

August 17, 2022

Ms. Jing Song, L.G., L.H.G. Washington State Department of Ecology 15700 Dayton Avenue North Shoreline, Washington 98133

Re: 2022 Annual Groundwater Monitoring Report Modera River Trail 15801 and 15945 Northeast 85th Street Redmond, Washington

> Facility/Site ID: 75292 Cleanup Site ID: 15281 VCP Project ID: NW3292

TRC Project Number: 015353.8

Dear Ms. Song:

TRC Environmental Corporation (TRC) is pleased to present this *2022 Annual Groundwater Monitoring Report* (Report) for the Modera River Trail Site. The Modera River Trail Site is located at 15801 and 15945 NE 85th Street in Redmond, Washington (Site). The location of the Site is depicted on Figure 1. The work presented herein was conducted on behalf of Mill Creek Residential Trust West Coast, LLC (MCRT). The Site is currently owned by NE 85th Street Development LLC.

On June 10, 2021 TRC submitted a Work Plan via email to the Washington State Department of Ecology (Ecology). The purpose of the Work Plan was to present an approach for groundwater and indoor air monitoring at the Site. The Work Plan was prepared in response to Ecology's email correspondence on April 28, 2021. Ecology approved the Work Plan via email on June 11, 2021. Indoor air monitoring is not described in this Report.

Following Ecology's approval, TRC completed four consecutive quarters of groundwater monitoring in accordance with the Work Plan. The purpose of this Report is to present the findings of the quarterly groundwater sampling events conducted between August 2021 to May 2022.

GROUNDWATER SAMPLING PROCEDURES

TRC conducted four consecutive groundwater monitoring events at the Site on August 24, 2021, November 18, 2021, February 17, 2022, and May 16, 2022. TRC collected samples from on-site monitoring wells MW-1 and MW-2. The locations of monitoring wells MW-1 and MW-2 are depicted on Figure 2.

Prior to groundwater sampling, both wells were opened to allow groundwater elevations to equilibrate after exposure to barometric conditions. TRC collected depth-to-water measurements at each well using an electronic water level meter. The depth to water was measured to the nearest 0.01 foot relative to the northernmost point top of casing (TOC) on the well. The depth-to-water measurements at the Site ranged from 5.00 to 9.75 feet below TOC. Groundwater elevation data are summarized in Table 1.

After measuring groundwater levels, TRC collected groundwater samples using low-flow sampling techniques. Each well was purged using a peristaltic pump at a flow rate of less than or equal to 100 milliliters per minute. During well purging, field parameters (temperature, conductivity, pH, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were recorded using a calibrated water quality meter and flow-through cell. Turbidity was also measured using a turbidimeter. These parameters were recorded every 3 to 5 minutes until groundwater conditions stabilized. Conditions were considered stabilized when three consecutive readings met the following criteria:

- Temperature: ± 3 percent
- pH: ± 0.1
- Conductivity: ± 3 percent
- Dissolved oxygen: ± 10 percent if grater than 0.5 milligrams per liter
- Oxidation-reduction potential: ± 20 millivolts
- Turbidity: ± 10 percent if greater 5 nephelometric turbidity units

Upon parameter stabilization, groundwater samples were collected directly into laboratory-supplied containers. Each sample container was immediately labeled and placed in an iced cooler pending submittal to the analytical laboratory. Samples were handled and transported under standard Chain-of-Custody protocols to Friedman & Bruya, Inc. in Seattle, Washington. All samples were submitted for the following analyses:

- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by U.S. Environmental Protection Agency (EPA) Method 8270E; and
- Naphthalenes by EPA Method 8270E.



Ms. Jing Song, Washington State Department of Ecology 2022 Annual Groundwater Monitoring Report Modera River Trail, 15801 and 15945 Northeast 85th Street, Redmond, Washington August 17, 2022

GROUNDWATER MONITORING ANALYTICAL RESULTS

Groundwater monitoring analytical results indicated the following:

- cPAHs were not detected at concentrations exceeding the method detection limits (MDLs) in any of the four monitoring events; and
- Naphthalenes were not detected in any samples at concentrations exceeding the MDLs in any of the four monitoring events.

Analytical results for groundwater samples are described below and summarized in Table 2. Copies of the groundwater laboratory reports are included in Attachment A.

CONCLUSIONS

The findings of the groundwater monitoring discussed in this Report support the following conclusions:

- Four consecutive quarters of quarterly groundwater monitoring events show concentrations of naphthalene and cPAHs in groundwater to be less than MDLs at the Site.
- Based on analytical results, it is TRC's professional opinion that groundwater monitoring is no longer necessary or warranted at the Site at this time.

CLOSING

Please contact us at the email addresses below or at (425) 395-0010 if you have any questions or comments regarding the content of this Report.

Sincerely,

Inti

Prepared by: Ramsey Mauldin Senior Environmental Scientist rmauldin@trccompanies.com

Reviewed and approved by: Betsy Wing Senior Geologist <u>bwing@trccompanies.com</u>



Ms. Jing Song, Washington State Department of Ecology 2022 Annual Groundwater Monitoring Report Modera River Trail, 15801 and 15945 Northeast 85th Street, Redmond, Washington August 17, 2022

ENCLOSURES

Tables

Table 1	Groundwater Elevation Data
Table 2	Groundwater Monitoring Analytical Results

Figures

Figure 1	General Vicinity Map
Figure 2	Site Representation with Groundwater Monitoring Well Locations

Attachment

Attachment A Laboratory Analytical Results



Tables

Table 1Groundwater Elevation Data2022 Annual Groundwater Monitoring ReportModera River Trail Property15801 and 15945 Northeast 85th Street, Redmond, Washington

Well ID ID	Date	Measured Total Depth	Depth to Water	Casing Elevation ^a	Calculated Groundwater Elevation
	8/24/2021	14.82	9.75		22.67
MW-1	11/18/2021	14.81	5.23	30 40	27.19
	2/17/2022	14.82	8.59	52.42	23.83
	5/16/2022	14.81	7.99		24.43
	8/24/2021	16.6	9.55		23.04
	11/18/2021	16.59	5.00	22.50	27.59
IVI VV-2	2/17/2022 16.59		8.52	52.59	24.07
	5/16/2022	16.59	7.89		24.70

Notes:

All units in US survey feet.

a Wells surveyed by Pace on August 24, 2021, referenced to North American Vertical Datum of 1988 (NAVD88).



Table 2Groundwater Monitoring Analytical Results2022 Annual Groundwater Monitoring ReportModera River Trail Property15801 and 15945 Northeast 85th Street, Redmond, Washington

		Semivolati	ile Organic C	ompounds ^a	Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) ^a							
Sample ID	Sample Date	Naph- thalene	1-Methyl- naph- thalene	2-Methyl- naph- thalene	Benzo(a) pyrene	Benz(a) anthra- cene	Benzo(b) fluor- anthene	Benzo(k) fluor- anthene	Chrysene	Dibenz(a,h) anthracene	Indeno (1,2,3-cd) pyrene	Adjusted Total cPAHs⁵
	8/24/2021	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
NA10/ 1	11/18/2021	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
10100-1	2/17/2022	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
	5/16/2022	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
	8/24/2021	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
	11/18/2021	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
10100-2	2/17/2022	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
	5/16/2022	<0.4	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
MTCA Met Groundwat Lev	hod A or B ter Cleanup vel ^c	160	1.5 ^d	32 ^d	See Cleanup Level for TEF-Adjusted Total cPAHs						0.1	

Notes:

All results presented in micrograms per liter (µg/L).

< Concentration less than laboratory method detection limit.

a Analyzed by EPA Method 8270E.

b Toxicity Equivalency Factors (TEFs) calculated under WAC 173-340-708(e) in accordance with Table 708-2 (in WAC 173-340-900).

c Model Toxics Control Act (MTCA) Method A Groundwater Cleanup Levels, Table 720-1, Washington Administrative Code (WAC) 173-340-900.

d MTCA Method B Groundwater Cleanup Levels from Cleanup Levels and Risk Calculations [CLARC] spreadsheet. Where cleanup levels based on carcinogenic and non-carcinogenic risk were available, the lower value was listed.

ND Result is less than the laboratory method detection limit.

Figures





Attachment A Laboratory Analytical Results

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 1, 2021

Ramsey Mauldin, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: 015353.8 MCRT Redmond, F&BI 108383

Dear Mr Mauldin:

Included are the results from the testing of material submitted on August 25, 2021 from the 015353.8 MCRT Redmond, F&BI 108383 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC0901R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 25, 2021 by Friedman & Bruya, Inc. from the TRC Environmental 015353.8 MCRT Redmond, F&BI 108383 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
108383-01	MW-1
108383-02	MW-2

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-1 08/25/21 08/27/21 08/27/21 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353.8, F&BI 108383 108383-01 1/2 082718.D GCMS9 YA
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol			Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Naphthalene		< 0.4		
2-Methylnaphthale	ne	< 0.4		
1-Methylnaphthale	ne	< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthe	ne	< 0.04		
Benzo(k)fluoranthe	ne	< 0.04		
Indeno(1,2,3-cd)pyr	ene	< 0.04		
Dibenz(a,h)anthrac	ene	< 0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-2 08/25/21 08/27/21 08/27/21 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353.8, F&BI 108383 108383-02 1/2 082719.D GCMS9 YA
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol			Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Naphthalene		< 0.4		
2-Methylnaphthale	ne	< 0.4		
1-Methylnaphthale	ne	< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthe	ne	< 0.04		
Benzo(k)fluoranthe	ne	< 0.04		
Indeno(1,2,3-cd)pyr	ene	< 0.04		
Dibenz(a,h)anthrac	ene	< 0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 08/27/21 08/27/21 Water ug/L (ppb)	e	Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353.8, F&BI 108383 01-2035 mb2 1/2 082708.D GCMS9 YA
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	% Recovery: 27 15 88 77 79 96	$\begin{array}{c} {\rm Lower} \\ {\rm Limit:} \\ 10 \\ 10 \\ 15 \\ 25 \\ 10 \\ 41 \end{array}$	Upper Limit: 60 49 144 128 142 138
Compounds:	С	oncentration ug/L (ppb)		
Naphthalene		< 0.4		
2-Methylnaphthale	ne	< 0.4		
1-Methylnaphthale	ne	< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthe	ne	< 0.04		
Benzo(k)fluoranthe	ne	< 0.04		
Indeno(1,2,3-cd)pyr	ene	< 0.04		
Dibenz(a,h)anthrac	ene	< 0.04		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/21 Date Received: 08/25/21 Project: 015353.8 MCRT Redmond, F&BI 108383

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample 1/0.5

Laboratory Code. Laboratory Co	meror pampi	E 1/0.0				
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	78	79	66-94	1
2-Methylnaphthalene	ug/L (ppb)	5	81	84	68-98	4
1-Methylnaphthalene	ug/L (ppb)	5	79	82	67-97	4
Benz(a)anthracene	ug/L (ppb)	5	88	89	70-130	1
Chrysene	ug/L (ppb)	5	89	88	70-130	1
Benzo(a)pyrene	ug/L (ppb)	5	89	90	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	91	94	62-130	3
Benzo(k)fluoranthene	ug/L (ppb)	5	89	90	70-130	1
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	99	92	70-130	7
Dibenz(a,h)anthracene	ug/L (ppb)	5	98	94	70-130	4

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.

 ${\rm J}$ - 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.

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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 1, 2021

Ramsey Mauldin, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: 015353 MCRT Redmond, F&BI 111392

Dear Mr Mauldin:

Included are the results from the testing of material submitted on November 19, 2021 from the 015353 MCRT Redmond, F&BI 111392 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC1201R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 19, 2021 by Friedman & Bruya, Inc. from the TRC Environmental 015353 MCRT Redmond, F&BI 111392 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>TRC Environmental</u>
111392-01	MW-1
111392-02	MW-2

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-1 11/19/21 11/23/21 11/23/21 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353 MCRT Redmond, F&BI 111392 111392-01 1/2 112312.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopheno Terphenyl-d14	ol	% Recovery: 40 28 85 83 97 92		Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Naphthalene		<0.4		
2-Methylnaphthalen	le	<0.4		
Renz(a)anthracene	le	<0.4		
Chrysene		<0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthen	ie	< 0.04		
Benzo(k)fluoranther	ne	< 0.04		
Indeno(1,2,3-cd)pyre	ene	< 0.04		
Dibenz(a,h)anthrace	ene	< 0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID:MDate Received:1Date Extracted:1Date Analyzed:1Matrix:WUnits:u	IW-2 1/19/21 1/23/21 1/23/21 Vater g/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353 MCRT Redmond, F&BI 111392 111392-02 1/2 112313.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophenol Terphenyl-d14		% Recovery: 41 29 84 85 97 95		Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Naphthalene		<0.4		
2-Methylnaphthalene		< 0.4		
1-Methylnaphthalene		< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthene		< 0.04		
Benzo(k)fluoranthene		< 0.04		
Indeno(1,2,3-cd)pyren	e	< 0.04		
Dibenz(a,h)anthracen	e	< 0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 11/23/21 11/23/21 Water ug/L (ppb)	Client: Project: Lab ID: Data File: Instrumen Operator:	TRC Environment 015353 MCRT Re 01-2740 mb2 112311.D t: GCMS12 VM	tal dmond, F&BI 111392
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopheno Terphenyl-d14	% Reco 24 14 84 83 01 94 89	Lowe very: Limi 11 11 50 44 10 50	$\begin{array}{cccc} {\rm pr} & {\rm Upper} \\ {\rm t:} & {\rm Limit:} \\ & 65 \\ & 65 \\ & 150 \\ & 108 \\ & 140 \\ & 150 \end{array}$	
Compounds:	Concent ug/L (j	ration ppb)		
Naphthalene	<0.2	2		
2-Methylnaphthalen	.e <0.2	2		
1-Methylnaphthalen	.e <0.2	2		
Benz(a)anthracene	<0.0	02		
Chrysene	<0.0	02		
Benzo(a)pyrene	<0.0	02		
Benzo(b)fluoranthen	.e <0.0	02		
Benzo(k)fluoranthen	e <0.0	02		
Indeno(1,2,3-cd)pyre	ene <0.0	02		
Dibenz(a,h)anthrace	ne <0.0	02		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/21 Date Received: 11/19/21 Project: 015353 MCRT Redmond, F&BI 111392

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample 1/0.25

Laboratory Code. Laboratory Control Sample 170.25											
			Percent	Percent							
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD					
Analyte	Ūnits 🗍	Level	LCS	LCSD	Criteria	(Limit 20)					
Naphthalene	ug/L (ppb)	5	78	78	62-90	0					
2-Methylnaphthalene	ug/L (ppb)	5	79	78	64-93	1					
1-Methylnaphthalene	ug/L (ppb)	5	78	76	64-93	3					
Benz(a)anthracene	ug/L (ppb)	5	93	94	70-130	1					
Chrysene	ug/L (ppb)	5	94	95	70-130	1					
Benzo(a)pyrene	ug/L (ppb)	5	97	99	70-130	2					
Benzo(b)fluoranthene	ug/L (ppb)	5	97	101	70-130	4					
Benzo(k)fluoranthene	ug/L (ppb)	5	96	96	70-130	0					
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	96	95	70-130	1					
Dibenz(a,h)anthracene	ug/L (ppb)	5	95	94	70-130	1					

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.

 ${\rm J}$ - 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.

Report To Romsey	Mouldin		- PROJE	CT NAME		_/	VŢ_	\downarrow	1/2	F	<u>20</u> #	قدي تقميني 			∡Sta	TURI	NAROUND '	TIME d
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City, State, ZIP <u>Issa</u> q Phone <u>(425) 395 - 0010</u> H	ush, WA 9802 RMeuldin@tr Imail.cc: cnocot	REMAR	REMARKS INVOICE Project specific RLs? - Yes / No				DICE	TO			□ Arc □ Oth Defau	SAM hive ler ult: I	dPLE DISPOSAL samples Dispose after 30 day					
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 24, 2022

Ramsey Mauldin, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: 015353-MCRT Redmond, F&BI 202333

Dear Mr Mauldin:

Included are the results from the testing of material submitted on February 17, 2022 from the 015353-MCRT Redmond, F&BI 202333 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC0224R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on February 17, 2022 by Friedman & Bruya, Inc. from the TRC Environmental 015353-MCRT Redmond, F&BI 202333 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>TRC Environmental</u>
202333 -01	MW-1
202333 -02	MW-2

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-1 02/17/22 02/21/22 02/21/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353-MCRT Redmond, F&BI 202333 202333-01 1/2 022119.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	% Recovery: 42 28 89 91 96 107		Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Naphthalene 2-Methylnaphthalen 1-Methylnaphthalen Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Indeno(1,2,3-cd)pyre Dibenz(a,h)anthrace	ne ne ne ene ene	$<\!\!\!0.4 \\ <\!\!0.4 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 \\ <\!\!0.04 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-2 02/17/22 02/21/22 02/21/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353-MCRT Redmond, F&BI 202333 202333-02 1/2 022120.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	% Recovery: 45 29 93 100 92 112		Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Naphthalene 2-Methylnaphthalen 1-Methylnaphthalen Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Indeno(1,2,3-cd)pyre Dibenz(a,h)anthrace	ne ne ne ene ene	$< 0.4 \\ < 0.4 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 \\ < 0.04 $		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applicab 02/21/22 02/21/22 Water ug/L (ppb)	k le	Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental 015353-MCRT Redmond, F&BI 202333 02-505 mb 022110.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	% Recovery: 24 15 89 89 86 113	Lower Limit: 10 10 15 25 10 41	Upper Limit: 60 49 144 128 142 138
Compounds:	(	Concentration ug/L (ppb)		
Naphthalene		< 0.2		
2-Methylnaphthaler	ne	< 0.2		
1-Methylnaphthaler	ne	< 0.2		
Benz(a)anthracene		< 0.02		
Chrysene		< 0.02		
Benzo(a)pyrene		< 0.02		
Benzo(b)fluoranther	ne	< 0.02		
Benzo(k)fluoranther	ne	< 0.02		
Indeno(1,2,3-cd)pyre	ene	< 0.02		
Dibenz(a,h)anthrace	ene	< 0.02		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/22 Date Received: 02/17/22 Project: 015353-MCRT Redmond, F&BI 202333

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

Laboratory Coue. Laboratory Co	mutu Sampi	e				
			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Únits	Level	LCS	LCSD	Criteria	(Limit 20)
Naphthalene	ug/L (ppb)	5	88	95 vo	66-94	8
2-Methylnaphthalene	ug/L (ppb)	5	95	103 vo	68-98	8
1-Methylnaphthalene	ug/L (ppb)	5	95	102 vo	67-97	7
Benz(a)anthracene	ug/L (ppb)	5	98	103	70-130	5
Chrysene	ug/L (ppb)	5	101	105	70-130	4
Benzo(a)pyrene	ug/L (ppb)	5	106	110	70-130	4
Benzo(b)fluoranthene	ug/L (ppb)	5	102	106	62-130	4
Benzo(k)fluoranthene	ug/L (ppb)	5	108	114	70-130	5
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	107	108	70-130	1
Dibenz(a,h)anthracene	ug/L (ppb)	5	114	111	70-130	3

#### 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.

 ${\rm J}$  - 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.

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Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHS (EPA)	Vaphthelenes		-	Not	es
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 7, 2022

Ramsey Mauldin, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: MCRT Redmond 015353 PO 182754, F&BI 205266

Dear Mr Mauldin:

Included are the results from the testing of material submitted on May 16, 2022 from the MCRT Redmond 015353 PO 182754, F&BI 205266 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC0607R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 16, 2022 by Friedman & Bruya, Inc. from the TRC Environmental MCRT Redmond 015353 PO 182754, F&BI 205266 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>TRC Environmental</u>
205266-01	MW-1
205266-02	MW-2

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-1 05/16/22 05/18/22 05/20/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental MCRT Redmond 015353 205266-01 1/2 052011.D GCMS9 YA
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	$\% \ { m Recovery:} \ 21 \ 24 \ 85 \ 81 \ 56 \ 117 \ $	$\begin{array}{c} {\rm Lower} \\ {\rm Limit:} \\ 10 \\ 10 \\ 15 \\ 25 \\ 10 \\ 41 \end{array}$	Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Naphthalene		< 0.4		
2-Methylnaphthale	ne	< 0.4		
1-Methylnaphthale	ne	< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthe	ne	< 0.04		
Benzo(k)fluoranthe	ne	< 0.04		
Indeno(1,2,3-cd)pyr	ene	< 0.04		
Dibenz(a,h)anthrac	ene	< 0.04		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW-2 05/16/22 05/18/22 05/20/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	TRC Environmental MCRT Redmond 015353 205266-02 1/2 052012.D GCMS9 YA
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophenol Terphenyl-d14		% Recovery: 31 27 91 93 75 116	Lower Limit: 10 10 15 25 10 41	Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Naphthalene		< 0.4		
2-Methylnaphthale	ne	< 0.4		
1-Methylnaphthalene		< 0.4		
Benz(a)anthracene		< 0.04		
Chrysene		< 0.04		
Benzo(a)pyrene		< 0.04		
Benzo(b)fluoranthe	ne	< 0.04		
Benzo(k)fluoranthe	ne	< 0.04		
Indeno(1,2,3-cd)pyr	ene	< 0.04		
Dibenz(a,h)anthrac	ene	< 0.04		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Method Bla		nk	Client:	TRC Environmental						
Date Received: Not Applica		ble	Project:	MCRT Redmond 015353						
Date Extracted:	05/18/22		Lab ID:	02-1245 mb2						
Date Analyzed:	05/20/22		Data File:	052006.D						
Matrix:	Water		Instrument:	GCMS9						
Units:	ug/L (ppb)		Operator:	YA						
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromophen Terphenyl-d14	ol	% Recovery: 19 14 92 93 80 114	Lower Limit: 10 10 15 25 10 41	Upper Limit: 60 49 144 128 142 138						
		Concentration								
Compounds:		ug/L (ppb)								
Naphthalene		< 0.2								
2-Methylnaphthale	ne	< 0.2								
1-Methylnaphthalene		< 0.2								
Benz(a)anthracene		< 0.02								
Chrysene		< 0.02								
Benzo(a)pyrene		< 0.02								
Benzo(b)fluoranthe	ne	< 0.02								
Benzo(k)fluoranthe	ne	< 0.02								
Indeno(1,2,3-cd)pyr	ene	< 0.02								
Dibenz(a,h)anthrac	ene	< 0.02								

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/22 Date Received: 05/16/22 Project: MCRT Redmond 015353 PO 182754, F&BI 205266

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

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Laboratory Code: Laboratory Control Sample 1/0.5

Laboratory Code. Laboratory Co	muroi Sampi	le 1/0.0				
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	77	83	60-97	7
2-Methylnaphthalene	ug/L (ppb)	5	88	93	63-103	6
1-Methylnaphthalene	ug/L (ppb)	5	86	91	64-101	6
Benz(a)anthracene	ug/L (ppb)	5	98	103	70-130	5
Chrysene	ug/L (ppb)	5	96	102	70-130	6
Benzo(a)pyrene	ug/L (ppb)	5	102	104	70-130	2
Benzo(b)fluoranthene	ug/L (ppb)	5	101	103	62-130	2
Benzo(k)fluoranthene	ug/L (ppb)	5	97	100	70-130	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	120	115	70-130	4
Dibenz(a,h)anthracene	ug/L (ppb)	5	122	111	70-130	9

#### 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.

 ${\rm J}$  - 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.

205266 Report To Ramsey Marlin Company TRC Address 1180 NW Maple St. Ste 310			SAMPL	SAMPLERS (signature) PROJECT NAME MCRT Reduced 015353										⇒ I ⊃_ J	Page # FURN	t VAROUND	of ( TIME	
			PROJE					PO# 015353 182354				R	Standard turnaround RUSH Rush charges authorized by:					
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