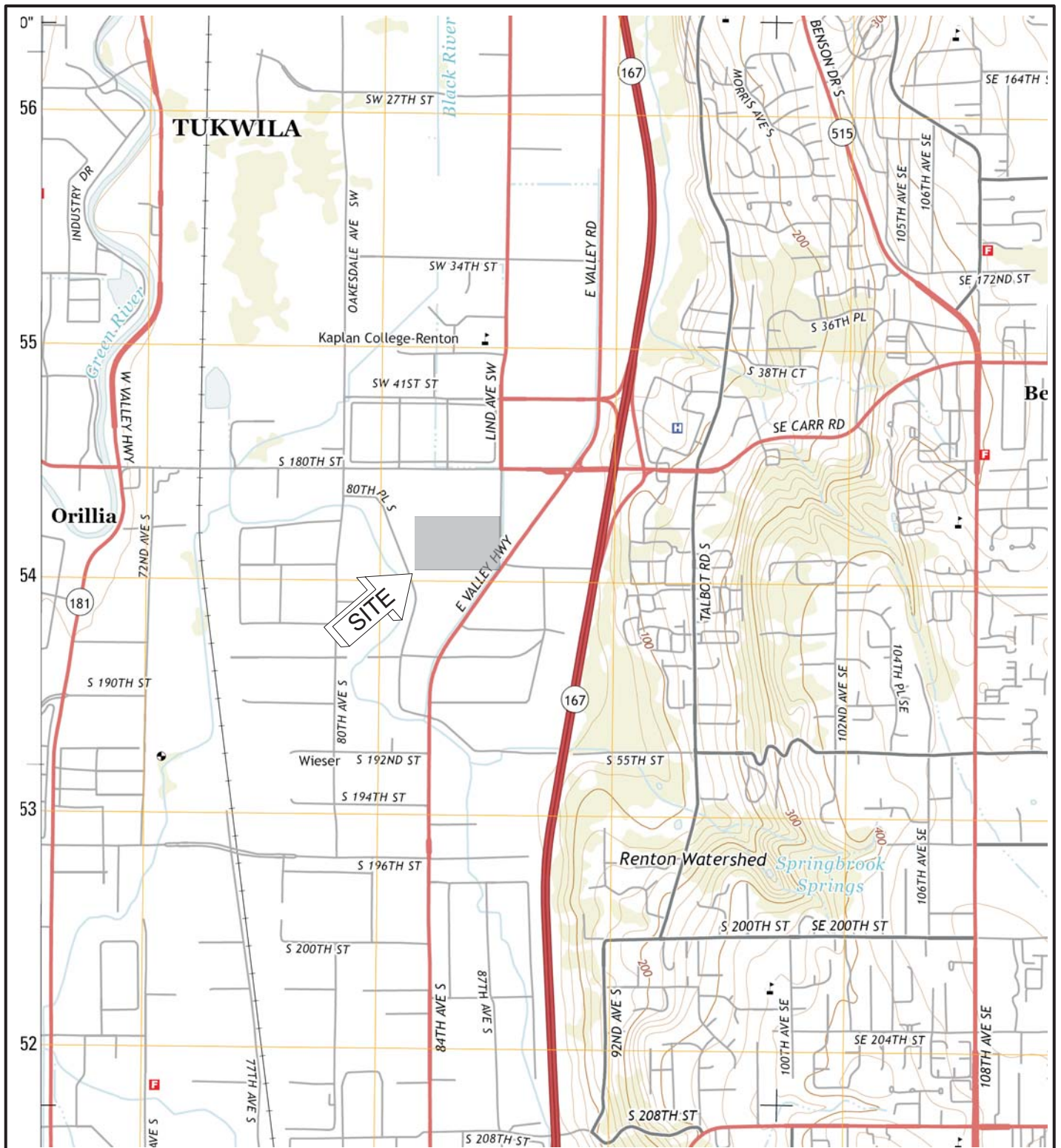
ND (<X.XXX) - Not Detected by Analysis at levels above the noted detection reporting limit.

N/A - Not analyzed for the listed parameter.

* Previously unidentified well uncovered in December 2012. Prior well I.D., if any, remains unknown.

**MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is present. If benzene is not present, Method A cleanup level is 1,000 ug/l.

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.



North



Scale 1 : 24,000

From USGS

Figure 1 - Site Map

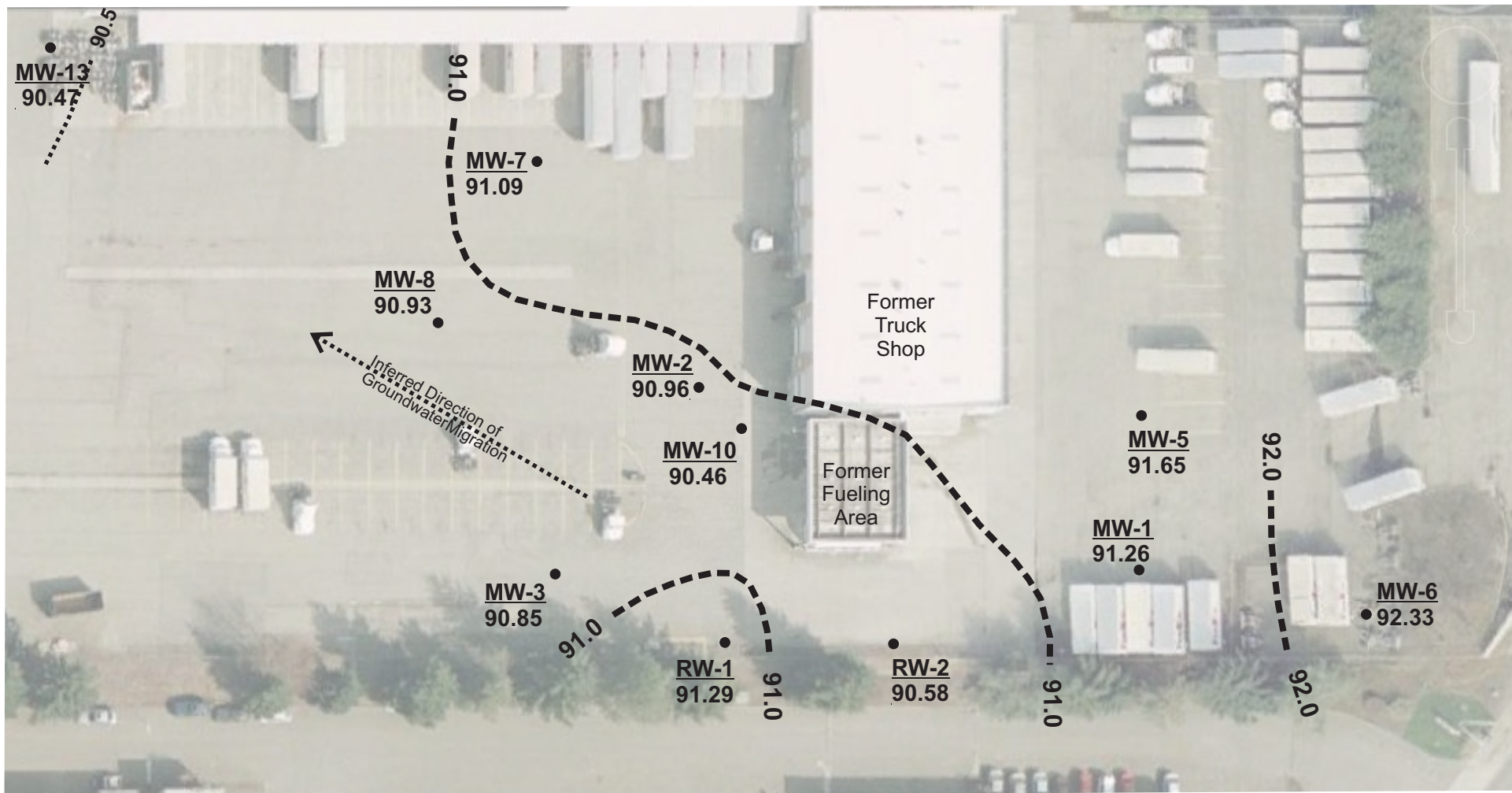
Former FedEx Freight Terminal
18221 E. Valley Highway
Kent, Washington

Project No. WES - 1276

Date Aug 2, 2016

File ID. 1276F1

WHITMAN
Environmental Sciences

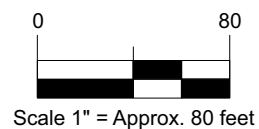


Legend

- Approximate Location of Monitoring Well

- Groundwater Surface Contours based on Water Level Measurements of 10/23/2020

All buildings and former site features have been removed.

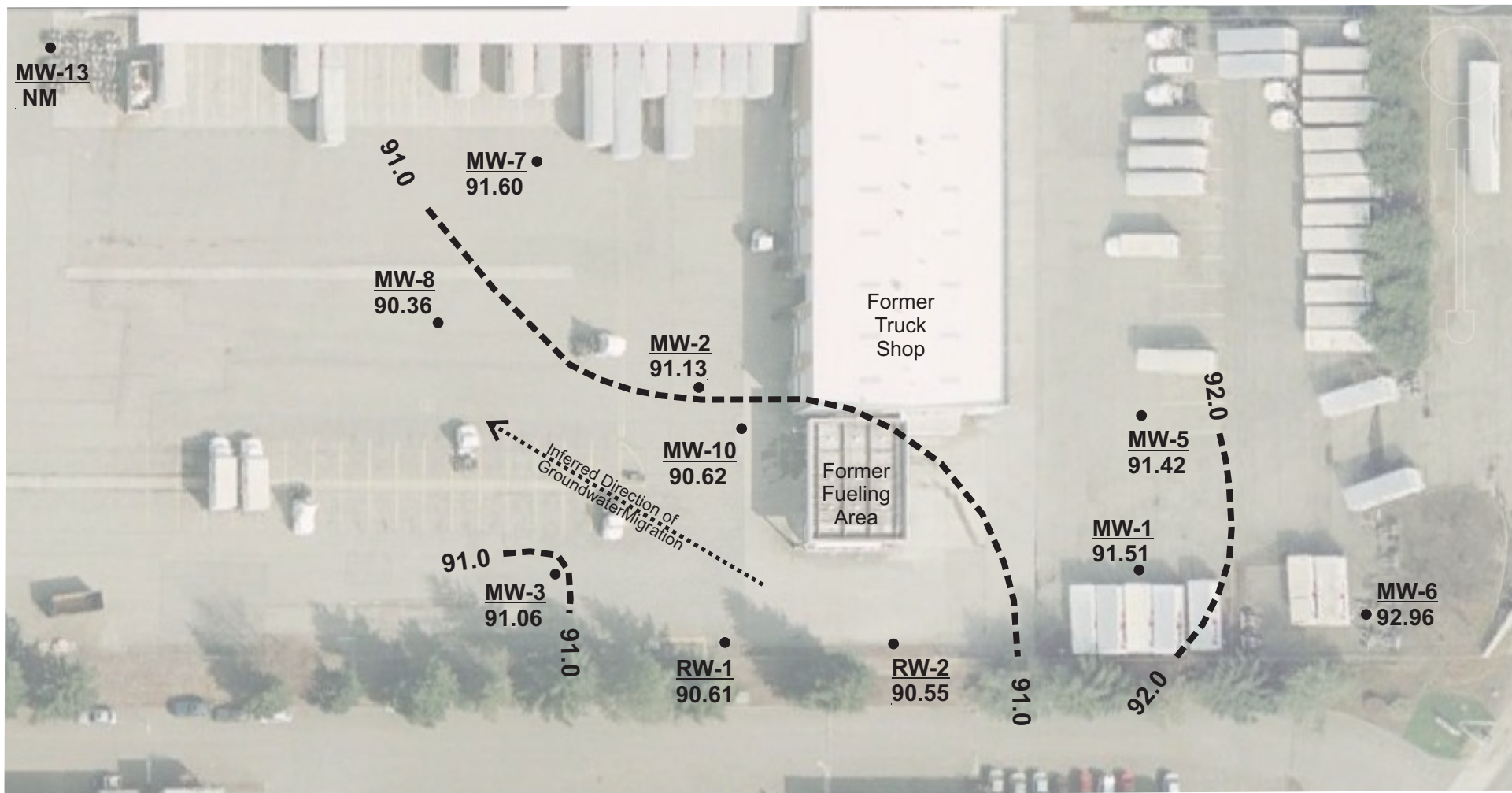


North



Figure 2A - Monitoring Well Location Plan and Inferred Groundwater Contours
Former FedEx Freight, Inc. Kent Terminal
18221 E. Valley Highway
Kent, Washington

Project No.	WES - 1276	WHITMAN Environmental Sciences
Date	July 2, 2021	
File ID	1276F2A	

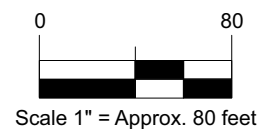


Legend

- Approximate Location of Monitoring Well

- Groundwater Surface Contours based on Water Level Measurements of 6/23/2021

All buildings and former site features have been removed.



North



Figure 2B - Monitoring Well Location Plan and Inferred Groundwater Contours
Former FedEx Freight, Inc. Kent Terminal
18221 E. Valley Highway
Kent, Washington

Project No. WES - 1276
Date July 2, 2021
File ID 1276F2B

WHITMAN
Environmental Sciences

APPENDIX A

***Laboratory Analytical Reports
Friedman & Bruya, Inc.***

**3rd Quarter 2020 Sample
RW-2**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 23, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on September 16, 2020 from the FedEx Kent PO WES 1276, F&BI 009296 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0923R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Kent PO WES 1276, F&BI 009296 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

009296 -01

Whitman Environmental Sciences

RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/23/20

Date Received: 09/16/20

Project: FedEx Kent PO WES 1276, F&BI 009296

Date Extracted: 09/18/20

Date Analyzed: 09/21/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
RW-2-GW 009296-01	<1	<1	<1	<3	<100	82
Method Blank 00-2008 MB	<1	<1	<1	<3	<100	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/23/20

Date Received: 09/16/20

Project: FedEx Kent PO WES 1276, F&BI 009296

Date Extracted: 09/18/20

Date Analyzed: 09/18/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
RW-2-GW	<50	<250	106
009296-01			
Method Blank	<50	<250	117
00-2096 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/23/20

Date Received: 09/16/20

Project: FedEx Kent PO WES 1276, F&BI 009296

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 009251-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	1.6	1.5	5
Xylenes	ug/L (ppb)	6.2	6.9	11
Gasoline	ug/L (ppb)	370	340	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Benzene	ug/L (ppb)	50	99	65-118
Toluene	ug/L (ppb)	50	99	72-122
Ethylbenzene	ug/L (ppb)	50	103	73-126
Xylenes	ug/L (ppb)	150	101	74-118
Gasoline	ug/L (ppb)	1,000	109	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/23/20

Date Received: 09/16/20

Project: FedEx Kent PO WES 1276, F&BI 009296

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	104	63-142	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

ME 09-16-20

1

305

***4th Quarter 2020 Sample
RW-2***

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 17, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on December 9, 2020 from the FedEx Old Kent PO 1276, F&BI 012160 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES1217R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 9, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent PO 1276, F&BI 012160 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
012160 -01

Whitman Environmental Sciences
RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/17/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

Date Extracted: 12/15/20

Date Analyzed: 12/15/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
RW-2-GW 012160-01	<1	<1	<1	<3	<100	88
Method Blank 00-2714 MB	<1	<1	<1	<3	<100	82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/17/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 012160-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	65-118
Toluene	ug/L (ppb)	50	89	72-122
Ethylbenzene	ug/L (ppb)	50	87	73-126
Xylenes	ug/L (ppb)	150	85	74-118
Gasoline	ug/L (ppb)	1,000	87	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Page # Ww1 / E03 of 1

TURNAROUND TIME

☒ Standard turnaround
☐ RUSH _____

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Dispose after 30 days

[illegible]

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 23, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the additional results from the testing of material submitted on December 9, 2020 from the FedEx Old Kent PO 1276, F&BI 012160 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES1223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 9, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent PO 1276, F&BI 012160 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
012160 -01

Whitman Environmental Sciences
RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

Date Extracted: 12/17/20

Date Analyzed: 12/21/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
RW-2-GW	<50	<250	90
012160-01			
Method Blank	<50	<250	104
00-2855 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

Date Extracted: 12/17/20

Date Analyzed: 12/17/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
RW-2-GW	<50	<250	83
012160-01			
Method Blank	<50	<250	94
00-2855 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	104	63-142	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/20

Date Received: 12/09/20

Project: FedEx Old Kent PO 1276, F&BI 012160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	89	100	63-142	12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Ww1 / E03 of

TURNAROUND TIME

☒ Standard turnaround
☐ RUSH _____

Rush charges authorized by:

☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

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10

***1st Quarter 2021 Sample
RW-2***

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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fbi@isomedia.com
www.friedmanandbruya.com

March 30, 2021

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on March 25, 2021 from the Fedex Old Kent WES-1276, F&BI 103490 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0330R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2021 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Fedex Old Kent WES-1276, F&BI 103490 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

103490 -01

Whitman Environmental Sciences

RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/21

Date Received: 03/25/21

Project: Fedex Old Kent WES-1276, F&BI 103490

Date Extracted: 03/29/21

Date Analyzed: 03/29/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
RW-2-GW 103490-01	<1	<1	<1	<3	<100	82
Method Blank 01-590 MB	<1	<1	<1	<3	<100	83

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/21

Date Received: 03/25/21

Project: Fedex Old Kent WES-1276, F&BI 103490

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 103445-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	110	65-118
Toluene	ug/L (ppb)	50	99	72-122
Ethylbenzene	ug/L (ppb)	50	98	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	103	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

103/1031

Page # of

W. H. H. H.

2000

Address 5818 5th Ave

City, State ZIP 24276

Email: chris@chris.com 5/11/2017

Project specific RLS? - Yes / No

PO#

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SECRET

Rush charges authorized by:

САНДИ ЕНДОКАР

316 JOURNAL OF DOCUMENTATION

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ANALYSES PROTECTED

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Friedman & Bruno Inc

3012 16th Avenue West

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PH 12001 007 0000

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Relinquished by:



PRINT NAME _____

COMPANY

DATE	5-15-8
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TIME

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Reviewed by:

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 2, 2021

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the additional testing of material submitted on March 25, 2021 from the Fedex Old Kent WES-1276, F&BI 103490 project. There are 4 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0402R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2021 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Fedex Old Kent WES-1276, F&BI 103490 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

103490 -01

Whitman Environmental Sciences

RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/02/21

Date Received: 03/25/21

Project: Fedex Old Kent WES-1276, F&BI 103490

Date Extracted: 03/30/21

Date Analyzed: 03/30/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
RW-2-GW	<50	<250	110
103490-01			
Method Blank	<50	<250	128
01-737 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/02/21

Date Received: 03/25/21

Project: Fedex Old Kent WES-1276, F&BI 103490

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	128	124	63-142	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

***2nd Quarter 2021 Sample
RW-2***

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 30, 2021

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on June 24, 2021 from the FedEx Old Kent WES 1276, F&BI 106456 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 24, 2021 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent WES 1276, F&BI 106456 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

106456 -01

Whitman Environmental Sciences

RW-2-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/21

Date Received: 06/24/21

Project: FedEx Old Kent WES 1276, F&BI 106456

Date Extracted: 06/25/21

Date Analyzed: 06/25/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
RW-2-GW 106456-01	<1	<1	<1	<3	<100	105
Method Blank 01-1417 MB	<1	<1	<1	<3	<100	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/21

Date Received: 06/24/21

Project: FedEx Old Kent WES 1276, F&BI 106456

Date Extracted: 06/25/21

Date Analyzed: 06/25/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
RW-2-GW 106456-01	140	<250	97
Method Blank 01-1489 MB2	<50	<250	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/21

Date Received: 06/24/21

Project: FedEx Old Kent WES 1276, F&BI 106456

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 106423-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	102	65-118
Toluene	ug/L (ppb)	50	102	72-122
Ethylbenzene	ug/L (ppb)	50	104	73-126
Xylenes	ug/L (ppb)	150	101	74-118
Gasoline	ug/L (ppb)	1,000	99	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/21

Date Received: 06/24/21

Project: FedEx Old Kent WES 1276, F&BI 106456

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 106413-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	530	135	142	50-150	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	ug/L (ppb)	2,500	126	63-142

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CDDUR

ME 06/24/21

VIN2 E03

3

7880 N W 27th Ave

Report To Mr. J. H. Smith

Company Coltman Erik Services

Address 6813 15th Ave NE

City, State, ZIP Seattle, WA 9815

Phone _____ Email Eric.Tanaka@jhu.edu

SAMPLERS (signature)		ME 06/24/21	
PROJECT NAME		PO #	0265
REMARKS	1. <i>100% OK</i>	INVOICE TO	1476
Project specific RI's? - Yes / No			

TURNAROUND TIME

☐ Standard turnaround

✓ RUSH *turnaround*

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

[illegible]

Friedman & Bruva, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME _____

COMPANY

DATE TIME

Relinquished by

Received by:

June 8 1960

11/11/20

35

6242 3.00

Relinquished by:

10/1/68

1

—

Received by:

[illegible]

1000

10

***Final Samples
MW-2 & MW-7***

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 2, 2021

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on July 26, 2021 from the FedEx Old Kent WES-1276, F&BI 107418 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0802R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2021 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent WES-1276, F&BI 107418 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
107418 -01	MW-2-GW
107418 -02	MW-7-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/02/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

Date Extracted: 07/28/21

Date Analyzed: 07/29/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
MW-2-GW 107418-01	<1	<1	<1	<3	<100	79
MW-7-GW 107418-02	<1	<1	<1	<3	<100	80
Method Blank 01-1660 MB	<1	<1	<1	<3	<100	82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/02/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

Date Extracted: 07/27/21

Date Analyzed: 07/27/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
MW-2-GW 107418-01	670 x	300 x	99
MW-7-GW 107418-02	410 x	390 x	96
Method Blank 01-1738 MB2	<50	<250	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/02/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	ug/L (ppb)	50	95	96	65-118	1
Toluene	ug/L (ppb)	50	99	99	72-122	0
Ethylbenzene	ug/L (ppb)	50	100	98	73-126	2
Xylenes	ug/L (ppb)	150	97	96	74-118	1
Gasoline	ug/L (ppb)	1,000	93	97	69-134	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/02/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 107353-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	113	112	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	ug/L (ppb)	2,500	97	63-142

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 4, 2021

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the additional results from the testing of material submitted on July 26, 2021 from the FedEx Old Kent WES-1276, F&BI 107418 project. There are 4 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0804R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2021 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent WES-1276, F&BI 107418 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
107418 -01	MW-2-GW
107418 -02	MW-7-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/04/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

Date Extracted: 07/27/21

Date Analyzed: 08/02/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
MW-2-GW	<50	<250	94
107418-01			
MW-7-GW	<50	<250	96
107418-02			
Method Blank	<50	<250	98
01-1738 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/04/21

Date Received: 07/26/21

Project: FedEx Old Kent WES-1276, F&BI 107418

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 107353-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	100	116	50-150	15

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	ug/L (ppb)	2,500	100	63-142

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

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d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

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lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

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ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report to *2*



ME 11/26/2000 # VU2/EO2

Company William Lee Smith
Address 812 15th Ave NE
City, State, ZIP Atlanta, GA 30315
Phone _____ Email _____

SAMPLERS (signature)		MT 07/26/2002		Page # 1 of 2	
PROJECT NAME	PO #	TURNAROUND TIME			
East 100 West	005-1276	<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____			
REMARKS	INVOICE TO	SAMPLE DISPOSAL			
Project specific RLS? - Yes / No		<input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days			

[illegible]

Friedman & Bruja, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 			1-26-	2:12
Received by: 	Phan Phan	FBI	2/26/21	1412
Relinquished by:				
Received by:				