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November 14, 2022

Anna Coates, R.G.
Oregon Department of Environmental Quality
Northwest Region
700 Northeast Multnomah Street, Suite 600
Portland, Oregon 97232

RE: GROUNDWATER SAMPLING AND ANALYSIS FOR 1,4-DIOXANE
CONGER FACILITY (PRIESTLEY/TARR FACILITY)
ECSI FILE NO. 1139
2429 NORTH BORTHWICK AVENUE
PORTLAND, OREGON
FARALLON PN: 2227-001

Dear Anna Coates:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter on behalf of Conger Northwest, Inc. to describe its evaluation of 1,4-dioxane in groundwater. The evaluation was performed in response to the letter for the property at 2429 North Borthwick Avenue in Portland, Oregon[1] (herein referred to as the Facility) (Figure 1), in which the Oregon Department of Environmental Quality (DEQ) stated, "The extent and magnitude of 1,4-dioxane in groundwater must be determined for the site in accordance with the March 26, 2019 Consent Order."[2] An evaluation is being performed consistent with the DEQ request[3] to collect four quarterly or semiannual groundwater samples for analysis for 1,4-dioxane. This letter transmits the results from the August 2022 groundwater monitoring event, and provides:

- A summary of the results from the sampling for 1,4-dioxane; and
- A data analysis consisting of a comparison of the concentrations of 1,4-dioxane detected in groundwater to DEQ Risk-Based Concentrations (RBCs) for occupational and urban residential receptors, and an estimation of the extent of concentrations of 1,4-dioxane in groundwater exceeding DEQ RBCs for occupational and residential receptors based on the sampling results.

SAMPLING RESULTS SUMMARY

Groundwater sampling for 1,4-dioxane was performed during the groundwater monitoring event conducted between August 16 and 19, 2022. This was the fourth groundwater monitoring event

[1] Letter Regarding Groundwater Sampling and Analysis for 1,4-Dioxane, Priestley/Tarr Facility, 2429 N Borthwick Avenue, Portland OR 97211, ECSI Number 1139 dated January 12, 2021 from Anna Coates of the Oregon Department of Environmental Quality (DEQ) to Skip Tarr of Tarr, LLC.
[2] *Order on Consent DEQ No. OPVC-NWR-17-02* issued to Skip Tarr of Tarr, LLC on November 17, 2017.
[3] Letter regarding Groundwater Sampling and Analysis for 1,4-dioxane, Conger Facility (Priestley/Tarr Facility), 2429 North Borthwick Avenue, Portland, Oregon, ECSI File No. 1139 dated July 20, 2021 from Anna Coates of DEQ to Skip Tarr of Tarr, LLC.

during which groundwater sampling for 1,4-dioxane was performed and the fourth sampling event following injections of S-MicroZVI and PlumeStop in 2020.

Groundwater levels and field parameters were measured, and groundwater samples were collected from the 30 monitoring wells that comprise the groundwater monitoring network for the Facility. A total of 29 groundwater samples were analyzed for 1,4-dioxane. Monitoring locations are shown on Figure 2.

Groundwater samples were submitted to Apex Laboratories of Tigard, Oregon for analysis for 1,4-dioxane and volatile organic compounds (VOCs). The list of VOCs encompassed the constituents of concern for groundwater for the Facility. The analytical reports for 1,4-dioxane analysis are provided in Attachment A. The analytical results for 1,4-dioxane are summarized in Table 1 and shown on Figure 2. Figures 3A through 3C display cross section A-A', which depicts the estimated vertical extent of 1,4-dioxane in groundwater.

DATA ANALYSIS

The sampling results indicate the following regarding the extent of 1,4-dioxane in groundwater within the locality of facility (LOF):

- 1,4-dioxane was detected in groundwater samples collected from shallow monitoring wells MW-4, MW-5A, and MW-5B, and MW-17A, which are in or proximate to the Northern Source Area, and in monitoring wells located in the apparent groundwater flow path immediately down-gradient.
- 1,4-dioxane was not detected in groundwater samples collected from monitoring wells MW-5C, MW-17B, or MW-17C, which are in the Northern Source Area and screened in the gravel aquifer.
- 1,4-dioxane was not detected in groundwater samples collected from monitoring well MW-1, which is up-gradient of the Northern Source Area.
- 1,4-dioxane was not detected in groundwater samples collected from monitoring wells MW-3, MW-6, MW-6B, MW-7, MW-11, MW-15, or MW-16. These wells are cross-gradient of the groundwater flow path from the Northern Source Area.
- The highest concentrations of 1,4-dioxane were detected in groundwater samples collected from monitoring wells MW-4, MW-5A, and MW-5B, which are screened in the sand aquifer in the Northern Source Area. The highest concentration, 740 micrograms per liter, was measured in monitoring well MW-4. Concentrations of 1,4-dioxane rapidly dissipated down-gradient of the Northern Source Area.
- The 1,4-dioxane plume has not migrated beyond the dissolved-phase tetrachloroethene and trichloroethene plumes.
- Concentrations of 1,4-dioxane in groundwater are stable and exhibit no discernible seasonal variability.

- 1,4-dioxane concentrations detected in groundwater do not exceed DEQ RBCs for vapor intrusion into buildings; therefore, 1,4-dioxane in groundwater currently does not pose an unacceptable vapor intrusion risk for residential and occupational receptors within the LOF. Similarly, the results from soil vapor monitoring performed consistent with the Record of Decision (ROD) indicate that concentrations of 1,4-dioxane in soil vapor historically have not exceeded and currently do not exceed DEQ RBCs for vapor intrusion into buildings;[4] therefore, 1,4-dioxane in soil vapor has never posed an unacceptable vapor intrusion risk for residential and occupational receptors at the Facility.
- 1,4-dioxane concentrations exceed DEQ RBCs for occupational and urban residential receptors for the ingestion and inhalation from the tap water pathway in groundwater in only a portion of the LOF. The predicted areal extent of 1,4-dioxane at concentrations exceeding DEQ RBCs for occupational and urban residential receptors for the ingestion and inhalation from the tap water pathway is shown on Figure 2. As shown on Figure 2, groundwater with 1,4-dioxane concentrations exceeding DEQ RBCs is within the LOF, and limited to the Facility and a down-gradient area along the apparent groundwater flow path from the Northern Source Area. Groundwater within the LOF is not used for drinking water, irrigation, or industrial supply;[5] therefore, the ingestion and inhalation from the tap water pathway is not complete.

STRATEGY FOR ADDITIONAL WORK

Farallon will continue to monitor 1,4-dioxane in groundwater during the 2023 annual groundwater monitoring event. It is anticipated that any residual 1,4-dioxane at concentrations exceeding DEQ RBCs in groundwater would be mitigated by implementation of the institutional controls required by the ROD.

[4] *Monitoring and Performance Evaluation Report – Soil Vapor Remedy, Conger Facility, ECSI File No. 1139 (Priestley/Tarr Facility), 2429 North Borthwick Avenue, Portland, Oregon* dated November 23, 2021 prepared by Farallon for Conger/Priestley.
[5] Technical Memorandum Regarding Beneficial Water Use Determination Annual Review, Priestley/Tarr Facility, 2429 North Borthwick Avenue, Portland, Oregon dated August 25, 2020 from Gabriela Ferreira and Mark Havighorst of Farallon to Anna Coates of DEQ.

CLOSING

Please contact Mark Havighorst at (503) 460-7146 if you have any questions or comments.

Sincerely,

Farallon Consulting, L.L.C.

Mark Havighorst, P.E.
Principal Engineer

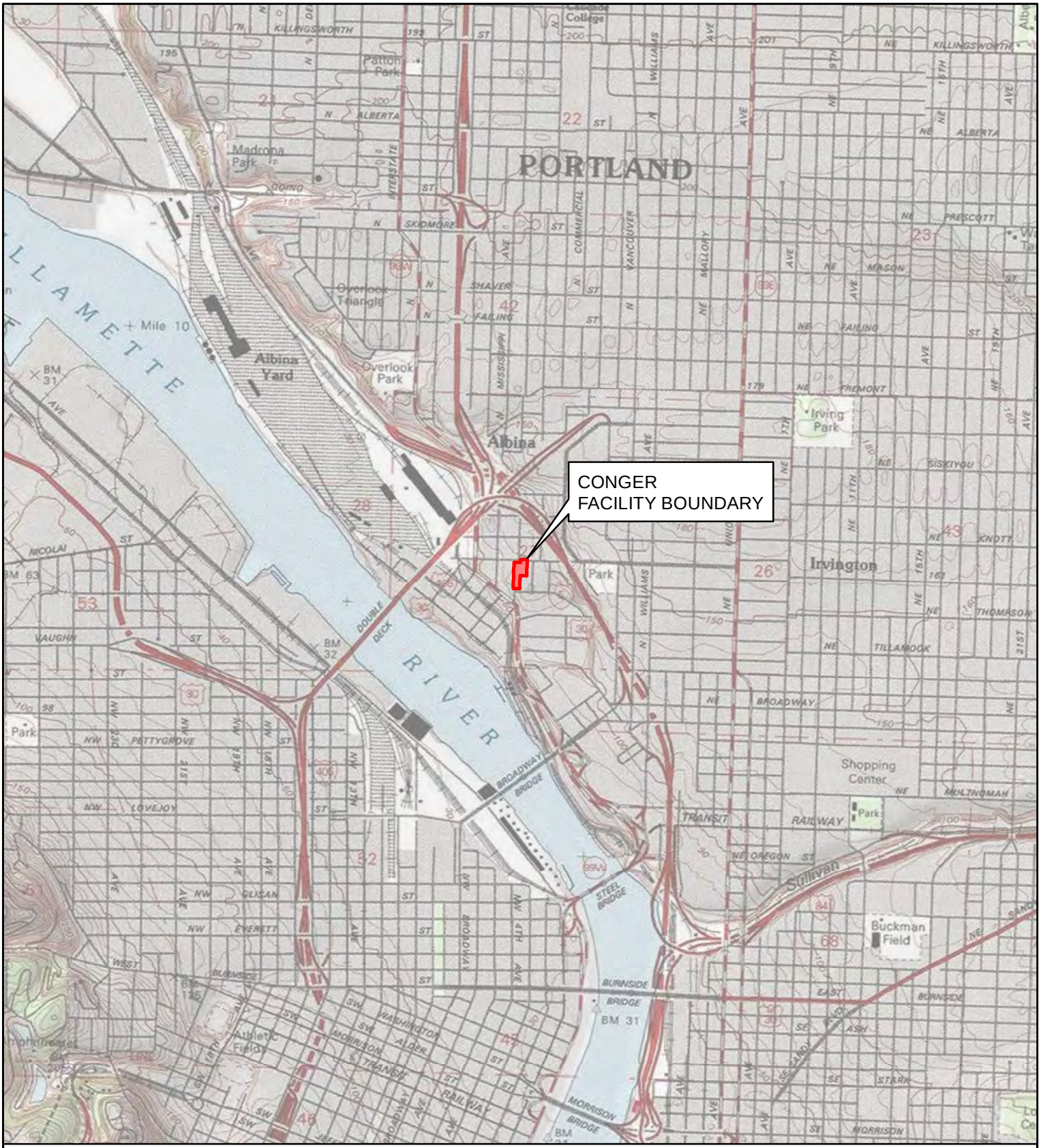
Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *1,4-Dioxane in Groundwater*
Figures 3A through 3C, *Cross Section A-A'*
Table 1, *Groundwater Analytical Results for 1,4-Dioxane*
Attachment A, Laboratory Analytical Reports

MH:sw

FIGURES

GROUNDWATER SAMPLING AND ANALYSIS FOR 1,4-DIOXANE
CONGER FACILITY (PRIESTLEY/TARR FACILITY)
ECSI File No. 1139
2429 North Borthwick Avenue
Portland, Oregon

Farallon PN: 2227-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE PORTLAND, OREGON, DATED 2013

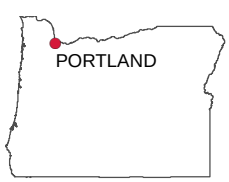


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FIGURE 1

SITE VICINITY MAP
CONGER FACILITY
2429 NORTH BORTHWICK AVENUE
PORTLAND, OREGON

FARALLON PN: 2227-001

Drawn By:jjones | Checked By: MR | Date: 2/15/2021 | Disc Reference: Q:\Projects\2227 Conger Northwest Inc\001 2429 N Borthwick Ave\Mapfiles\012_SV-Monitoring\Figure-01_SiteVicinityMap.mxd

NOTES:
BASE FIGURE FROM THE REMEDIAL ACTION RECORD OF DECISION (ROD)
AND PORTLAND HARBOR SOURCE CONTROL DECISION FOR
PRIESTLEY/TARR FACILITY, PORTLAND, OREGON DATED JULY 17, 2017
PREPARED BY OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ)
DATE AND CONCENTRATIONS REPORTED AS:
SAMPLE DATE | 1,4-DIOXANE
ANALYTICAL RESULTS IN MICROGRAMS PER LITER (µg/l).
1,4-DIOXANE DEQ RISK BASED CONCENTRATION (RBC) FOR OCCUPATIONAL INGESTION IS 2.4 µg/l.

BOLD = DENOTES CONCENTRATIONS EXCEEDING APPLICABLE DEQ RISK BASED CONCENTRATIONS
< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LABORATORY PRACTICAL QUANTITATION LIMIT LISTED
--- = DENOTES SAMPLE NOT ANALYZED
SVE = SOIL VAPOR EXTRACTION
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
DNAPL = DENSE NONAQUEOUS-PHASE LIQUID
EPA = ENVIRONMENTAL PROTECTION AGENCY
MCL = MAXIMUM CONTAMINANT LEVEL

ALL LOCATIONS ARE APPROXIMATE
FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION

MW-11
02/03/2022|<0.17
08/19/2022|<0.5

MW-5C
02/03/2022|<0.17
08/17/2022|<0.5

MW-5B
08/25/2020|**90**
02/24/2021|**45**
02/03/2022|**120**
08/17/2022|**98**

MW-17B
08/24/2020|0.76
02/03/2022|0.2
08/17/2022|<0.5

MW-5A
08/26/2020|**130**
02/24/2021|**14**
02/03/2022|**120**
08/17/2022|**130**

MW-17A
08/24/2020|**340**
02/04/2022|<1.7
08/17/2022|0.98

MW-1
02/03/2022|<0.17
08/16/2022|<0.5

MW-7
03/01/2021|0.084
02/01/2022|<1.7
08/18/2022|<0.5

MW-20
08/26/2020|**25**
02/25/2021|**57**
02/01/2022|**43**
08/16/2022|**21**

MW-12
02/02/2022|0.47
08/18/2022|0.51

MW-21
08/27/2020|**2.7**
02/26/2021|<0.20
02/02/2022|<0.85
08/18/2022|0.82

MW-17C
08/24/2020|0.12
02/04/2022|<1.7
08/17/2022|<0.5

MW-4
02/04/2022|**1,400**
08/17/2022|**740**

MW-3
02/04/2022|<1.7
08/18/2022|<0.5

MW-23
02/04/2022|**6.3**
08/16/2022|**15**

MW-18
08/25/2020|<1.0
02/01/2022|<0.17
08/16/2022|<0.5

MW-2
02/03/2022|**19**
08/16/2022|**10**

MW-8
02/26/2021|**93**
08/16/2022|**6.5**

MW-22
02/01/2022|**7**
08/16/2022|**9.7**

MW-10
03/02/2021|**3.5**
02/03/2022|**3.9**
08/17/2022|<0.5

MW-6
02/02/2022|<0.17
08/17/2022|<0.5

MW-10B
03/02/2021|<0.20
02/03/2022|<0.17
08/17/2022|<0.5

MW-6B
02/02/2022|<0.17
08/17/2022|<0.5

MW-9
02/23/2021|<0.040
02/02/2022|1.1
08/17/2022|**5.7**

MW-13
02/26/2021|2.2
02/02/2022|2.1
08/18/2022|2.3

MW-16
02/03/2022|<0.17
08/19/2022|<0.5

MW-19B
03/01/2021|**4.2**
02/01/2022|**3.2**
08/16/2022|**4.2**

MW-14
02/26/2021|**3.0**
02/04/2022|**3.1**
08/18/2022|**2.5**

MW-15
02/02/2022|<0.17
08/18/2022|<0.5

MW-19A
03/01/2021|**3.1**
02/01/2022|2.3
08/16/2022|**2.7**

MULT 89881

MW005

740

NORTH MISSISSIPPI AVENUE
NORTH RUSSELL STREET
NORTH RANDOLPH AVENUE
NORTH INTERSTATE AVENUE
NORTH ALBINA AVENUE
NORTH BORTHWICK AVENUE
NORTH ROSS STREET
NORTH PAGE STREET
INTERSTATE I-405
NORTH HARDING AVENUE
NORTH RIVER STREET
NORTH CLARK AVENUE
NORTH LEWIS AVENUE
WILLAMETTE RIVER

A
A'

LEGEND

- GROUNDWATER MONITORING WELL
- MONITORING WELL NOT FOR SITE
- 1,4-DIOXANE ISOCONCENTRATION CONTOUR OF 2.4 µg/l (FEBRUARY 2022 DATA ONLY)
- A A' CROSS SECTION
- ? INDUSTRIAL GROUNDWATER USE REMEDIAL ACTION AREA (PCE > 5 µg/l OR TCE > 5 µg/l) DASHED WHERE INFERRED
- FORMER DRY CLEANING FACILITY (BASED ON HART CROWSER INC. 2015)
- APPROXIMATE EXTENT OF POTENTIAL DNAPL FROM 2019 BASELINE SAMPLING EVENT
- SOIL SAMPLE LOCATION GREATER THAN PCE cSAT CONCENTRATION (193 mg/kg)
- SOURCE AREA IDENTIFIED IN REMEDIAL INVESTIGATION REPORT
- GROUNDWATER CONCENTRATIONS EXCEEDING 1% DNAPL GUIDELINE
- GROUNDWATER VAPOR INTRUSION RAA (PCE > 32,000 µg/l OR TCE > 3,300 µg/l)
- INDUSTRIAL GROUNDWATER USE POTENTIAL HOTSPOT (PCE OR TCE > EPA MCL)
- INDUSTRIAL GROUNDWATER USE POTENTIAL HOTSPOT (TCE HI > 1)
- MULTNOMAH COUNTY PARCEL BOUNDARY

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FIGURE 2

1,4-DIOXANE IN GROUNDWATER
CONGER FACILITY
2429 NORTH BORTHWICK AVENUE
PORTLAND, OREGON

FARALLON PN: 2227-001

Drawn By: jjones
Checked By: MR
Date: 11/10/2022
Disc Reference:
Q:\Projects\2227 Conger Northwest Inc\001 2429 N Borthwick Ave\Mapfiles\009_ProgressReport_2022-11\Figure-02_GW_Dioxane_2022-11.mxd

TABLE

GROUNDWATER SAMPLING AND ANALYSIS FOR 1,4-DIOXANE
CONGER FACILITY (PRIESTLEY/TARR FACILITY)
ECSI File No. 1139
2429 North Borthwick Avenue
Portland, Oregon

Farallon PN: 2227-001

Table 1
Groundwater Analytical Results for 1,4-Dioxane
Conger Facility (Priestley/Tarr Facility)
Portland, Oregon
Farallon PN: 2227-001

Area	Sample Location	Screened Interval (feet bgs)		Sample Date	Sample Identification	Analytical Results (micrograms per liter)[1]
		Top	Bottom			1,4-Dioxane
Facility Parcel 1	MW-1	60	80	2/3/2022	MW-1-020322	<0.17
				8/16/2022	MW-1-081622	<0.5
Facility Parcel 6	MW-2	54	75	2/3/2022	MW-2-020322	**19**
				8/16/2022	MW-2-081622	**10**
Facility Parcel 2	MW-3	60	80	2/4/2022	MW-3-020422	<1.7
				8/18/2022	MW-3-081822	<0.5
Northern Source Area	MW-4	60	80	2/4/2022	MW-4-020422	**1400**
				8/17/2022	MW-4-081722	**740**
Facility Parcel 8	MW-5A	57	67	8/26/2020	MW-5A-082620	**130**
				2/24/2021	MW-5A-022421	**14**
				2/3/2022	MW-5A-020322	**120**
				8/17/2022	MW-5A-081722	**130**
	MW-5B	77	81.5	8/25/2020	MW-5B-082520	**90**
				2/24/2021	MW-5B-022421	**45**
				2/3/2022	MW-5B-020322	**120**
				8/17/2022	MW-5B-081722	**98**
	MW-5C	95	105	2/3/2022	MW-5C-020322	<0.17
				8/17/2022	MW-5C-081722	<0.5
Facility Parcel 8	MW-6	62	72	2/2/2022	MW-6-020222	<0.17
				8/17/2022	MW-6-081722	<0.5
	MW-6B	88	98	2/2/2022	MW-6B-020222	<0.17
				8/17/2022	MW-6B-081722	<0.5
Between Albina and Mississippi Avenues	MW-7	61	74	3/1/2021	MW-7-030121	0.084 J
				2/1/2022	MW-7-020122	<1.7
				8/18/2022	MW-7-081822	<0.5
Between Albina and Mississippi Avenues	MW-8	58.5	68.5	2/26/2021	MW-8-022621	**93**
				8/16/2022	MW-8-081622	**6.5**
	MW-9	62	72	2/23/2021	MW-9-022321	< 0.040
				2/2/2022	MW-9-020222	**1.1**
				8/17/2022	MW-9-081722	**5.7**
North Harding Avenue ROW	MW-10	45	55	3/2/2021	MW-10-030221	**3.5**
				2/3/2022	MW-10-020322	**3.9**
				8/17/2022	MW-10-081722	<0.5
	MW-10B	95	105	3/2/2021	MW-10B-030221	< 0.20
				2/3/2022	MW-10B-020322	<0.17
				8/17/2022	MW-10B-081722	<0.5
North Albina Avenue ROW	MW-11	90	100	2/3/2022	MW-11-020322	<0.17
				8/19/2022	MW-11-081922	<0.5
North Randolph Avenue ROW	MW-12	50	60	2/2/2022	MW-12-020222	**0.47**
				8/18/2022	MW-12-081822	**0.51**
North Loring Street ROW	MW-13	34.7	44.7	2/26/2021	MW-13-022621	2.2 J
				2/2/2022	MW-13-020222	**2.1**
				8/18/2022	MW-13-081822	**2.3**
North River Street ROW	MW-14	44.1	54.1	2/26/2021	MW-14-022621	**3.0**
				2/4/2022	MW-14-020422	**3.1**
				8/18/2022	MW-14-081822	**2.5**
North Clark Avenue ROW	MW-15	50	60	2/2/2022	MW-15-020222	<0.17
				8/18/2022	MW-15-081822	<0.5
North Page Street ROW	MW-16	60	70	2/3/2022	MW-16-020322	<0.17
				8/19/2022	MW-16-081922	<0.5
Northern Source Area	MW-17A	66	76	8/24/2020	MW-17A-082420	**340**
				2/4/2022	MW-17A-020422	<1.7
				8/17/2022	MW-17A-081722	0.98
	MW-17B	87	97	8/24/2020	MW-17B-082420	0.76 J
				2/3/2022	MW-17B-020322	**0.2**
				8/17/2022	MW-17B-081722	<0.5
	MW-17C	125	130	8/24/2020	MW-17C-082420	0.12 J
				2/4/2022	MW-17C-020422	<1.7
				8/17/2022	MW-17C-081722	<0.5

Table 1
Groundwater Analytical Results for 1,4-Dioxane
Conger Facility (Priestley/Tarr Facility)
Portland, Oregon
Farallon PN: 2227-001

Area	Sample Location	Screened Interval (feet bgs)		Sample Date	Sample Identification	Analytical Results (micrograms per liter)[1]
		Top	Bottom			1,4-Dioxane
Central Source Area	MW-18	90	100	8/25/2020	MW-18-082520	< 1.0
				2/1/2022	MW-18-020122	<0.17
				8/16/2022	MW-18-081622	<0.5
DEQ RBC: Ingestion and Inhalation from Tap Water for Urban Residential[2]						**2**
DEQ RBC: Vapor Intrusion into Buildings for Occupational[2]						**4,500,000**
DEQ RBC: Vapor Intrusion into Buildings for Urban Residential[2]						**810,000**
DEQ RBC: Ingestion and Inhalation from Tap Water for Occupational[2]						**2.4**
Proximate to Fremont Bridge	MW-19A	40	50	3/1/2021	MW-19A-030121	**3.1**
				2/1/2022	MW-19A-020122	**2.3**
				8/16/2022	MW-19A-081622	**2.7**
	MW-19B	90	100	3/1/2021	MW-19B-030121	**4.2**
				2/1/2022	MW-19B-020122	**3.2**
				8/16/2022	MW-19B-081622	**4.2**
Albina Avenue ROW	MW-20	70	80	8/26/2020	MW-20-082620	**25**
				2/25/2021	MW-20-022521	**57**
				2/1/2022	MW-20-020122	**43**
				8/16/2022	MW-20-081622	**21**
Mississippi Avenue ROW	MW-21	60	70	8/27/2020	MW-21-082720	**2.7** J
				2/26/2021	MW-21-022621	< 0.20
				2/2/2022	MW-21-020222	<0.85
				8/18/2022	MW-21-081822	0.82
Widmer Brothers Property	MW-22	60	70	2/1/2022	MW-22-020122	**7**
				8/16/2022	MW-22-081622	**9.7**
Albina Avenue ROW	MW-23	70	80	2/4/2022	MW-23-020422	**6.3**
				2/4/2022	DUP-23-020422	**6.1**
				8/16/2022	MW-23-081622	**15**
DEQ RBC: Ingestion and Inhalation from Tap Water for Urban Residential[2]						**2**
DEQ RBC: Vapor Intrusion into Buildings for Occupational[2]						**4,500,000**
DEQ RBC: Vapor Intrusion into Buildings for Urban Residential[2]						**810,000**
DEQ RBC: Ingestion and Inhalation from Tap Water for Occupational[2]						**2.4**

NOTES:

Results in **bold** and highlighted **orange** denote concentrations exceeding one or more applicable DEQ RBC.

< denotes analyte not detected at or exceeding the MRL listed.

[1] 1,4-Dioxane analyzed by U.S. Environmental Protection Agency Method 8270M.

[2]State of Oregon Department of Environmental Quality Risk-Based Concentrations Table, revised May 2018.

DEQ = Oregon Department of Environmental Quality

bgs = below ground surface

J = result is an estimate

MRL = method reporting limit

RBC = Risk-Based Concentration

ROW = right of way

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

GROUNDWATER SAMPLING AND ANALYSIS FOR 1,4-DIOXANE
CONGER FACILITY (PRIESTLEY/TARR FACILITY)
ECSI File No. 1139
2429 North Borthwick Avenue
Portland, Oregon

Farallon PN: 2227-001

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Tuesday, September 20, 2022

Mark Havighorst
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

RE: A2H0582 - Conger Facility - 2227-001-7

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0582, which was received by the laboratory on 8/17/2022 at 10:02:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	0.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-22-081622	A2H0582-01	Water	08/16/22 12:05	08/17/22 10:02
MW-08-081622	A2H0582-02	Water	08/16/22 14:41	08/17/22 10:02
MW-20-081622	A2H0582-03	Water	08/16/22 17:05	08/17/22 10:02
MW-19A-081622	A2H0582-04	Water	08/16/22 15:22	08/17/22 10:02
MW-19B-081622	A2H0582-05	Water	08/16/22 15:40	08/17/22 10:02
MW-1-081622	A2H0582-06	Water	08/16/22 12:55	08/17/22 10:02
MW-2-081622	A2H0582-07	Water	08/16/22 09:50	08/17/22 10:02
MW-23-081622	A2H0582-08	Water	08/16/22 12:00	08/17/22 10:02
MW-18-081622	A2H0582-09	Water	08/16/22 09:40	08/17/22 10:02

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-22-081622 (A2H0582-01)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**9.7**	---	0.50	ug/l	1	08/23/22 18:54	EPA 8270M	
MW-08-081622 (A2H0582-02)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**6.5**	---	0.50	ug/l	1	08/23/22 19:20	EPA 8270M	
MW-20-081622 (A2H0582-03)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**21**	---	0.50	ug/l	1	08/23/22 19:45	EPA 8270M	
MW-19A-081622 (A2H0582-04)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**2.7**	---	0.50	ug/l	1	08/23/22 20:11	EPA 8270M	
MW-19B-081622 (A2H0582-05)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**4.2**	---	0.50	ug/l	1	08/23/22 20:36	EPA 8270M	
MW-1-081622 (A2H0582-06)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/23/22 21:02	EPA 8270M	
MW-2-081622 (A2H0582-07)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**10**	---	0.50	ug/l	1	08/23/22 21:27	EPA 8270M	
MW-23-081622 (A2H0582-08)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	**15**	---	0.50	ug/l	1	08/23/22 22:18	EPA 8270M	
MW-18-081622 (A2H0582-09)				**Matrix: Water**		**Batch: W2H1776**		
Batch: W2H1776								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/23/22 22:44	EPA 8270M	

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H1776 - SPME							**Water**					
Blank (W2H1776-BLK1)			Prepared: 08/22/22 16:24		Analyzed: 08/23/22 15:55							
EPA 8270M												
1,4-Dioxane	ND	---	0.50	ug/l	1	---	---	---	---	---	---	
LCS (W2H1776-BS1)			Prepared: 08/22/22 16:24		Analyzed: 08/23/22 16:21							
EPA 8270M												
1,4-Dioxane	9.24	---	0.50	ug/l	1	10.0	---	92	70-130%	---	---	
Matrix Spike (W2H1776-MS1)			Prepared: 08/22/22 16:24		Analyzed: 08/23/22 16:46							
QC Source Sample: A2H0582-01 (A2H0582-01)												
EPA 8270M												
1,4-Dioxane	19.2	---	0.50	ug/l	1	10.0	9.70	95	70-130%	---	---	
Matrix Spike Dup (W2H1776-MSD1)			Prepared: 08/22/22 16:24		Analyzed: 08/23/22 17:12							
QC Source Sample: A2H0582-01 (A2H0582-01)												
EPA 8270M												
1,4-Dioxane	19.1	---	0.50	ug/l	1	10.0	9.70	94	70-130%	0.6	30%	

Apex Laboratories

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Prep: SPME

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: W2H1776							
A2H0582-01	Water	EPA 8270M	08/16/22 12:05	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-02	Water	EPA 8270M	08/16/22 14:41	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-03	Water	EPA 8270M	08/16/22 17:05	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-04	Water	EPA 8270M	08/16/22 15:22	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-05	Water	EPA 8270M	08/16/22 15:40	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-06	Water	EPA 8270M	08/16/22 12:55	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-07	Water	EPA 8270M	08/16/22 09:50	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-08	Water	EPA 8270M	08/16/22 12:00	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00
A2H0582-09	Water	EPA 8270M	08/16/22 09:40	08/22/22 16:24	10ml/10ml	10ml/10ml	1.00

Apex Laboratories

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ANALYTICAL REPORT

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Philip Nerenberg, Lab Director

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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ANALYTICAL REPORT

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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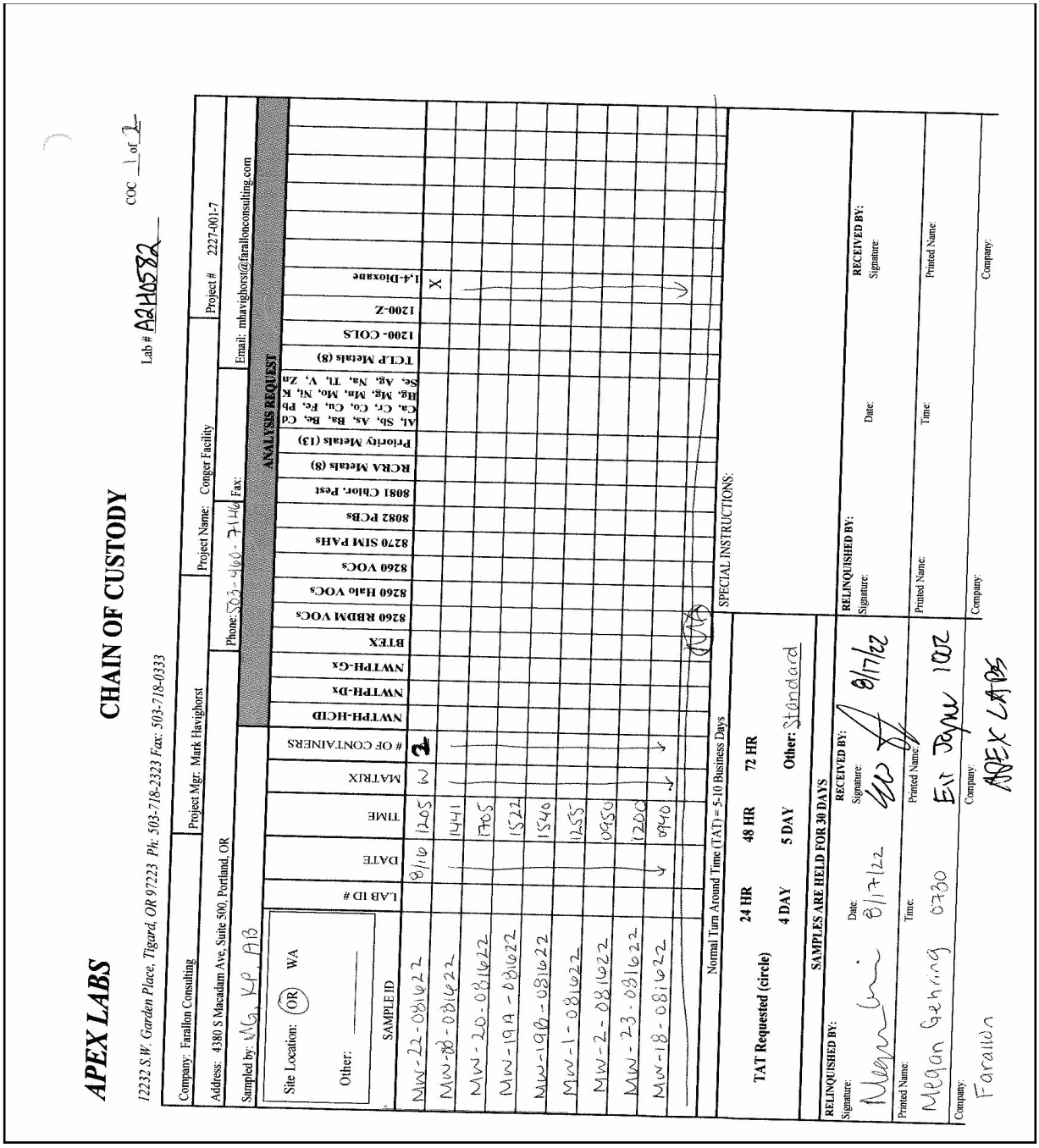

APEX LABS — **CHAIN OF CUSTODY**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

COC 1 of 1

Lab # A2H0582

Company: Farallon Consulting | Project Mgr: Mark Havighorst | Project Name: Conger Facility | Project # 2227-001-7

Address: 4380 S Macadam Ave, Suite 500, Portland, OR | Phone: 503-466-7440 | Fax: | Email: mhavighorst@farallonconsulting.com

Sampled by: MG, KP, AB

Site Location: (OR) WA

Other: ____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS
MW-22-081622		8/16	1205	W	2
MW-88-081622			1441		
MW-20-081622			1705		
MW-19A-081622			1522		
MW-19B-081622			1540		
MW-1-081622			1255		
MW-2-081622			0950		
MW-23-081622			1200		
MW-18-081622		↓	0940	↓	↓

ANALYSIS REQUEST

NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | BTEX | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs | 8270 SIM PAHs | 8082 PCBs | 8081 Chlor. Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd Ca, Cr, Co, Cu, Fe, Pb Hg, Mg, Mn, Mo, Ni, K Se, Ag, Na, Tl, V, Zn | TCLP Metals (8) | 1200- COLS | 1200-Z | 1,4-Dioxane

																		X

Normal Turn Around Time (TAT) = 5-10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: Standard

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date: 8/17/22	Date: 8/17/22	Date:	Date:
Time:	Time: 1002	Time:	Time:
Printed Name: Megan Gehring	Printed Name: Eli Joyce	Printed Name:	Printed Name:
Company: Farallon	Company: APEX LABS	Company:	Company:

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0582 - 09 20 22 0928**

APEX LABS COOLER RECEIPT FORM

Client: Farallon Consulting Element WO#: A2H0582

Project/Project #: Conger Facility 2227-001

Delivery Info:
Date/time received: 8/17/22 @ 1002 By: ET
Delivered by: Apex X Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 8/17/22 @ 1059 By: ET
Chain of Custody included? Yes X No Custody seals? Yes No X
Signed/dated by client? Yes X No
Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.9						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why:
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No
Sample Inspection: Date/time inspected: 8/17/22 @ 17:30 By: KAM
All samples intact? Yes Y No Comments:
Bottle labels/COCs agree? Yes Y No Comments:
COC/container discrepancies form initiated? Yes No X
Containers/volumes received appropriate for analysis? Yes Y No Comments:
Do VOA vials have visible headspace? Yes No X NA X KAM 8/17/22
Comments
Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X
Comments:
Additional information:
Labeled by: KAM Witness: APK Cooler Inspected by: KAM

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Tuesday, September 20, 2022

Mark Havighorst
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

RE: A2H0599 - Conger Facility - 2227-001-7

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0599, which was received by the laboratory on 8/18/2022 at 10:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-05C-081722	A2H0599-01	Water	08/17/22 15:21	08/18/22 10:00
MW-06B-081722	A2H0599-02	Water	08/17/22 09:15	08/18/22 10:00
MW-05A-081722	A2H0599-03	Water	08/17/22 11:35	08/18/22 10:00
MW-04-081722	A2H0599-04	Water	08/17/22 14:26	08/18/22 10:00
MW-17C-081722	A2H0599-05	Water	08/17/22 12:37	08/18/22 10:00
MW-09-081722	A2H0599-06	Water	08/17/22 10:36	08/18/22 10:00
MW-10B-081722	A2H0599-07	Water	08/17/22 15:50	08/18/22 10:00
MW-17B-081722	A2H0599-08	Water	08/17/22 13:15	08/18/22 10:00
MW-10-081722	A2H0599-09	Water	08/17/22 15:54	08/18/22 10:00
MW-17A-081722	A2H0599-10	Water	08/17/22 11:40	08/18/22 10:00
MW-06-081722	A2H0599-11	Water	08/17/22 09:20	08/18/22 10:00
MW-05B-081722	A2H0599-12	Water	08/17/22 13:17	08/18/22 10:00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-05C-081722 (A2H0599-01)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 01:43	EPA 8270M	
MW-06B-081722 (A2H0599-02)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 02:08	EPA 8270M	
MW-05A-081722 (A2H0599-03)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	**130**	---	5.0	ug/l	10	08/24/22 15:02	EPA 8270M	**M-05**
MW-04-081722 (A2H0599-04)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	**740**	---	10	ug/l	20	08/24/22 15:27	EPA 8270M	**M-05**
MW-17C-081722 (A2H0599-05)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 03:25	EPA 8270M	
MW-09-081722 (A2H0599-06)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	**5.7**	---	0.50	ug/l	1	08/24/22 03:50	EPA 8270M	
MW-10B-081722 (A2H0599-07)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 04:16	EPA 8270M	
MW-17B-081722 (A2H0599-08)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 04:41	EPA 8270M	
MW-10-081722 (A2H0599-09)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	**2.8**	---	0.50	ug/l	1	08/24/22 15:53	EPA 8270M	

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Philip Nerenberg, Lab Director

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-17A-081722 (A2H0599-10)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	**0.98**	---	0.50	ug/l	1	08/24/22 05:32	EPA 8270M	
MW-06-081722 (A2H0599-11)				**Matrix: Water**		**Batch: W2H1777**		
Batch: W2H1777								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/24/22 06:23	EPA 8270M	
MW-05B-081722 (A2H0599-12RE1)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**98**	---	5.0	ug/l	10	08/24/22 23:49	EPA 8270M	**M-05**

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H1777 - SPME							**Water**					
Blank (W2H1777-BLK1)			Prepared: 08/22/22 16:27		Analyzed: 08/24/22 00:01							
EPA 8270M												
1,4-Dioxane	ND	---	0.50	ug/l	1	---	---	---	---	---	---	
LCS (W2H1777-BS1)			Prepared: 08/22/22 16:27		Analyzed: 08/24/22 00:26							
EPA 8270M												
1,4-Dioxane	9.11	---	0.50	ug/l	1	10.0	---	91	70-130%	---	---	
Matrix Spike (W2H1777-MS1)			Prepared: 08/22/22 16:27		Analyzed: 08/24/22 00:52							
QC Source Sample: A2H0599-01 (A2H0599-01)												
EPA 8270M												
1,4-Dioxane	9.07	---	0.50	ug/l	1	10.0	ND	91	70-130%	---	---	
Matrix Spike Dup (W2H1777-MSD1)			Prepared: 08/22/22 16:27		Analyzed: 08/24/22 01:17							
QC Source Sample: A2H0599-01 (A2H0599-01)												
EPA 8270M												
1,4-Dioxane	9.09	---	0.50	ug/l	1	10.0	ND	91	70-130%	0.2	30%	
Batch W2H2042 - SPME							**Water**					
Blank (W2H2042-BLK1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:15							
EPA 8270M												
1,4-Dioxane	ND	---	0.50	ug/l	1	---	---	---	---	---	---	
LCS (W2H2042-BS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:40							
EPA 8270M												
1,4-Dioxane	9.51	---	0.50	ug/l	1	10.0	---	95	70-130%	---	---	
Matrix Spike (W2H2042-MS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:06							
QC Source Sample: Non-SDG (2H23033-01)												
EPA 8270M												
1,4-Dioxane	9.52	---	0.50	ug/l	1	10.0	ND	95	70-130%	---	---	

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H2042 - SPME							**Water**					
Matrix Spike Dup (W2H2042-MSD1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:31							
QC Source Sample: Non-SDG (2H23033-01)												
1,4-Dioxane	9.72	---	0.50	ug/l	1	10.0	ND	97	70-130%	2	30%	

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Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Prep: SPME

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: W2H1777							
A2H0599-01	Water	EPA 8270M	08/17/22 15:21	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-02	Water	EPA 8270M	08/17/22 09:15	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-03	Water	EPA 8270M	08/17/22 11:35	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-04	Water	EPA 8270M	08/17/22 14:26	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-05	Water	EPA 8270M	08/17/22 12:37	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-06	Water	EPA 8270M	08/17/22 10:36	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-07	Water	EPA 8270M	08/17/22 15:50	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-08	Water	EPA 8270M	08/17/22 13:15	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-09	Water	EPA 8270M	08/17/22 15:54	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-10	Water	EPA 8270M	08/17/22 11:40	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
A2H0599-11	Water	EPA 8270M	08/17/22 09:20	08/22/22 16:27	10ml/10ml	10ml/10ml	1.00
Batch: W2H2042							
A2H0599-12RE1	Water	EPA 8270M	08/17/22 13:17	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00

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ANALYTICAL REPORT

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Weck Laboratories, Inc.

M-05 Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: 2227-001-7	**Report ID:**
Portland, OR 97239	Project Manager: Mark Havighorst	A2H0599 - 09 20 22 0934

APEX LABS

CHAIN OF COUSTODY

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # A2H0599 COC 1 of 2

Company: Farallon Consulting	Project Mgr: Mark Havighorst	Project Name: Conger Facility	Project # 2227-001-7
Address: 4380 S Macadam Ave, Suite 500, Portland, OR	Phone: 503-460-7140	Fax:	Email: mhavighorst@farallonconsulting.com
Sampled by: K. Parks, M. Gehring, A. Bakouros			

Site Location: (OR) WA

Other: ______

ANALYSIS REQUEST: NWTPH-HCID, NWTPH-Dx, NWTPH-Gx, BTEX, 8260 RBDM VOCs, 8260 Halo VOCs, 8260 VOCs, 8270 SIM PAHs, 8082 PCBs, 8081 Chlor. Pest, RCRA Metals (8), Priority Metals (13), Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn, TCLP Metals (8), 1200-COLS, 1200-Z, 1,4-Dioxane

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	1,4-Dioxane
MW-05C-081722		08-17-22	1521	W	2	X
MW-06B-081722		↓	0915	↓	↓	↓
MW-05A 081722		↓	1135	↓	↓	↓
MW-04-081722		↓	1426	↓	↓	↓
MW-17C-081722		↓	1237	↓	↓	↓
MW-09-081722		↓	1036	↓	↓	↓
MW-10B-081722		↓	1550	↓	↓	↓
MW-17B-081722		↓	1315	↓	↓	↓
MW-10-081722		↓	1554	↓	↓	↓
MW-17A-081722		↓	1140	↓	↓	↓

Normal Turn Around Time (TAT) = 5-10 Business Days

TAT Requested (circle): 24 HR 48 HR 72 HR 4 DAY 5 DAY (Other: Standard)

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: [signature] Date: 8/18/22	RECEIVED BY: Signature: [signature] Date: 8/18/22	RELINQUISHED BY: Signature: Date:	RECEIVED BY: Signature:
Printed Name: Megan Gehring Time: 0730	Printed Name: Eric Doyle Time: 1000	Printed Name: Time:	Printed Name:
Company: Farallon	Company: APEX Labs	Company:	Company:

Apex Laboratories

[signature]

Philip Nerenberg, Lab Director

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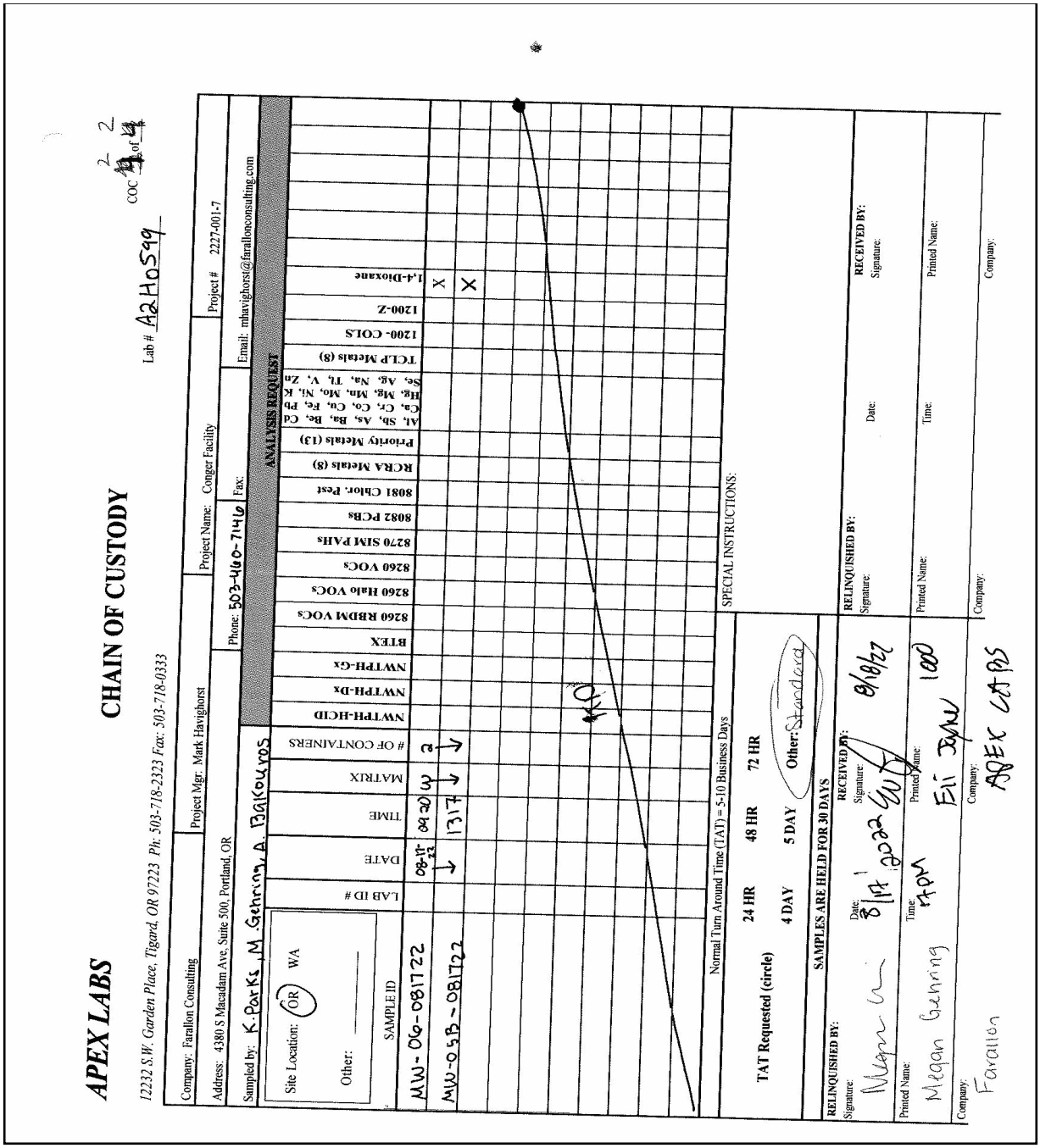
ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**



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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0599 - 09 20 22 0934**

APEX LABS COOLER RECEIPT FORM

Client: Farallon Consulting Element WO#: A2H0599

Project/Project #: Conger Facility 2227-001-7

Delivery Info:

Date/time received: 8/18/22 @ 1000 By: ET

Delivered by: Apex X Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 8/18/22 @ 1050 By: ET

Chain of Custody included? Yes X No ___ Custody seals? Yes ___ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.9						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Gel/Real						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why: ___

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 8/18/22 @ 11:38 By: ZAM

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes X No ___ NA ___

Comments MW-05C-081722 2/2 have HS.

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: ___

Additional information: ___

Labeled by: KAM Witness: [signature] Cooler Inspected by: ZAM

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Laboratories, LLC
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ANALYTICAL REPORT

Tuesday, September 20, 2022

Mark Havighorst
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

RE: A2H0672 - Conger Facility - 2227-001-7

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0672, which was received by the laboratory on 8/19/2022 at 4:20:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 1.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12-081822	A2H0672-01	Water	08/18/22 14:15	08/19/22 16:20
MW-07-081822	A2H0672-02	Water	08/18/22 12:16	08/19/22 16:20
MW-14-081822	A2H0672-03	Water	08/18/22 10:11	08/19/22 16:20
MW-03-081822	A2H0672-04	Water	08/18/22 11:34	08/19/22 16:20
MW-15-081822	A2H0672-05	Water	08/18/22 14:55	08/19/22 16:20
MW-21-081822	A2H0672-06	Water	08/18/22 12:50	08/19/22 16:20
MW-13-081822	A2H0672-07	Water	08/18/22 10:10	08/19/22 16:20
DUP-1-081822	A2H0672-08	Water	08/18/22 00:00	08/19/22 16:20
DUP-2-081822	A2H0672-09	Water	08/18/22 00:00	08/19/22 16:20

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-081822 (A2H0672-01)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**0.51**	---	0.50	ug/l	1	08/25/22 02:48	EPA 8270M	
MW-07-081822 (A2H0672-02)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/25/22 12:47	EPA 8270M	
MW-14-081822 (A2H0672-03)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**2.5**	---	0.50	ug/l	1	08/25/22 03:39	EPA 8270M	
MW-03-081822 (A2H0672-04)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/25/22 04:05	EPA 8270M	
MW-15-081822 (A2H0672-05)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/25/22 04:30	EPA 8270M	
MW-21-081822 (A2H0672-06)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**0.82**	---	0.50	ug/l	1	08/25/22 13:13	EPA 8270M	
MW-13-081822 (A2H0672-07)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**2.3**	---	0.50	ug/l	1	08/25/22 13:38	EPA 8270M	
DUP-1-081822 (A2H0672-08)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**2.3**	---	0.50	ug/l	1	08/25/22 14:04	EPA 8270M	
DUP-2-081822 (A2H0672-09)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	**2.4**	---	0.50	ug/l	1	08/25/22 14:29	EPA 8270M	

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Laboratories, LLC
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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H2042 - SPME							**Water**					
Blank (W2H2042-BLK1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:15							
EPA 8270M												
1,4-Dioxane	ND	---	0.50	ug/l	1	---	---	---	---	---	---	
LCS (W2H2042-BS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:40							
EPA 8270M												
1,4-Dioxane	9.51	---	0.50	ug/l	1	10.0	---	95	70-130%	---	---	
Matrix Spike (W2H2042-MS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:06							
QC Source Sample: Non-SDG (2H23033-01)												
EPA 8270M												
1,4-Dioxane	9.52	---	0.50	ug/l	1	10.0	ND	95	70-130%	---	---	
Matrix Spike Dup (W2H2042-MSD1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:31							
QC Source Sample: Non-SDG (2H23033-01)												
1,4-Dioxane	9.72	---	0.50	ug/l	1	10.0	ND	97	70-130%	2	30%	

Apex Laboratories

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Prep: SPME

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: W2H2042							
A2H0672-01	Water	EPA 8270M	08/18/22 14:15	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-02	Water	EPA 8270M	08/18/22 12:16	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-03	Water	EPA 8270M	08/18/22 10:11	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-04	Water	EPA 8270M	08/18/22 11:34	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-05	Water	EPA 8270M	08/18/22 14:55	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-06	Water	EPA 8270M	08/18/22 12:50	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-07	Water	EPA 8270M	08/18/22 10:10	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-08	Water	EPA 8270M	08/18/22 00:00	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0672-09	Water	EPA 8270M	08/18/22 00:00	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Philip Nerenberg, Lab Director

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Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories, LLC
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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

APEX LABS

CHAIN OF CUSTODY

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # A2H0672 COC 1 of 1

Company: Farallon Consulting | Project Mgr: Mark Havighorst | Project Name: Conger Facility | Project # 2227-001-7

Address: 4380 S Macadam Ave, Suite 500, Portland, OR | Phone: 503-460-7146 | Fax: | Email: mhavighorst@farallonconsulting.com

Sampled by: MG, KP, AB

Site Location: (OR) WA

Other: ______

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs	8270 SIM PAHs	8082 PCBs	8081 Chlor. Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	1200-COLS	1200-Z	1,4-Dioxane
MW-12-081822		8/18	1415	W	2																	
MW-07-081822			1216																			X
MW-14-081822			1011																			
MW-03-081822			1134																			
MW-15-081822			1455																			
MW-21-081822			1250																			
MW-13-081822			1010																			
DUP-1-081822			NA																			
DUP-2-081822			NA																			

Normal Turn Around Time (TAT) = 5-10 Business Days

TAT Requested (circle) 24 HR 48 HR 72 HR 4 DAY 5 DAY (Other: Standard)

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:
Signature: Megan [signature]	Date: 8/19/22	Signature: [signature]	Date: 8/19/22	Signature:	Date:	Signature:
Printed Name: Megan Gehring	Time: 0730	Printed Name: Eric Taylor	Time: 1620	Printed Name:	Time:	Printed Name:
Company: Farallon		Company: APEX LABS		Company:		Company:

Apex Laboratories, LLC
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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0672 - 09 20 22 0936**

APEX LABS COOLER RECEIPT FORM

Client: Farallon Consulting Element WO#: A2H0672

Project/Project #: Conger Facility 2227-001-1

Delivery Info:
Date/time received: 8/19/22 @ 1620 By: ET
Delivered by: Apex X Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 8/19/22 @ 1746 By: EJ
Chain of Custody included? Yes X No Custody seals? Yes No X
Signed/dated by client? Yes X No
Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.4						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Gel						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why:
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No
Sample Inspection: Date/time inspected: 8/19/22 @ 1815 By: EJ
All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X
Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No X NA
Comments
Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X
Comments:

Additional information:

Labeled by: EJ Witness: AHC Cooler Inspected by: EJ

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Tuesday, September 20, 2022

Mark Havighorst
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

RE: A2H0673 - Conger Facility - 2227-001-7

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0673, which was received by the laboratory on 8/19/2022 at 4:20:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0673 - 09 20 22 0938**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16-081922	A2H0673-01	Water	08/19/22 09:40	08/19/22 16:20
MW-11-081922	A2H0673-02	Water	08/19/22 11:30	08/19/22 16:20

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0673 - 09 20 22 0938**

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-16-081922 (A2H0673-01)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/25/22 01:57	EPA 8270M	
MW-11-081922 (A2H0673-02)				**Matrix: Water**		**Batch: W2H2042**		
Batch: W2H2042								
1,4-Dioxane	ND	---	0.50	ug/l	1	08/25/22 02:22	EPA 8270M	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Farallon Consulting	Project: **Conger Facility**	
4380 SW Macadam Ave #500	Project Number: **2227-001-7**	**Report ID:**
Portland, OR 97239	Project Manager: **Mark Havighorst**	**A2H0673 - 09 20 22 0938**

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H2042 - SPME							**Water**					
Blank (W2H2042-BLK1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:15							
EPA 8270M												
1,4-Dioxane	ND	---	0.50	ug/l	1	---	---	---	---	---	---	
LCS (W2H2042-BS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 00:40							
EPA 8270M												
1,4-Dioxane	9.51	---	0.50	ug/l	1	10.0	---	95	70-130%	---	---	
Matrix Spike (W2H2042-MS1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:06							
QC Source Sample: A2H0673-01 (A2H0673-01)												
EPA 8270M												
1,4-Dioxane	9.52	---	0.50	ug/l	1	10.0	ND	95	70-130%	---	---	
Matrix Spike Dup (W2H2042-MSD1)			Prepared: 08/24/22 17:48		Analyzed: 08/25/22 01:31							
QC Source Sample: A2H0673-01 (A2H0673-01)												
EPA 8270M												
1,4-Dioxane	9.72	---	0.50	ug/l	1	10.0	ND	97	70-130%	2	30%	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

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Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

1,4-Dioxane Low Level by isotopic dilution SPME-GC/MS

Prep: SPME

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: W2H2042							
A2H0673-01	Water	EPA 8270M	08/19/22 09:40	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00
A2H0673-02	Water	EPA 8270M	08/19/22 11:30	08/24/22 17:48	10ml/10ml	10ml/10ml	1.00

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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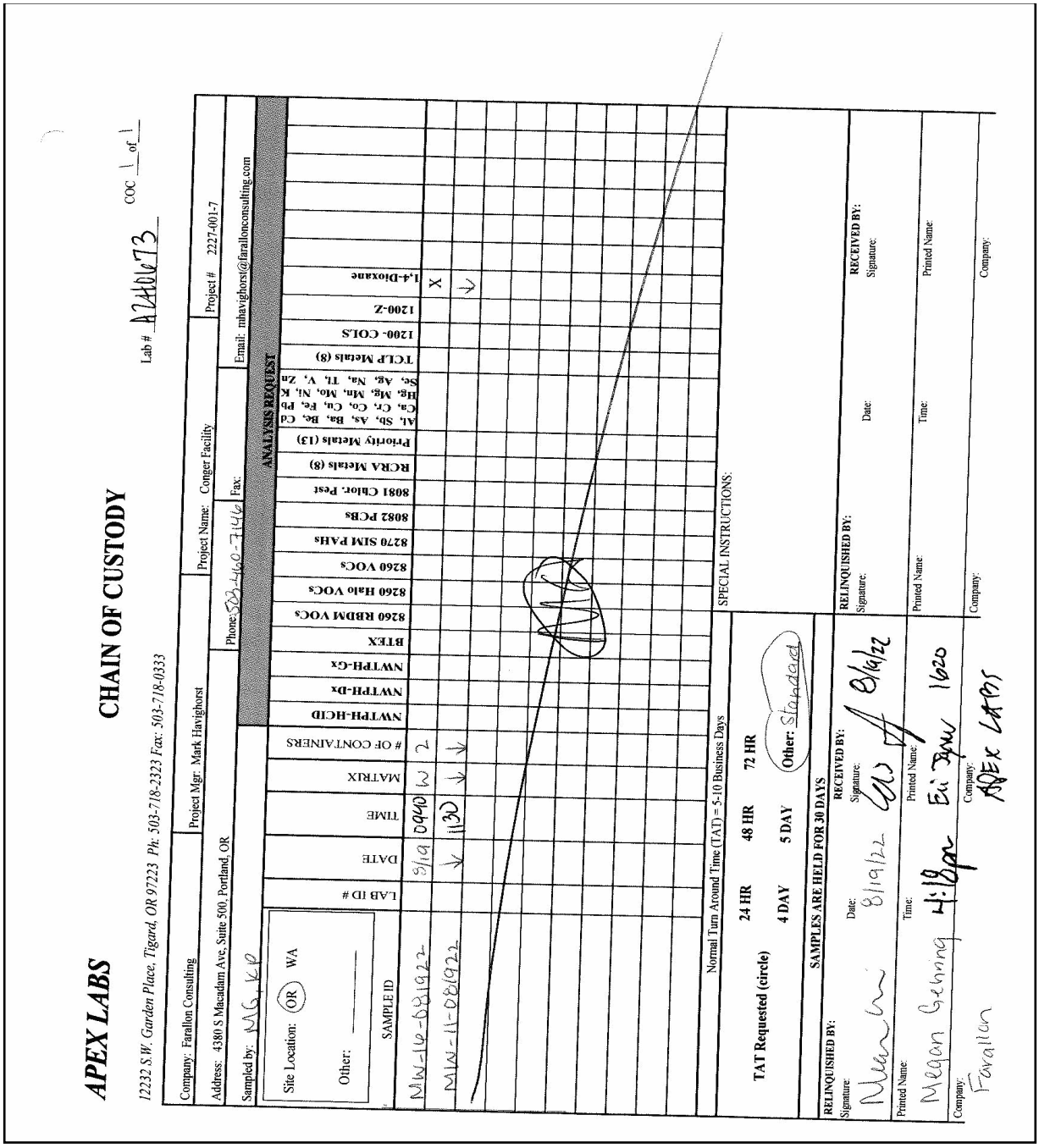

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APEX LABS COOLER RECEIPT FORM

Client: Farallon Consulting Element WO#: A2H0673

Project/Project #: Conger Facility 2227-001-1

Delivery Info:

Date/time received: 8/19/22 @ 1620 By: ET

Delivered by: Apex X Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 8/19/22 @ 1746 By: ET

Chain of Custody included? Yes X No ___ Custody seals? Yes ___ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.0						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Gel						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why: ___

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 08/19/22 @ 1815 By: ET

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No X NA ___

Comments ___

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: ___

Additional information: ___

Labeled by: ET Witness: AMC Cooler Inspected by: ET

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