

# MEMORANDUM

Project No. AS200555

#### November 14, 2023

#### To: Anna L. Nguyen, Wactor Environmental Law Group, P.C.

cc: Jon K. Wactor, Wactor Environmental Law Group, P.C.

From:

En / M

Eric Marhofer, PE Principal Environmental Engineer eric.marhofer@aspectconsulting.com

Re:	2023 Compliance Monitoring Update
	Ballinger Village Shopping Center
	Voluntary Cleanup Program No. NW1843

Aspect Consulting, a branch of Geosyntec Consultants, Inc. (Aspect), has prepared this memorandum to document ongoing compliance monitoring activities for the Ballinger Village Shopping Center (the Site). The Site is located at 20120 Ballinger Way NE in Shoreline, Washington (the Property).

The Site received a No Further Action (NFA) Likely determination from the Washington State Department of Ecology (Ecology) in June 2022, predicated on long-term monitored natural attenuation (MNA) of residual groundwater impacts to ensure the remedy remains protective for the duration of MNA (Ecology, 2022).

Compliance monitoring requirements for the Site are detailed in the Compliance Monitoring Plan (CMP) prepared by Aspect (Aspect, 2022), which was included as an enclosure with Ecology's NFA Likely opinion letter. The CMP provides that groundwater performance monitoring and an inspection of existing impervious areas acting as a cap at the Property will be performed annually.

Annual compliance monitoring activities were performed in September 2023, in accordance with the procedures described in the CMP. The results of the cap inspection and groundwater monitoring are summarized in the following sections and confirm that the long-term protectiveness of the MNA remedy remains effective.

### **Cap Inspection Results**

The annual cap inspection includes checking the existing impervious areas on the Property for evidence of significant cracking or other potentially damaging conditions that may compromise the integrity of the asphalt, pavement, or the building covering the Property.

Wactor Environmental Law Group November 14, 2023

The cap inspection was performed in coordination with the property manager on September 6, 2023. There was no evidence of significant cracking or other permanent damage to the impervious areas covering the Property.

Several new tenancies were noted during the Site visit, which included temporary modification and replacement of discrete areas of the building slab to facilitate utility installation at two tenant spaces as described below:

- 20226/20224 Ballinger Way NE, Seattle Feline Rescue (Units 30 and 32) These previously vacant tenant spaces were built out to accommodate a feline rescue in the past year. According to the property manager, improvements to the space included cutting through the slab to install new utilities. The building slab had been replaced at the time of the inspection.
- 20154 Ballinger Way NE, Lumin Laundry (Unit 18) This previously vacant tenant space was undergoing improvements at the time of the inspection that included cutting through a discrete portion of the slab and trenching to install new utilities, to be followed by patching. The alley behind this unit was also noted to have evidence of recent trenching to connect utilities to the unit; however, the asphalt had been replaced at the time of the inspection.

A copy of the cap inspection form and an annotated tenant map are included in Appendix A for reference.

# **Groundwater Performance Monitoring Results**

Groundwater performance monitoring includes collection and laboratory analysis of groundwater samples to evaluate the effectiveness of the ongoing MNA remedy. The CMP includes groundwater sampling at nine on-Property wells (HMW-2, HMW-13, HMW-37, HMW-38, HMW-39R, SVE-8, SVE-11, SVE-12, and SVE-13), and two off-Property wells (HMW-28 and HMW-34) to monitor ongoing natural attenuation. Compliance monitoring well locations are shown on Figure 1.

Annual groundwater monitoring was completed in September 2023, in accordance with the procedures specified in the CMP. Groundwater samples were collected using passive diffusion-bag (PDB) sampling methods. The PDBs were deployed in the monitoring wells 14 days prior to sample collection to allow sufficient time for equilibration. Groundwater samples were submitted to Friedman & Bruya, Inc., in Seattle, Washington, for analysis of tetrachloroethene and trichloroethene (PCE and TCE, respectively) by U.S. Environmental Protection Agency (EPA) Method 8260D.

For monitoring wells with prior detections of PCE above the unrestricted Model Toxics Control Act (MTCA) Method A cleanup level, the results of groundwater sampling showed a decline in concentrations from the previous sampling event at all but one monitoring well location (HMW-39R remained about the same). The PCE concentration at one well location also fell below the cleanup level (HMW-37). TCE was not detected at the Site above the cleanup level.

Groundwater monitoring results are summarized in Tables 1 and 2. The laboratory analytical report is provided in Appendix B for reference. The groundwater results were also submitted to Ecology's

Wactor Environmental Law Group November 14, 2023

Environmental Information Management System (EIMS) on October 25, 2023, to satisfy regulatory reporting requirements.

## Conclusions

The results of compliance monitoring activities confirm the long-term protectiveness of the final MNA remedy remains effective. The groundwater PCE plume appears to be stable or shrinking and, with the exception for temporary penetrations in the building slab for tenant improvements, which have been or will be patched, the impervious cap over the Property remains in place.

### References

Aspect Consulting, LLC (Aspect), 2022, Compliance Monitoring Plan, Ballinger Village Shopping Center, May 10, 2022.

Washington State Department of Ecology (Ecology), 2022, Opinion on Proposed Cleanup, Ballinger Village Shopping Center, June 21, 2022.

## Limitations

Work for this project was performed for the Wactor Environmental Law Group (Client), and this memorandum was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This memorandum does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Attachments:Table 1 – Groundwater Sampling Results<br/>Table 2 – Groundwater Elevations<br/>Figure 1 – Monitoring Well Locations<br/>Appendix A – Cap Inspection Form<br/>Appendix B – Laboratory Analytical Report

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# TABLES

# Table 1. Groundwater Sampling ResultsProject No. 220555, Ballinger Village Shopping Center, Shoreline, Washington

		Analyte	Tetrachloroethene (PCE)	Trichloroethene (TCE)
		Unit		ug/L
	MTCA Method	A Cleanup Level <sup>1</sup>	5	5
Location	Period	Date		•
	Pre-Remediation	11/28/2012	79	3.6
		03/25/2013	12	< 1 U
		09/26/2013	9.9	<10
		12/19/2013	11	<10
		03/26/2014	8.4	<10
		09/24/2014	5.1	<10
		03/12/2015	5.4	<10
HMW-02	Active Remediation	09/09/2015	4.7	<10
		03/18/2016	3.9	<10
		09/14/2016	10	<10
		09/15/2017	2.4	<10
		10/02/2018	7.2	<10
		09/30/2019	8.8	<10
		09/07/2021	7.2	< 0.5 U
	Post-Remedation	09/21/2023	7.1	< 0.5 U
	Pre-Remediation	11/28/2012	110	1.5
		03/25/2013	44	<1U
		09/26/2013	22	<1U
	Active Remediation	12/19/2013	45	<1U
		03/26/2014	76	1.2
		09/24/2014	20	<1U
		03/12/2015	18	<1U
HMW-13		09/09/2015	13	<1U
	Active Remediation	03/18/2016	7.5	< 1 U
		09/14/2016	9.7	<1U
		09/15/2017	2.7	<1U
		10/02/2018	7.5	<1U
		09/30/2019	10	< 1 U
		11/16/2020	13	< 1 U
		09/07/2021	17	< 0.5 U
	Post-Remediation	09/21/2023	11	< 0.5 U
	Pre-Remedation	11/27/2012	19	1.7
		09/24/2014	20	1.9
		09/09/2015	11	1.2
		09/14/2016	20	2.9
HMW-28	Active Remediation	09/15/2017	18	1.9
		10/02/2018	17	1.8
		09/30/2019	18	2.1
		06/22/2020	21.9	1.89
		09/07/2021	30	3
	Post-Remedation	09/21/2023	28	3.7
	Pre-Remedation	11/27/2012	< 1 U	< 1 U
HMW-34	Active Remediation	09/24/2014	< 1 U	< 1 U
		09/09/2015	< 1 U	< 1 U
	Post-Remediation	09/21/2023	< 1 U	< 0.5 U

# Table 1. Groundwater Sampling ResultsProject No. 220555, Ballinger Village Shopping Center, Shoreline, Washington

		Analyte	Tetrachloroethene (PCE)	Trichloroethene (TCE)
		Unit		ug/L
		-	J·	
Location	MTCA Metho	5	5	
Location		Date		
	Pre-Remedation	11/27/2012	11	< 1 U
		03/26/2014	1.9	< 1 U
		09/24/2014	10	< 1 U
		03/12/2015	8.6	< 1 U
		09/09/2015	4.7	< 1 U
	-	03/18/2016	5.2	< 1 U
	Active Remediation	09/14/2016	2.4	< 1 U
HMW-37	Active Remediation	03/31/2017	3.4	< 1 U
		07/03/2017	9.4	< 1 U
		09/15/2017	7.1	< 1 U
		12/26/2017	4.5	< 1 U
		10/02/2018	11	< 1 U
		09/30/2019	8.2	< 1 U
	Deet Deve edet	09/07/2021	8	< 0.5 U
	Post-Remedation	09/21/2023	1.2	< 0.5 U
	Pre-Remediation	11/27/2012	45	< 1 U
		09/26/2013	45	< 1 U
		12/19/2013	32	< 1 U
		03/26/2014	47	< 1 U
		09/24/2014	35	< 1 U
		03/12/2015	33	< 1 U
		09/09/2015	22	< 1 U
HMW-38	Active Remediation	03/18/2016	26	< 1 U
		09/14/2016	12	< 1 U
		09/15/2017	12	< 1 U
		10/02/2018	11	< 1 U
		09/30/2019	17	< 1 U
		06/22/2020	21.5	< 0.500 U
		09/07/2021	21	< 0.5 U
	Post-Remedation	09/21/2023	12	< 0.5 U
	Pre-Remediation	11/27/2012	77	1.5
		03/25/2013	38	1.1
		09/26/2013	71	2.3
		12/19/2013	51	1.2
		03/26/2014	49	1
		09/24/2014	41	< 1 U
HMW-39	Active Remediation	03/12/2015	33	< 1 U
		09/09/2015	35	< 1 U
		03/18/2016	28	< 1 U
		09/14/2016	12	< 1 U
		09/15/2017	15	< 1 U
		10/02/2018	15	< 1 U
		09/30/2019	14	< 1 U
HMW-39R <sup>2</sup>	Post-Remediation	09/21/2023	17	< 0.5 U

# Table 1. Groundwater Sampling ResultsProject No. 220555, Ballinger Village Shopping Center, Shoreline, Washington

		Analyte	Tetrachloroethene (PCE)	Trichloroethene (TCE)
		Unit	ug/L	ug/L
	MTCA Method	I A Cleanup Level <sup>1</sup>	5	5
Location	Period	Date		
	Pre-Remediation	11/27/2012	92	<1U
		03/25/2013	25	<10
		09/26/2013	30	<10
		12/19/2013	9.8	<10
		03/26/2014	8.5	<10
		09/24/2014	7	<10
		03/12/2015	4.6	<1U
		09/09/2015	4.2	<1U
	Active Demodiation	03/18/2016	1.8	<1U
SVE-08	Active Remediation	09/14/2016	4.1	<1U
		03/31/2017	2.7	<1U
		07/03/2017	20	<1U
		09/15/2017	7.9	<1U
		12/26/2017	10	<1U
		10/02/2018	15	<1U
		10/01/2019	17	<1U
		09/07/2021	15	< 0.5 U
	Post-Remediation	09/21/2023	8.2	< 0.5 U
	Pre-Remediation	11/28/2012	7.9	<1U
		03/26/2014	9	<1U
		09/24/2014	7.8	<1U
		03/12/2015	6.3	<1U
		09/09/2015	6.5	<1U
		03/18/2016	7.2	< 1 U
		09/14/2016	6.1	< 1 U
SVE-11	Active Remediation	03/31/2017	8.2	< 1 U
		07/03/2017	9.2	<1U
		09/15/2017	6.6	<1U
		12/26/2017	7.4	<1U
		10/02/2018	7	<1U
		09/30/2019	5.5	<1U
		09/07/2021	4.7	< 0.5 U
	Post-Remediation	09/21/2023	3.7	< 0.5 U
	Pre-Remediation	11/28/2012	< 1 U	<1U
		09/26/2013	3.9	<1U
		12/19/2013	14	<1U
		03/26/2014	2.7	<1U
		09/24/2014	2.2	<1U
		03/12/2015	1.2	<1U
SVE-12	Active Remediation	09/09/2015	1.4	< 1 U
0VL-12		03/18/2016	< 1 U	< 1 U
		09/14/2016	< 1 U	< 1 U
		09/15/2017	< 1 U	<1U
		09/19/2018	< 1 U	<1U
		09/30/2019	< 1 U	<1U
		09/07/2021	1	< 0.5 U
	Post-Remediation	09/21/2023	3.9	< 0.5 U

## Table 1. Groundwater Sampling Results

Project No. 220555, Ballinger Village Shopping Center, Shoreline, Washington

		Tetrachloroethene (PCE)	Trichloroethene (TCE)	
		Unit	ug/L	ug/L
	MTCA Metho	od A Cleanup Level <sup>1</sup>	5	5
Location	Period	Date		
	Pre-Remediation	11/28/2012	120	6.1
		03/25/2013	20	1.3
		09/26/2013	21	1.4
	Active Remediation	12/19/2013	14	< 1 U
		03/26/2014	14	< 1 U
		09/24/2014	9.3	< 1 U
		03/12/2015	7.9	< 1 U
SVE-13		09/09/2015	5.6	< 1 U
		03/18/2016	7	< 1 U
		09/14/2016	11	< 1 U
		09/15/2017	3.3	< 1 U
		10/02/2018	9.1	< 1 U
		09/30/2019	16	< 1 U
		09/07/2021	16	0.85
	Post-Remedation	09/21/2023	8.2	0.66

#### Notes:

Results in bold indicate the analyte was detected above the laboratory reporting limit.

U = Analyte not detected at or above the laboratory Reporting Limit (RL) shown.

<sup>1</sup> Model Toxics Control Act (MTCA) unrestricted Method A Cleanup Level for Groundwater

<sup>2</sup> Monitoring well HMW-39 was used as an injection well for an in-situ chemical injection pilot test in 2020 and was subsequently replace by HMW-39R, approximately 14 feet southeast of the orginal HMW-39 location.

All results in micrograms per liter (ug/L).

# **Table 2. Groundwater Elevations**

Project No. 220555, Ballinger Village Shopping Center, Shoreline, Washington

						Septembe	er 21, 2023
Well Name	Installation Date		n Inter (ft bgs		Top of Casing Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
HMW-2	5/25/05	23	to	33	318.98	26.09	292.89
HMW-13	1/23/06	29	to	39	323.41	29.27	294.14
HMW-28	3/30/10	15	to	25	285.44	13.02	272.42
HMW-34	9/14/10	10	to	25	268.70	11.72	256.98
HMW-37	4/25/12	10	to	35	322.05	27.28	294.77
HMW-38	5/10/12	10	to	35	321.91	27.38	294.53
HMW-39R	6/22/20	27	to	37	NA	26.37	NA
SVE-8	8/26/11	10	to	35	322.64	27.10	295.54
SVE-11	4/25/12	10	to	35	323.48	27.29	296.19
SVE-12	4/23/12	10	to	35	314.09	21.31	292.78
SVE-13	4/30/12	10	to	35	317.09	24.57	292.52

Notes:

NA = Not Available

ft = feet

ft bgs = feet below ground surface

Table 2

# FIGURE



# **APPENDIX A**

**Cap Inspection Form** 

Cap Inspection			Cap Inspection For	m			Date:	9/6/2023
			Project Name: Ballinge	er Villag	<u>le</u> Sho	pping Center	Inspector's Name:	David Mackay
-CON	SULTINO	2	Project No.: <u>200555</u>				Inspector's Signature:	Mand Merida
Weather Co	onditions: _	Partly cloud	y, 64 degrees F			Inspector's Title/Affiliation:	Staff Geologist / Aspect Con	sulting
INSPECTIO	N RECOR	D						
INSPECTION	NITEM			YES	NO	C	OMMENTS/NOTES	
1. Property I	Boundary L	andscaping C	over					
a. Any modif	ications sinc	e last inspection?			х	No changes noted or reported.		
b. Evidence	of any recent	t landscaping rem	noval?		х			
c. Evidence	of soil disturb	pance?			х			
2. Paved Are	eas Cover							
a. Any pavement or gravel modifications since last inspection?				х	No changes reported by property management, no changes observed in parking area.			
b. Evidence	b. Evidence of pavement disturbance, damage, or open cracks?			x		Minor cracks in pavement present throughout parking area. Evidence of recent trenching in aller behind new laundromat (Unit 18), likely related to plumbing updates, asphalt replaced.		
c. Evidence	of surface sp	ills or standing w	ater?		х	No evidence observed.		
3. Building S	Slab Cover							
a. Any modif	ications sinc	e last inspection?		х		See comment section for updates		
b. Have ther	e been any te	enant changes si	nce the last inspection?	х		See comment section for updates		
c. Photos tal	ken for Items	#1-3?		x				
Deficient <u>Ac</u>	tion Items	& Other Comm	ents:					
Address	Unit	Business	Notes					
20228	Unit 33	Barber Shop	Updates do not appear to ha	ve impac	cted the	slab based on visual inspection thr	ough winder. Was not able to a	ccess interior.
20226, 20224	Unit 32, 30	Seattle Feline Rescue	Based on verbal discussion v time of inspection.	vith prop	erty ma	nager, buildout included cutting the	rough the slab and trenching for	r new plumbing, slab replaced at
20216	Unit 27	Green Papaya	Appears to be a new restaura	ant. Was	not abl	e to access interior or inspect throu	ugh window.	
20206	Unit 25	Northwest Ballet Center	Updates do not appear to have impacted the slab based on visual inspection through winder. Was not able to access interior.					
20154	Unit 18	Lumin Laundry	Slab was cut open and actively being trenched for new plumbing at time of inspection.					
20130	Unit 7	Ballinger Chiropractic	Inspected and talked with ow	ner, slab	o curren	tly covered by new flooring. Owner	stated updates did not impact t	he slab.

# Ballinger Village Shopping Center

20120 Ballinger Way NE, Shoreline, WA 98155



# Ballinger Village Shopping Center

20120 Ballinger Way NE, Shoreline, WA 98155

# **Current Tenants**

1	Immediate Clinic	5,081 SF
3	Massage Envy	4,011 SF
5	The UPS Store	1,364 SF
6	Sole Perfection Shoes	1,364 SF
8	Starbucks Coffee	1,760 SF
10	Stella Nail Lounge	4,240 SF
15	Thriftway	24,713 SF
16	Wells Fargo (Coming Soon)	2,009 SF
20	Emerald City Athletics (C	24,711 SF

26	Tree House Dentistry for
28	Shoreline Veterinary Hosp
30	Seattle Sun Tan
34	Subway
35	Blue Harbor Nails
36	Teriyaki Town
37	Farmers Insurance
40	Rite Aid

# Available/Coming Soon

2,432 SF	7	Available	1,308 SF
2,885 SF	18	Available	4,681 SF
3,003 SF	25	Available	1,563 SF
1,003 SF	27	Available	1,500 SF
493 SF	32	Available	3,405 SF
1,101 SF	33	Available	1,002 SF
528 SF	45	Available	2,340 SF
16,692 SF			

# **APPENDIX B**

Laboratory Analytical Report

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 27, 2023

Daniel Babcock, Project Manager Aspect Consulting, LLC 710 2<sup>nd</sup> Ave S, Suite 550 Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on September 21, 2023 from the Ballinger Village 220555, F&BI 309320 project. There are 15 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.

Colo

Michael Erdahl Project Manager

Enclosures c: Aspect Data ASP0927R.DOC

### ENVIRONMENTAL CHEMISTS

## CASE NARRATIVE

This case narrative encompasses samples received on September 21, 2023 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Ballinger Village 220555, F&BI 309320 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Aspect Consulting, LLC
309320 -01	SVE-8-092123
309320 -02	SVE-11-092123
309320 -03	HMW-37-092123
309320 -04	HMW-39R-092123
309320 -05	HMW-38-092123
309320 -06	HMW-13-092123
309320 -07	SVE-12-092123
309320 -08	SVE-13-092123
309320 -09	HMW-2-092123
309320 -10	HMW-34-092123
309320 -11	HMW-28-092123
309320 -12	Trip Blank

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SVE-8-09212 09/21/23 09/22/23 09/23/23 Water ug/L (ppb)	3	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-01 092254.D GCMS11 LM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	97	78	126
Toluene-d8		103	84	115
4-Bromofluorobenz	ene	97	72	130
	(	Concentration		
Compounds:		ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		8.2		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SVE-11-0921 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	23	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-02 092209.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	90	71	132
Toluene-d8		92	68	139
4-Bromofluorobenz	ene	98	62	136
Compounds:	(	Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		3.7		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-37-09 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	2123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-03 092210.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	98	71	132
Toluene-d8		99	68	139
4-Bromofluorobenz	ene	96	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		1.2		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-39R- 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	092123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-04 092211.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	96	71	132
Toluene-d8		91	68	139
4-Bromofluorobenz	ene	98	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		17		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-38-09 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	92123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-05 092212.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	94	71	132
Toluene-d8		90	68	139
4-Bromofluorobenz	ene	98	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		12		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-13-09 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	92123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-06 092213.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	101	71	132
Toluene-d8		100	68	139
4-Bromofluorobenz	ene	96	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		11		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SVE-12-0921 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	23	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-07 092214.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	106	71	132
Toluene-d8		102	68	139
4-Bromofluorobenz	ene	95	62	136
	(	Concentration		
Compounds:		ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		3.9		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SVE-13-0921 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	23	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-08 092215.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	93	71	132
Toluene-d8		91	68	139
4-Bromofluorobenz	ene	96	62	136
Compounds:	(	Concentration ug/L (ppb)		
Trichloroethene		0.66		
Tetrachloroethene		8.2		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-2-092 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-09 092216.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	106	71	132
Toluene-d8		98	68	139
4-Bromofluorobenz	ene	94	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		7.1		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-34-09 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	92123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-10 092217.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	95	71	132
Toluene-d8		94	68	139
4-Bromofluorobenz	ene	96	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		< 0.5		
Tetrachloroethene		<1		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	HMW-28-09 09/21/23 09/22/23 09/22/23 Water ug/L (ppb)	92123	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 309320-11 092218.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	105	71	132
Toluene-d8		97	68	139
4-Bromofluorobenz	ene	94	62	136
Compounds:		Concentration ug/L (ppb)		
Trichloroethene		3.7		
Tetrachloroethene		28		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applicab 09/22/23 09/22/23 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Ballinger Village 220555 03-2151 mb 092208.D GCMS11 LM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	103	78	126
Toluene-d8		99	84	115
4-Bromofluorobenz	ene	102	72	130
Compounds:	(	Concentration ug/L (ppb)		
Trichloroethene Tetrachloroethene		<0.5 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 09/27/23 Date Received: 09/21/23 Project: Ballinger Village 220555, F&BI 309320

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 309320-01 (Matrix Spike)

	/2 F /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Trichloroethene	ug/L (ppb)	10	< 0.5	112	35-149
Tetrachloroethene	ug/L (ppb)	10	8.2	118 b	50 - 150

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Trichloroethene	ug/L (ppb)	10	109	98	70-130	11
Tetrachloroethene	ug/L (ppb)	10	107	108	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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.

 $k-\mbox{The calibration results}$  for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

 $\rm pc$  - 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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