

Ms. Nancy Sawka
Oregon Department of Environmental Quality
4026 Fairview Industrial Drive
Salem, Oregon 97302

Arcadis U.S., Inc.
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Oregon 97201
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Subject:

First Semi-Annual Status Report 2021
Former Chevron Bulk Terminal No. 1001782

ENVIRONMENT

Dear Ms. Sawka:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) is submitting the enclosed First Semi-Annual Status Report of 2021 for the following facility:

<u>Chevron Site No.</u>	<u>DEQ Site No.</u>	<u>Location</u>
1001782	36-90-4071	SE Davis Street and SE Chandler Avenue, McMinnville, Oregon

Date:
June 21, 2021

Contact:
Grayson Fish

Phone:
206.413.6552

If you have any questions, please contact Grayson Fish at 206.413.6552.

Email:
Grayson.Fish@arcadis.com

Sincerely,

Arcadis U.S., Inc.

Our ref:
30063816



Grayson Fish, R.G.
Registered Geologist

**SEMI-ANNUAL STATUS REPORT
FIRST HALF 2021
June 21, 2021**

Facility No:	<u>1001782</u>	Address:	<u>SE Davis Street and SE Chandler Avenue, McMinnville, OR</u>
Arcadis Contact Person / Phone No.:			<u>Grayson Fish / 206.413.6552</u>
Arcadis Project No.:			<u>30063816</u>
Primary Agency/Regulatory ID No.:			<u>Oregon Department of Environmental Quality (DEQ) / Nancy Sawka / Case No. 36-90-4071</u>

WORK CONDUCTED THIS PERIOD [FIRST HALF 2021]:

1. Conducted semi-annual groundwater sampling in March 8, 2021. Monitoring well network gauged and sampled.
2. Prepared the Semi-Annual Status Report, First Half 2021.
3. Prepared and submitted the Draft Soil Vapor Investigation Work Plan to DEQ on May 18, 2021.

WORK PROPOSED NEXT PERIOD [SECOND HALF 2021]:

1. Conduct semi-annual groundwater gauging and sampling during the second half of 2021.
2. Prepare the second semi-annual status report of 2021.
3. Following workplan approval, plan and conduct a soil vapor investigation as described in the Soil Vapor Investigation Work Plan submitted on May 18, 2021.
4. Prepare and submit a Light Non-Aqueous Phase Liquid (LNAPL) Assessment Work Plan.

Current Phase of Project:	<u>Groundwater Monitoring and Sampling</u>
Frequency of Monitoring/Sampling:	<u>Semi-Annually</u>
Is Separate Light Non-Aqueous Phase Liquid (LNAPL) Present on site?	<u>Yes</u>
LNAPL Detected During the monitoring period (thickness in feet):	<u>No</u>
Approximate Depth to Groundwater (feet below top of casing):	<u>2.20 (MW-9) to 5.60 (MW-3)</u>
Approximate Groundwater Elevation (feet relative to corresponding datum):	<u>142.03 (MW-3) to 145.28 (MW-9)</u>
Groundwater Flow Direction:	<u>North-northwest</u>

Groundwater Flow Magnitude (feet/foot):

0.040

DISCUSSION

Groundwater monitoring activities were conducted by Blaine Tech Services, Inc. (Blaine Tech) on March 8, 2021 in accordance with standard low-flow sampling procedures. During the monitoring event, nine wells (MW-1 through MW-9) were gauged for depth to water elevations. Wells were then purged, and groundwater samples collected using low-flow methods. Field data sheets are included as Attachment A.

Groundwater samples were submitted to Pace Analytical, National Center for Testing and Innovation under standard chain-of-custody procedures. Groundwater samples were analyzed for the following constituents:

- Total petroleum hydrocarbons (TPH) in the gasoline range (TPH-G) using Northwest Method NWTPH-Gx,
- TPH in the diesel range (TPH-D) and residual range (TPH-R) using Northwest Method NWTPHDx-SGT,
- Volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260D,
- Polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270E-SIM, and
- Total and dissolved lead by USEPA Method 6010D.

The site location and site map are presented in Figures 1 and 2, respectively. Groundwater monitoring and analytical data are summarized in Table 1, 2, and 3 and depicted on Figure 3. Copies of the laboratory analytical report and chain-of-custody are included in Attachment B.

Groundwater analytical results were compared to site specific exposure pathway Oregon DEQ Risk-Based Concentrations (RBCs)¹. Groundwater analytical results did not exceed any RBCs for the samples collected on March 8, 2021.

Based on a review of historical groundwater monitoring data collected at the site, Arcadis recommends continuing groundwater monitoring activities on a semi-annual basis to further evaluate groundwater quality and concentration trends.

¹ Volatilization to Outdoor Air and Vapor Intrusion into Buildings exposure pathways for residential and occupational receptors and the Groundwater in Excavation for construction and excavation workers.

ATTACHMENTS:

Table 1 – Groundwater Monitoring and Analytical Results

Table 2 – Groundwater Analytical Results – Semi-Volatile Organic Compounds

Table 3 – Groundwater Analytical Results – Polycyclic Aromatic Hydrocarbons

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Groundwater Elevation Contour and Analytical Map – March 8, 2021

Attachment A – Field Data Sheets

Attachment B – Laboratory Report and Chain-of-Custody Documentation

TABLES



Table 1. Groundwater Gauging and Analytical Results
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
MW-1	07/09/92 ⁴	98.67	7.80	--	90.87	--	--	--	--	ND	ND	ND	ND	--	--	--
MW-1	10/04/00 ⁴	98.67	7.80	--	90.87	--	--	--	--	ND	ND	ND	ND	ND	--	--
MW-1	03/16/04 ¹	98.67	4.05	--	94.62	70	120 ²	<94 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	12/02/04 ⁴	98.67	6.03	--	92.64	200	<76	<95	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	01/28/05 ¹	98.67	3.97	--	94.70	440	160 ²	<100 ²	--	<0.5	<0.5	0.5	<1.0	<0.5	--	--
MW-1	04/22/05 ¹	98.67	3.87	--	94.80	72	420 ²	390 ²	--	<0.5	<0.5	<0.5	<1.0	<0.5	--	--
MW-1	07/29/05	98.67	8.61	--	90.06	330	510 ²	<99 ²	--	<2.0	0.5	<0.5	<1.5	<2.5	--	--
MW-1	11/10/05	98.67	5.28	--	93.39	82	<180 ²	<220 ²	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
MW-1	02/16/06	98.67	5.54	--	93.13	960	660 ²	99 ²	--	<0.5	1.0	4.7	2.3	<2.5	--	--
MW-1	06/23/06	98.67	7.30	--	91.37	580	660 ²	300 ²	--	<0.5	0.6	1.7	<3.0	<10	--	--
MW-1	09/21/06 ⁷	98.67	9.84	--	88.83	130	470 ²	200 ²	--	0.8	0.5	0.3	<3.0	<0.3	--	--
MW-1	06/08/10 ^{7,9,10}	98.67	3.58	--	95.09	280	360 ²	200 ²	--	<0.5	<0.5	<0.5	<1.0	<0.5	--	--
MW-1	09/07/10 ^{7,10}	98.67	7.67	--	91.00	550	470 ²	<69 ²	--	<0.5 ¹¹	<0.5 ¹¹	0.7 ¹¹	0.8 ¹¹	1.8 ¹¹	--	--
MW-1	12/08/10 ^{7,10}	98.67	3.58	--	95.09	620	490 ²	220 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03/07/11 ¹⁰	98.67	3.48	--	95.19	970	650 ²	250 ²	--	<0.5	<0.5	2	<0.5	<0.5	--	--
MW-1	06/30/11 ¹⁰	98.67	7.51	--	91.16	1,000	130 ²	<69 ²	--	<0.5	<0.5	0.9	0.5	<0.5	--	--
MW-1	09/13/11 ¹⁰	98.67	6.85	--	91.82	990	150 ^{2,13}	67 ^{2,13}	--	<0.5	<0.5	1	--	<0.5	1	--
MW-1	12/08/11 ¹⁰	98.67	4.95	--	93.72	640	63 ²	84 ²	--	<0.5	<0.5	<0.5	--	<0.5	--	--
MW-1	03/06/12 ¹	98.67	3.71	--	94.96	1,100	81 ²	100 ²	--	<0.5	<0.5	2	0.7	<0.5	--	--
MW-1	06/06/12 ¹	98.67	5.51	--	93.16	640	120 ²	<68 ²	--	<0.5	<0.5	<0.5	<1	<0.5	--	--
MW-1	09/10/12 ¹	98.67	8.45	--	90.22	1,500	110 ²	<69 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	12/04/12 ¹	98.67	2.54	--	96.13	580	41 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03/12/13 ¹	98.67	4.90	--	93.77	480	50 ²	<70 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	06/12/13 ¹	98.67	6.17	--	92.50	630	33 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	09/10/13 ¹	98.67	7.40	--	91.27	440	40 ²	<70 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	01/18/14 ¹	98.67	4.40	--	94.27	750	51 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03/05/14 ¹	98.67	3.20	--	95.47	880	57 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	05/06/14	98.67	6.78	--	91.89	1,300	74 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	09/16/14	98.67	9.19	--	89.48	310	71 ²	<66 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	10/12/14	98.67	3.30	--	95.37	120	<28 ²	<66 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	09/03/15	147.18	5.84	--	141.34	930	59 ²	<100 ²	--	<0.5	<0.5	0.7	<0.5	<0.5	--	--
MW-1	10/06/15	147.18	7.19	--	139.99	1,300	69 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	09/13/15	147.18	9.38	--	137.80	1,800	58 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	06/12/15	147.18	2.95	--	144.23	2,400	77 ²	<100 ²	--	<0.5	<0.5	1	1	<0.5	--	--
MW-1	09/03/16	147.18	3.20	--	143.98	2,400	50 ²	<100 ²	--	<0.5	<0.5	1	0.8	<0.5	--	--
MW-1	06/15/16	147.18	6.05	--	141.13	860	59 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	07/09/16	147.18	7.55	--	139.63	1,700	66 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	06/12/16	147.18	2.70	--	144.48	1,200	56 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03/14/17	147.18	2.85	--	144.33	2,400	61 ²	<100 ²	--	<0.5	<0.5	0.9	0.6	<0.5	--	--
MW-1	06/15/17	147.18	5.94	--	141.24	350	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	08/09/17	147.18	7.93	--	139.25	3,000	82 ²	<100 ²	--	<0.5	<0.5	<0.5	0.5	<0.5	--	--
MW-1	02/12/17	147.18	3.20	--	143.98	300	<48 ²	<110 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	12/03/18	147.18	4.69	--	142.49	2,100	50 ²	<100 ²	--	<0.5	<0.5	0.9	<0.5	<0.5	--	--
MW-1	06/23/18	147.18	7.71	--	139.47	2,000	48 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	05/09/18	147.18	8.09	--	139.09	2,600	110 ²	<100 ²	--	<0.2	0.2	0.6	0.5	<0.2	--	--
MW-1	02/12/18	147.18	4.40	--	142.78	1,000	<45 ²	<100 ²	--	<0.2	<0.2	0.2	<0.5	<0.2	--	--
MW-1	09/03/19	147.18	4.52	--	142.66	1,200	380 ²	180 J ²	--	<0.2	0.2 J	0.5 J	0.6 J	<0.2	--	--
MW-1	06/08/19 ¹	147.18	5.58	--	141.60	300	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-1	09/10/19 ¹	147.18	6.88	--	140.30	1,800	<46 ²	<100 ²	--	<0.2	<0.2	0.5 J	<0.8	<0.2	--	--
MW-1	11/2/2019 ¹⁵	147.18	7.18	--	140.00	920	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-1	03/09/20	147.18	5.40	--	141.78	1,380	<100	<250	--	<1.00	<1.00	0.838 J	<3.00	<1.00	--	--
MW-1	09/13/20	147.18	8.50	--	138.68	1,560	149	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-1	03/08/21	147.18	4.15	--	143.03	2,560	110	--	<250	<1.00	<1.00	0.599 J	0.585 J	<1.00	3.79 J	<6.00
MW-2	07/09/92 ⁴	99.00	7.39	--	91.61	--	--	--	--	315	39	36	65	--	--	--
MW-2	10/04/00 ⁴	99.00	7.57	--	91.43	--	--	--	--	168	40.1	155	230	ND	--	--
MW-2	03/16/04 ¹	99.00	3.66	--	95.34	9,700	4,700 ²	330 ²	--	130	43	110	120	<0.5	--	--
MW-2	12/02/04 ⁴	99.00	5.61	--	93.39	5,500	3,600	<95	--	190	44	61	130	<0.5	--	--
MW-2	01/28/05 ¹	99.00	3.63	--	95.37	13,000	77,000 ²	<4,800 ²	--	200	37	52	126	<0.5	--	--
MW-2	04/22/05 ¹	99.00	3.43	--	95.57	8,400	72,000 ^{2,3}	12,000 ²	--	81	25	54	115	<0.5	--	--
MW-2	07/29/05 ¹	99.00	8.20	--	90.80	7,300	210,000 ²	<50,000 ²	--	290	57	85	150	<13	--	--
MW-2	11/10/05 ¹	99.00	5.31	--	93.69	4,700	12,000 ^{2,6}	<2,500 ²	--	76	13	22	39	<0.5	--	--
MW-2	02/16/06 ¹	99.00	5.01	--	93.99	5,100	28,000 ²	<4,900 ²	--	350	69	87	208	<0.5	--	--
MW-2	06/23/06 ¹	99.00	7.18	--	91.82	9,800	74,000 ²	<4,900 ²	--	400	89	120	243	<0.5	--	--
MW-2	09/21/06 ⁷	99.00	9.86	--	89.14	9,400	16,000 ²	<2,000 ²	--	370	45	87	78	<1	--	--
MW-2	06/30/11 ¹⁰	99.00	7.85	--	91.15	5,900	150,000 ²	<6,800 ²	--	440	56	60	52	<0.5	--	--
MW-2	09/13/11 ¹⁰	99.00	7.42	0.04	91.61**	LNAPL IN WELL										

Table 1. Groundwater Gauging and Analytical Results
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
MW-2	12/08/11	99.00	4.51	0.02	94.51**	LNAPL IN WELL										
MW-2	03/06/12	99.00	4.07	0.04	94.96**	LNAPL IN WELL										
MW-2	06/06/12 ¹	99.00	6.10	0.02	92.92**	LNAPL IN WELL										
MW-2	09/10/12 ¹	99.00	9.03	0.03	89.99**	LNAPL IN WELL										
MW-2	12/04/12 ¹	99.00	2.99	0.02	96.03**	LNAPL IN WELL										
MW-2	03/12/13 ¹	99.00	4.38	--	94.62	59,000	110,000 ^{2,12}	<7,000 ^{2,12}	--	130	28	28	49	<1 ¹¹	--	--
MW-2	06/12/13 ¹	99.00	6.56	--	92.44	44,000	66,000 ^{2,12}	<6,800 ^{2,12}	--	60	30	48	68	<0.5	--	--
MW-2	09/10/13 ¹	99.00	7.76	sheen	91.24	5,700	160,000 ^{2,12}	3,900 ^{2,12}	--	380	51	53	44	<0.5	--	--
MW-2	01/18/14 ¹	99.00	4.86	--	94.14	15,000	78,000 ^{2,12}	<6,600 ^{2,12}	--	140	28	30	37	<1	--	--
MW-2	03/05/14 ¹⁴	99.00	3.66	--	95.34	LNAPL IN WELL										
MW-2	06/05/14	99.00	7.18	0.02	91.82**	LNAPL IN WELL										
MW-2	09/16/14 ¹	99.00	9.44	--	89.56	16,000	20,000 ^{2,12}	2,100 ^{2,12}	--	410	34	30	20	<0.5	--	--
MW-2	12/10/14 ¹	99.00	3.66	--	95.34	15,000	27,000 ²	<1,300 ²	--	23	6	10	15.6	<0.5	--	--
MW-2	03/09/15 ¹	147.50	6.27	--	141.23	2,600	3,800 ²	<100 ²	--	96	19	19	18	<0.5	--	--
MW-2	06/10/15 ¹	147.50	7.56	--	139.94	7,400	2,300 ²	<100 ²	--	200	49	47	37	<1	--	--
MW-2	09/13/15	147.50	9.76	0.03	137.74**	LNAPL IN WELL										
MW-2	12/06/15 ¹	147.50	3.34	--	144.16	5,600	790 ²	<100 ²	--	110	18	19	16	<1	--	--
MW-2	03/09/16 ¹	147.50	3.60	--	143.90	6,700	16,000 ²	<2,100 ²	--	98	22	22	17	<0.5	--	--
MW-2	06/15/16 ¹	147.50	6.79	--	140.71	7,900	35,000 ²	<10,000 ²	--	200	52	55	30	<0.5	--	--
MW-2	09/07/16 ¹	147.50	8.16	--	139.34	7,400	4,800 ²	<500 ²	--	160	40	48	32	<0.5	--	--
MW-2	12/06/16 ¹	147.50	3.11	sheen	144.39	7,200	2,000 ²	200 ²	--	58	11	12	9.6	<0.5	--	--
MW-2	03/14/17 ¹	147.50	2.86	sheen	144.64	5,000	850 ²	<100 ²	--	78	18	17	10	<1	--	--
MW-2	06/15/17 ¹	147.50	6.89	--	140.61	10,000	3,100 ²	<100 ²	--	16	10	17	15.9	<0.5	--	--
MW-2	09/08/17 ¹	147.50	8.26	sheen	139.24	11,000	5,900 ²	180 ²	--	160	37	46	31	<1	--	--
MW-2	12/02/17 ¹	147.50	3.61	sheen	143.89	9,200	19,000 ²	<1,000 ²	--	45	10	12	8.5	<0.5	--	--
MW-2	03/12/18 ¹	147.50	5.12	sheen	142.38	11,000	7,200 ²	<520 ²	--	75	19	21	12.7	<0.5	--	--
MW-2	06/23/18 ¹	147.50	8.05	sheen	139.45	9,800	14,000 ²	<500 ²	--	160	38	40	26	<0.5	--	--
MW-2	09/05/18 ¹	147.50	8.41	sheen	139.09	14,000	5,400 ²	<100 ²	--	220	41	44	27	<0.2	--	--
MW-2	12/02/18 ¹	147.50	4.83	sheen	142.67	17,000	5,100 ²	<100 ²	--	120	24	27	18	<0.2	--	--
MW-2	03/09/19 ¹	147.50	4.96	--	142.54	6,200	18,000 ²	660 J ²	--	45	7	2	5.5 J	<0.2	--	--
MW-2	06/08/19 ¹	147.50	7.10	0.02	140.42	LNAPL IN WELL										
MW-2	09/10/19 ¹	147.50	7.28	--	140.22	11,000	2,800 ²	<1,000 ²	--	250	35	29	16 J	<0.4	--	--
MW-2	11/2/2019 ¹⁵	147.50	7.69	--	139.81	6,400	3,100	<100	--	190	38	39	21	<0.2	--	--
MW-2	03/09/20	147.50	5.85	--	141.65	599,000	1,250,000	--	<125,000	155	39.4 J	37.4 J	<150	<50.0	--	--
MW-2	09/13/20	147.50	9.67	0.04	137.83	LNAPL IN WELL										
MW-2	03/08/21	147.50	4.98	--	142.52	5,100	1,750	--	<250	61.7	11.2	8.90	4.64 J	<5.00	7.54	3.74 J
MW-3	07/09/92 ⁴	99.10	6.79	--	92.31	--	--	--	--	14	ND	ND	2	--	--	--
MW-3	10/04/00 ⁴	99.10	7.04	--	92.06	--	--	--	--	1.72	ND	ND	ND	ND	--	--
MW-3	03/16/04 ¹	99.10	3.08	--	96.02	200	140 ²	100 ²	--	0.7	<0.5	<0.5	<0.5	2	--	--
MW-3	12/02/04 ⁴	99.10	5.02	--	94.08	200	<75	<94	--	<0.5	<0.5	<0.5	<0.5	2	--	--
MW-3	01/28/05 ¹	99.10	3.21	--	95.89	160	<79 ²	<98 ²	--	<0.5	<0.5	<0.5	<1.0	3	--	--
MW-3	04/22/05 ¹	99.10	2.85	--	96.25	150	400 ²	770 ²	--	<0.5	<0.5	<0.5	<1.0	3	--	--
MW-3	07/29/05 ¹	99.10	7.45	--	91.65	160	380 ^{2,5}	460 ²	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
MW-3	11/10/05	99.10	4.11	--	94.99	250	<180 ²	<220 ²	--	2.8	<1.0	<0.5	<1.5	3.8	--	--
MW-3	02/16/06	99.10	UNABLE TO LOCATE													
MW-3	06/23/06	99.10	UNABLE TO LOCATE													
MW-3	09/21/06	99.10	UNABLE TO LOCATE													
MW-3	06/08/10 ^{7,9,10}	99.10	2.71	--	96.39	530	910 ²	1,000 ²	--	12	1.1	<0.5	<1.0	0.6	--	--
MW-3	09/07/10 ^{7,10}	99.10	6.78	--	92.32	620	580 ²	280 ²	--	9 ¹¹	1.2 ¹¹	<0.5 ¹¹	<1.5 ¹¹	0.7 ¹¹	--	--
MW-3	12/08/10	99.10	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY													
MW-3	03/07/11	99.10	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY													
MW-3	06/30/11 ¹⁰	99.10	7.85	--	91.25	230	57 ²	<67 ²	--	0.6	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/13/11 ¹⁰	99.10	7.65	--	91.45	400	40 ^{2,13}	<66 ^{2,13}	--	<0.5	<0.5	<0.5	--	<0.5	--	--
MW-3	12/08/11	99.10	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY													
MW-3	03/06/12 ¹	99.10	5.21	--	93.89	480	<28 ²	80 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/06/12 ¹	99.10	6.26	--	92.84	<50	30 ²	84 ²	--	<0.5	<0.5	<0.5	<1	<0.5	--	--
MW-3	09/10/12 ¹	99.10	9.17	--	89.93	460	37 ²	<68 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	12/04/12 ¹	99.10	3.23	--	95.87	140	<29 ²	<68 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	03/12/13 ¹	99.10	5.49	--	93.61	140	<30 ²	<70 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/12/13 ¹	99.10	6.58	--	92.52	<50	<28 ²	<66 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/10/13 ¹	99.10	7.81	--	91.29	98	<30 ²	<70 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	01/18/14 ¹	99.10	5.05	--	94.05	520	<300 ²	<700 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	03/05/14 ¹	99.10	3.90	--	95.20	560	<30 ²	<70 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/05/14 ¹	99.10	7.17	--	91.93	<50	<28 ²	<66 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/16/14 ¹	99.10	9.46	--	89.64	440	<29 ²	<67 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	12/10/14 ¹	99.10	3.90	--	95.20	210	<29 ²	<68 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

Table 1. Groundwater Gauging and Analytical Results
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
MW-3	03/09/15 ¹	147.63	6.48	--	141.15	300	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/10/15 ¹	147.63	7.71	--	139.92	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/13/15 ¹	147.63	9.78	--	137.85	120	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	12/06/15 ¹	147.63	3.55	--	144.08	160	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	03/09/16 ¹	147.63	3.75	--	143.88	810	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/15/16 ¹	147.63	7.02	--	140.61	56	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/07/16 ¹	147.63	8.49	--	139.14	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	12/06/16 ¹	147.63	3.28	--	144.35	60	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	03/14/17 ¹	147.63	3.44	--	144.19	810	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/15/17 ¹	147.63	6.79	--	140.84	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/08/17 ¹	147.63	8.20	--	139.43	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	12/02/17 ¹	147.63	3.83	--	143.80	200	<48 ²	<110 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	03/12/18 ¹	147.63	5.30	--	142.33	760	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	06/23/18 ¹	147.63	8.10	--	139.53	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-3	09/05/18 ¹	147.63	8.50	--	139.13	57	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-3	12/02/18 ¹	147.63	5.05	--	142.58	170	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-3	03/09/19 ¹	147.63	5.14	--	142.49	170 J	510 ²	860 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-3	06/08/19 ¹	147.63	6.71	--	140.92	<19	<46 ²	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-3	09/10/19 ¹	147.63	7.43	--	140.20	510	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-3	11/2/2019 ¹⁵	147.63	7.74	--	139.89	50 J	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-3	03/09/20	147.63	6.68	--	140.95	878	<100	<250	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-3	09/13/20	147.63	9.77	--	137.86	83.4 J	49.6 J	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-3	03/08/21	147.63	5.60	--	142.03	2,000	57.4 J	--	<250	0.218 J	<1.00	<1.00	<3.00	<1.00	6.38	<6.00
MW-4	07/09/92 ⁴	99.57	7.18	--	92.39	--	--	--	--	ND	ND	ND	ND	ND	--	--
MW-4	03/16/04	99.57	UNABLE TO LOCATE													
MW-4	01/28/05	99.57	UNABLE TO LOCATE													
MW-4	04/22/05	99.57	UNABLE TO LOCATE													
MW-4	07/29/05	99.57	UNABLE TO LOCATE													
MW-4	11/10/05	99.57	UNABLE TO LOCATE - AREA COVERED BY A ROCK PARKING LOT													
MW-4	02/16/06	99.57	UNABLE TO LOCATE													
MW-4	06/23/06	99.57	UNABLE TO LOCATE													
MW-4	09/21/06	99.57	UNABLE TO LOCATE													
MW-4	12/04/12	99.57	UNABLE TO LOCATE													
MW-4A	02/12/15 ¹	148.11	4.30	--	143.81	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	03/09/15 ¹	148.11	6.96	--	141.15	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	06/10/15 ¹	148.11	8.04	--	140.07	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	09/13/15 ¹	148.11	10.36	--	137.75	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	12/06/15	148.11	UNABLE TO ACCESS													
MW-4A	03/09/16 ¹	148.11	3.06	--	145.05	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	06/15/16 ¹	148.11	5.71	--	142.40	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	09/07/16 ¹	148.11	6.40	--	141.71	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	12/06/16 ¹	148.11	2.40	--	145.71	<50	47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	03/14/17 ¹	148.11	3.05	--	145.06	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	06/15/17 ¹	148.11	6.52	--	141.59	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	09/08/17 ¹	148.11	8.42	--	139.69	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	12/02/17 ¹	148.11	2.91	--	145.20	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	03/12/18 ¹	148.11	4.84	--	143.27	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	06/23/18 ¹	148.11	8.51	--	139.60	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4A	09/05/18 ¹	148.11	8.82	--	139.29	<19	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-4A	12/02/18 ¹	148.11	3.96	--	144.15	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-4A	03/09/19 ¹	148.11	4.54	--	143.57	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-4A	06/08/19 ¹	148.11	7.36	--	140.75	<19	75 J ²	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-4A	09/10/19 ¹	148.11	7.13	--	140.98	<19	<47 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-4A	11/2/2019 ¹⁵	148.11	7.87	--	140.24	<19	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-4A	03/09/20	148.11	5.60	--	142.51	<100	<100	<250	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-4A	09/13/20	148.11	10.29	--	137.82	<100	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-4A	03/08/21	148.11	4.35	--	143.76	62.1 B J	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	5.17 J	<6.00
MW-5	07/09/92 ⁴	97.62	7.24	--	90.38	--	--	--	--	211	5	7	5	--	--	--
MW-5	10/04/00 ⁴	97.62	7.33	--	90.29	--	--	--	--	35.5	1.69	ND	ND	ND	--	--
MW-5	03/16/04	97.62	UNABLE TO LOCATE													
MW-5	01/28/05	97.62	UNABLE TO LOCATE													
MW-5	04/22/05	97.62	UNABLE TO LOCATE													
MW-5	07/29/05	97.62	UNABLE TO LOCATE													
MW-5	11/10/05	97.62	UNABLE TO LOCATE - AREA COVERED BY A ROCK PARKING LOT													

Table 1. Groundwater Gauging and Analytical Results
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
MW-5	02/16/06	97.62	UNABLE TO LOCATE													
MW-5	06/23/06	97.62	6.19	--	91.43	930	3,400 ²	1,900 ²	--	36	2.8	<1.0	3.2	<20	--	--
MW-5	09/21/06	97.62	8.35	--	89.27	1,500	2,800 ²	740 ²	--	47	4.3	2.9	6.3	<25	--	--
MW-5	06/08/10 ^{7,9,10}	97.62	2.90	--	94.72	2,000	2,900 ^{2,8}	1,400 ^{2,8}	--	53	3.1	0.6	0.6	<0.5	--	--
MW-5	09/07/10 ^{7,10}	97.62	6.38	--	91.24	2,200	1,300 ²	330 ²	--	23 ¹¹	4.1 ¹¹	<0.5 ¹¹	<7.5 ¹¹	<0.5 ¹¹	--	--
MW-5	12/08/10 ^{7,10}	97.62	2.95	--	94.67	1,800	600 ²	660 ²	--	17	1	<0.5	2.8	<0.5	--	--
MW-5	03/07/11 ¹⁰	97.62	2.80	--	94.82	1,500	640 ²	850 ²	--	7	1	<0.5	1.7	<0.5	--	--
MW-5	06/30/11 ¹⁰	97.62	6.31	--	91.31	1,800	69 ²	<68 ²	--	4	0.8	<0.5	1.6	<0.5	--	--
MW-5	09/13/11 ¹⁰	97.62	5.87	--	91.75	2,400	39 ^{2,13}	<66 ^{2,13}	--	20	1	<0.5	--	<0.5	--	--
MW-5	12/08/11 ¹⁰	97.62	4.28	--	93.34	1,200	38 ²	<68 ²	--	4	0.7	<0.5	--	<0.5	--	--
MW-5	03/06/12 ¹	97.62	2.98	--	94.64	2,300	37 ²	<67 ²	--	3	0.8	<0.5	1.6	<0.5	--	--
MW-5	06/06/12 ¹	97.62	4.49	--	93.13	2,300	57 ²	<68 ²	--	1	<0.5	<0.5	0.8	<0.5	--	--
MW-5	09/10/12 ¹	97.62	7.31	--	90.31	2,200	54 ²	<69 ²	--	2	0.5	<0.5	<0.5	<0.5	--	--
MW-5	12/04/12 ¹	97.62	2.42	--	95.20	1,800	35 ²	<68 ²	--	54	1	0.7	0.9	<0.5	--	--
MW-5	03/12/13 ¹	97.62	4.02	--	93.60	2,200	41 ²	<71 ²	--	1	<1 ¹¹	<1 ¹¹	<1 ¹¹	<1 ¹¹	--	--
MW-5	06/12/13 ¹	97.62	5.02	--	92.60	2,300	54 ²	<67 ²	--	<0.5	<0.5	<0.5	0.7	<0.5	--	--
MW-5	09/10/13 ¹	97.62	6.22	--	91.40	860	<30 ²	<69 ²	--	<0.5	<0.5	<0.5	0.6	<0.5	--	--
MW-5	01/18/14 ¹	97.62	3.62	--	94.00	2,200	<150 ²	<350 ²	--	3	<0.5	<0.5	0.9	<0.5	--	--
MW-5	03/05/14 ¹	97.62	2.54	--	95.08	99	<30 ²	<71 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-5	06/05/14 ¹	97.62	5.70	--	91.92	2,500	35 ²	<67 ²	--	6	<1	<1	<1	<1	--	--
MW-5	09/16/14 ¹	97.62	7.86	--	89.76	2,700	<29 ²	<68 ²	--	2	<0.5	<0.5	0.9	<0.5	--	--
MW-5	12/10/14 ¹	97.62	2.58	--	95.04	1,400	31 ²	<67 ²	--	<1	<1	<1	<1	<1	--	--
MW-5	03/09/15 ¹	146.13	4.81	--	141.32	1,500	<46 ²	<100 ²	--	1	<0.5	<0.5	0.6	<0.5	--	--
MW-5	06/10/15 ¹	146.13	5.93	--	140.20	2,300	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-5	09/13/15 ¹	146.13	8.04	--	138.09	2,700	<45 ²	<100 ²	--	<0.5	<0.5	0.6	0.8	<0.5	--	--
MW-5	12/06/15 ¹	146.13	2.33	--	143.80	2,900	<45 ²	<100 ²	--	0.8	<0.5	<0.5	0.8	<0.5	--	--
MW-5	03/09/16 ¹	146.13	2.56	--	143.57	2,900	<46 ²	<100 ²	--	<1	<1	<1	<1	<1	--	--
MW-5	06/15/16 ¹	146.13	4.95	--	141.18	2,800	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-5	09/07/16 ¹	146.13	6.38	--	139.75	2,200	<45 ²	<100 ²	--	0.6	<0.5	0.5	0.8	<0.5	--	--
MW-5	12/06/16 ¹	146.13	1.88	--	144.25	3,300	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	0.5	<0.5	--	--
MW-5	03/14/17 ¹	146.13	2.08	--	144.05	1,000	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-5	06/15/17 ¹	146.13	4.89	--	141.24	1,900	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-5	09/08/17 ¹	146.13	6.53	--	139.60	2,600	54 ²	<100 ²	--	<0.5	<0.5	<0.5	0.6	<0.5	--	--
MW-5	12/02/17 ¹	146.13	2.47	--	143.66	2,600	<46 ²	<100 ²	--	<3	<3	<3	<3	<3	--	--
MW-5	03/12/18 ¹	146.13	3.70	--	142.43	3,500	<46 ²	<100 ²	--	<1	<1	<1	<1	<1	--	--
MW-5	06/23/18 ¹	146.13	6.43	--	139.70	4,000	<45 ²	<100 ²	--	<1	<1	<1	<1	<1	--	--
MW-5	09/05/18 ¹	146.13	6.69	--	139.44	3,200	<46 ²	<100 ²	--	0.4	<0.2	<0.2	<0.5	<0.2	--	--
MW-5	12/02/18 ¹	146.13	3.54	--	142.59	1,800	<46 ²	<100 ²	--	0.3	0.2	0.3	<0.5	<0.2	--	--
MW-5	03/09/19 ¹	146.13	5.55	--	140.58	1,100	120 ²	<100 ²	--	0.4 J	<0.2	<0.2	<0.8	<0.2	--	--
MW-5	06/08/19 ¹	146.13	5.38	--	140.75	2,100	140 ²	<100 ²	--	0.3 J	<0.2	0.3 J	<0.8	<0.2	--	--
MW-5	09/10/19 ¹	146.13	5.64	--	140.49	2,500	<46 ²	<100 ²	--	<1	<1	<1	<5	<1	--	--
MW-5	11/2/2019 ¹⁵	146.13	5.99	--	140.14	2,200	<45	<100	--	0.4 J	<0.4	<0.4	<1.6	<0.4	--	--
MW-5	03/09/20	146.13	4.32	--	141.81	2800	<100	<250	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-5	09/13/20	146.13	8.14	--	137.99	7,740	<100	--	<250	<1.00	<1.00	<1.00	0.256 J	<1.00	--	--
MW-5	03/08/21	146.13	3.31	--	142.82	7,550	58.1 J	--	<250	1.94	0.346 J	<1.00	0.509 J	<1.00	<6.00	<6.00
MW-6	02/12/15 ¹	147.87	3.84	--	144.03	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	03/09/15 ¹	147.87	6.18	--	141.69	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	06/10/15 ¹	147.87	7.71	--	140.16	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	09/13/15 ¹	147.87	7.08	--	140.79	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	12/06/15 ¹	147.87	2.87	--	145.00	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	03/09/16 ¹	147.87	3.31	--	144.56	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	06/15/16 ¹	147.87	5.32	--	142.55	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	09/07/16 ¹	147.87	5.51	--	142.36	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	12/06/16 ¹	147.87	2.69	--	145.18	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	03/14/17 ¹	147.87	3.14	--	144.73	<50	<47 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	06/15/17 ¹	147.87	5.90	--	141.97	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	09/08/17 ¹	147.87	8.32	--	139.55	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	12/02/17 ¹	147.87	3.41	--	144.46	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	03/12/18 ¹	147.87	4.72	--	143.15	<50	<46 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	06/23/18 ¹	147.87	7.84	--	140.03	<50	<45 ²	<100 ²	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-6	09/05/18 ¹	147.87	8.53	--	139.34	<19	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-6	12/02/18 ¹	147.87	4.37	--	143.50	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-6	03/09/19 ¹	147.87	4.29	--	143.58	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-6	06/08/19 ¹	147.87	6.64	--	141.23	<19	<46	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-6	09/10/19 ¹	147.87	5.05	--	142.82	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-6	11/2/2019 ¹⁵	147.87	7.46	--	140.41	<19	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--

Table 1. Groundwater Gauging and Analytical Results
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
MW-6	03/09/20	147.87	5.19	--	142.68	<100	<100	<250	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-6	09/13/20	147.87	9.99	--	137.88	<100	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-6	03/08/21	147.87	4.30	--	143.57	33.7 B J	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	<6.00	<6.00
MW-7	02/12/15 ¹	147.02	2.96	--	144.06	1,900	840 ²	<110 ²	--	41	3	7	1	<0.5	--	--
MW-7	03/09/15 ¹	147.02	5.71	--	141.31	3,300	330 ²	<100 ²	--	110	8	33	5	<0.5	--	--
MW-7	06/10/15 ¹	147.02	6.86	--	140.16	4,300	240 ²	<100 ²	--	110	10	42	6	<1	--	--
MW-7	09/13/15 ¹	147.02	8.90	--	138.12	5,300	580 ²	<100 ²	--	100	13	50	8	<0.5	--	--
MW-7	12/06/15 ¹	147.02	3.23	--	143.79	27,000	22,000 ²	1,100 ²	--	58	4	13	3	<1	--	--
MW-7	03/09/16 ¹	147.02	3.40	--	143.62	6,600	6,000 ²	360 ²	--	61	4	15	3	<0.5	--	--
MW-7	06/15/16 ¹	147.02	5.43	--	141.59	7,900	7,500 ²	<1,000 ²	--	62	30	6	5	<0.5	--	--
MW-7	09/07/16 ¹	147.02	6.83	0.08	140.25**	LNAPL IN WELL										
MW-7	12/06/16 ¹	147.02	2.74	sheen	144.28	5,300	4,900 ²	930 ²	--	43	4	10	2	<0.5	--	--
MW-7	03/14/17 ¹	147.02	2.89	sheen	144.13	6,000	22,000 ²	3,500 ²	--	49	4	12	2	<0.5	--	--
MW-7	06/15/17 ¹	147.02	5.64	--	141.38	6,200	7,600 ²	1,500 ²	--	38	5	23	4	<0.5	--	--
MW-7	09/08/17 ¹	147.02	7.16	0.05	139.90**	LNAPL IN WELL										
MW-7	12/02/17 ¹	147.02	3.33	--	143.69	9,800	13,000 ²	2,100 ²	--	40	4	9	2	<0.5	--	--
MW-7	03/12/18 ¹	147.02	4.56	--	142.46	26,000	520,000 ²	75,000 ²	--	25	3	19	3	<1	--	--
MW-7	06/23/18 ¹	147.02	7.28	0.02	139.76**	LNAPL IN WELL										
MW-7	09/05/18 ¹	147.02	7.37	sheen	139.65	8,000	10,000 ²	1,500 ²	--	27	5	33	4.4	<0.2	--	--
MW-7	12/02/18 ¹	147.02	4.47	sheen	142.55	9,100	6,000 ²	1,200 ²	--	29	4	19	3.3	<0.2	--	--
MW-7	03/09/19 ¹	147.02	4.40	--	142.62	17,000	57,000 ²	7,400 ²	--	32	4	11	2.3 J	<0.2	--	--
MW-7	06/08/19 ¹	147.02	6.20	0.02	140.84**	LNAPL IN WELL										
MW-7	09/10/19 ¹	147.02	6.22	0.02	140.82**	LNAPL IN WELL										
MW-7	11/2/2019 ¹⁵	147.02	6.74	--	140.28	7,100	230	<100	--	27	4	26	3.4	<0.2	--	--
MW-7	03/09/20	147.02	5.05	--	141.97	65,900	17,400	3,840	--	24.2	6.98 J	30.0	<30.0	<10.0	--	--
MW-7	09/13/20	147.02	8.99	0.02	138.03	LNAPL IN WELL										
MW-7	03/08/21	147.02	4.15	--	142.87	4,060	1,670	--	159 J	18.1	2.98 J	5.09 J	1.87 J	<10.0	8.48	3.49 J
MW-8	12/02/18 ¹	147.39	5.24	--	142.15	<19	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
MW-8	03/09/19 ¹	147.39	4.44	--	142.95	<19	<46 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-8	06/08/19 ¹	147.39	6.20	--	141.19	<19	<45 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-8	09/10/19 ¹	147.39	6.85	--	140.54	<19	<47 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-8	11/2/2019 ¹⁵	147.39	7.49	--	139.90	<19	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-8	03/09/20	147.39	4.90	--	142.49	<100	<100	124 J	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-8	09/13/20	147.39	9.77	--	137.62	<100	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-8	03/08/21	147.39	3.82	--	143.57	58.8 B J	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	<6.00	<6.00
MW-9	09/10/19 ¹	147.48	5.05	--	142.43	<19	<47 ²	<100 ²	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-9	11/2/2019 ¹⁵	147.48	6.53	--	140.95	<19	<45	<100	--	<0.2	<0.2	<0.2	<0.8	<0.2	--	--
MW-9	03/09/20	147.48	4.32	--	143.16	<100	<100	122 J	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-9	09/13/20	147.48	8.24	--	139.24	<100	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
MW-9	03/08/21	147.48	2.20	--	145.28	<100	<100	--	<250	<1.00	<1.00	<1.00	<3.00	<1.00	4.56 J	<6.00
QA-TB	03/16/04 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	01/28/05	--	--	--	--	<48	--	--	--	--	--	--	--	--	--	--
QA-TB	04/22/05	--	--	--	--	<48	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	--
QA-TB	07/29/05	--	--	--	--	<48	--	--	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
QA-TB	11/10/05	--	--	--	--	<48	--	--	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
QA-TB	02/16/06	--	--	--	--	<48	--	--	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
QA-TB	06/23/06	--	--	--	--	<48	--	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
QA-TB	09/21/06	--	--	--	--	<48	--	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
QA-TB	06/08/10	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
QA-TB	09/07/10	--	--	--	--	<50	--	--	--	--	<0.5	--	<1.5	--	--	--
QA-TB	12/08/10 ¹⁰	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/07/11 ¹⁰	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/30/11 ¹⁰	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/13/11 ¹⁰	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/08/11 ¹⁰	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/06/12 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/06/12 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/10/12 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/04/12 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/12/13 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/12/13 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/10/13 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	01/18/14 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

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Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
QA-TB	03/05/14 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/05/14 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/16/14 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/10/14 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/09/15 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/10/15 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/13/15 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/06/15 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/09/16 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/15/16 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/07/16 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/06/16 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/14/17 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/15/17 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/08/17 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	12/02/17 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	03/12/18 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/23/18 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/05/18 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	06/23/18 ¹	--	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
QA-TB	09/05/18 ¹	--	--	--	--	<19	--	--	--	<0.2	<0.2	<0.2	<0.5	<0.2	--	--
QA-TB	12/02/18 ¹	--	--	--	--	<19	--	--	--	<0.2	<0.2	<0.2	--	<0.2	--	--
QA-TB	11/2/2019 ¹⁵	--	--	--	--	<19	--	--	--	<0.2	<0.2	<0.2	--	<0.2	--	--
QA-TB	03/09/20	--	--	--	--	<100	--	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
QA-TB	09/13/20	--	--	--	--	<100	--	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	--	--
QA-TB	03/08/21	--	--	--	--	50.6 B J	--	--	--	<1.00	<1.00	<1.00	<3.00	--	--	--
RBCs: Volatilization to Outdoor Air																
Residential						>S	>S	NA	NA	3,100	>S	9,900	>S	350,000	NV	NV
Occupational						>S	>S	NA	NA	14,000	>S	43,000	>S	1,500,000	NV	NV
RBCs: Vapor Intrusion Into Buildings																
Residential						22,000	>S	NA	NA	210	>S	620	86,000	67,000	NV	NV
Occupational						>S	>S	NA	NA	2,800	>S	8,200	>S	870,000	NV	NV
RBCs: Groundwater in Excavation																
Construction and Excavation Worker						14,000	>S	NA	NA	1,800	220,000	4,500	23,000	63,000	>S	>S

EXPLANATIONS:

Concentrations reported in µg/L
Results in bold indicate analyte detected above one or more generic RBCs
RBCs are based on values presented in Appendix A of the Oregon DEQ's Risk-Based Decision Making for the Remediation of Petroleum Contaminated Sites (Oregon DEQ, 2003; updated May 2018).
All concentrations are in micrograms per Liter

DEQ = Department of Environmental Quality
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
DTW = Depth to Water
ft. = Feet
µg/L = Micrograms per liter
GWE = Groundwater Elevation
LCS/LCSD = Laboratory control sample/laboratory control sample duplicate
MDL = Method Detection Limit
MTBE = Methyl tertiary butyl ether
NA = A generic RBC has not been established
ND = Not Detected
RBCs = Risk-Based Concentrations
QA = Quality Assurance/Trip Blank
QC = Quality Control
<1.00 = Not Detected at or above the reported detection limit (RDL)
B = The same analyte is found in the associated blank
J = Estimated value between the method detection limit (MDL) and RDL
-- = Not Measured/Not Analyzed

>S = The groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.
LNAPL = Light Non-Aqueous Phase Liquid
TOC = Top of Casing
TPH = Total Petroleum Hydrocarbons
As of January 2020, the laboratory for this site was changed from Eurofins Calscience to Pace Analytical second quarter 2020 groundwater monitoring event.
Pace Analytical reports the following carbon ranges: TPH-g as C5-C12, TPH-d as C12-C22
TPH-G = Total Petroleum Hydrocarbons as gasoline range analyzed by GC by Northwest Method NWTPH-Gx
TPH-D = Total Petroleum Hydrocarbons as Diesel Range analyzed by Method NWTPHDX-SGT
TPH-O = Total Petroleum Hydrocarbons as Oil range organics analyzed by Method NWTPHDX-SGT
TPH-R = Total Petroleum Hydrocarbons as Residual range organics analyzed by Method NWTPGDY-SGT
BTEX (Benzene, Toluene, Ethylbenzene, Total Xylenes) Analyzed by United States Environmental Protection Agency (USEPA) Method 8260D
MTBE = Methyl tert-butyl ether Analyzed by USEPA Method 8260D

Well ID	Date	TOC* (ft.)	DTW (ft.)	LNAPL (ft.)	GWE (ft.)	TPH-G	TPH-D	TPH-O	TPH-R	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Lead	Dissolved Lead
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- NOTES:**
- * TOC elevations are expressed in feet relative to an arbitrary datum. TOC elevations were surveyed on February 18, 2015 to Yamhill County Benchmark No. 32, Elev. = 147.50
 - ** GWE has been corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].
 - 1 BTEX and MTBE by USEPA Method 8260.
 - 2 Analyzed with silica-gel cleanup.
 - 3 Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.
 - 4 Data provided by Secor International.
 - 5 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
 - 6 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes earlier in the DRO range.
 - 7 Tubing in well.
 - 8 Laboratory report indicates the surrogate data is outside the QC limits for the first extraction. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. The DRO result for the first extraction is 600 µg/L, the HRO result for the first extraction is 520 µg/L. The reextracted data is reported as per client request.
 - 9 Well re-development preformed.
 - 10 BTEX and MTBE run by USEPA Method 8021B and 8260B. Where analyte is detected, the highest result is reported. Please refer to lab reports for additional data.
 - 11 Laboratory report indicates due to the presence of an sample matrix interference, the reporting limit was raised.
 - 12 Laboratory report indicates that due to dilution necessary to bring target analytes into the calibration range of the analytical system, recovery for the reverse surrogate, capric acid, could not be determined.
 - 12 Laboratory report indicates that capric acid recovery could not be determined.
 - 13 The surrogate data is outside of QC limits in the blank, LCS and LCSD associated with this sample. The surrogate data is also outside QC limits in this sample. The LCS/LCSD recoveries for DRO are outside of QC limits. Surrogate and spike results from the reextraction are within QC limits. The hold time had expired prior to reextraction so all results reported are from the original extract. Similar results were observed between the two extractions.
 - 14 LNAPL in well following purging.
 - 15 BTEX and MTBE USEPA Method 8260B.

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-1	01/28/05	<0.5	<0.5	2	1	<1	<1	<1	<0.5
MW-1	04/22/05	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	06/08/10	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-1	09/07/10	<0.5	<0.5	2	2	<1	<1	<1	<10
MW-1	12/08/10	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	03/07/11	<0.5	<0.5	4	<1	<1	<1	<1	<0.5
MW-1	06/30/11	<0.5	<0.5	6	6	<1	<1	<1	<0.5
MW-1	09/13/11	<0.5	<0.5	3	3	<1	<1	<1	<0.5
MW-1	12/08/11	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	03/06/12	<0.5	<0.5	3	2	<1	<1	<1	<0.5
MW-1	06/06/12	<0.5	<0.5	4	4	<1	<1	<1	<0.5
MW-1	09/10/12	<0.5	<0.5	3	1	1	<1	<1	<0.5
MW-1	12/04/12	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-1	03/12/13	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-1	06/12/13	<0.5	<0.5	3	3	<1	<1	<1	<0.5
MW-1	09/10/13	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	01/18/14	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	03/05/14	<0.5	<0.5	1	1	<1	<1	<1	<0.5
MW-1	06/05/14	<0.5	<0.5	5	5	<1	<1	<1	<0.5
MW-1	09/16/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	12/10/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	03/09/15	<0.5	<0.5	3	2	<1	<1	<1	<0.5
MW-1	06/10/15	<0.5	<0.5	4	3	<1	<1	<1	<0.5
MW-1	09/13/15	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	12/06/15	<0.5	<0.5	5	3	<1	<1	<1	<0.5
MW-1	03/09/16	<0.5	<0.5	4	3	<1	<1	<1	<0.5
MW-1	06/15/16	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	09/07/16	<0.5	<0.5	5	2	<1	<1	<1	<0.5
MW-1	12/06/16	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-1	03/14/17	<0.5	<0.5	5	4	<1	<1	<1	<0.5
MW-1	06/15/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	09/08/17	<0.5	<0.5	6	3	<1	<1	1	<0.5
MW-1	12/02/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	03/12/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-1	06/23/18	<0.5	<0.5	5	4	<1	<1	<1	<0.5
MW-1	09/05/18	<2	<0.3	5	4	<0.3	<0.3	<4	<0.2
MW-1	12/02/18	<2	<0.3	2	0.5	<0.3	<0.3	<4	<0.2
MW-1	03/09/19	<2	<0.3	1 J	0.6 J	<0.3	<0.3	<4	<0.2
MW-1	06/08/19	<2	<0.3	2 J	2 J	<0.3	<0.3	<4	<0.2
MW-1	09/10/19	<2	<0.3	3 J	3 J	<0.3	<0.3	<4	<0.2
MW-1	11/02/19	<2	<0.3	5	5	0.7 J	<0.3	<4	<0.2
MW-1	03/09/20	<1.00	<1.00	4.24	1.88	<1.00	<1.00	<5.00 J0	<1.00
MW-1	09/13/20	<1.00	<1.00	3.19	1.75	<1.00	<1.00	<5.00	<1.00
MW-1	03/08/21	<1.00	<1.00	3.49	2.39	<1.00	<1.00	<5.00	<1.00
MW-2	01/28/05	<0.5	<0.5	48	48	68	120	3	<0.5
MW-2	04/22/05	<0.5	<0.5	48	44	4	78	2	<0.5
MW-2	11/10/05	<0.5	<0.5	20	26	2	35	4	<0.5
MW-2	02/16/05	<0.5	<0.5	69	71	6	160	3	<0.5
MW-2	06/23/06	<0.5	<0.5	80	68	5	95	2	<0.5
MW-2	09/21/06	<1	<1	97	88	7	57	11	<1
MW-2	06/30/11	<0.5	<0.5	72	72	4	9	4	<0.5

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-2	09/13/11	LNAPL IN WELL							
MW-2	12/08/11	LNAPL IN WELL							
MW-2	03/06/12	LNAPL IN WELL							
MW-2	06/06/12	LNAPL IN WELL							
MW-2	09/10/12	LNAPL IN WELL							
MW-2	12/04/12	LNAPL IN WELL							
MW-2	03/12/13	<1	<1	53	71	6	32	<2	<1
MW-2	06/12/13	<0.5	<0.5	89	120	8	29	2	<0.5
MW-2	09/10/13	<0.5	<0.5	62	71	4	7	<1	<0.5
MW-2	01/18/14	4	<1	57	71	4	13	<2	<1
MW-2	03/05/14	LNAPL IN WELL							
MW-2	06/05/14	LNAPL IN WELL							
MW-2	09/16/14	<0.5	<0.5	53	57	1	1	<1	<0.5
MW-2	12/10/14	<0.5	<0.5	41	62	3	18	<1	<0.5
MW-2	03/09/15	<0.5	<0.5	39	45	10	2	<1	<0.5
MW-2	06/10/15	<1	<1	55	62	4	2	<2	<1
MW-2	09/13/15	LNAPL IN WELL							
MW-2	12/06/15	<1	<1	44	52	<2	3	<2	<1
MW-2	03/09/16	<0.5	<0.5	50	59	2	3	<1	<0.5
MW-2	06/15/16	<0.5	<0.5	64	76	2	2	<1	<0.5
MW-2	09/07/16	<0.5	<0.5	75	88	2	2	<1	<0.5
MW-2	12/06/16	<0.5	<0.5	43	58	1	2	<1	<0.5
MW-2	03/14/17	<0.5	<0.5	40	47	<1	2	<2	<1
MW-2	06/15/17	<0.5	0.5	59	72	2	2	1	<0.5
MW-2	09/08/17	<1	<1	70	86	2	<2	<2	<1
MW-2	12/02/17	<0.5	<0.5	53	71	1	2	1	<0.5
MW-2	03/12/18	<0.5	<0.5	75	64	1	3	<1	<0.5
MW-2	06/23/18	<0.5	<0.5	68	84	2	1	<1	<0.5
MW-2	09/05/18	<2	<0.3	77	96	2	0.7	<4	<0.2
MW-2	12/02/18	<2	<0.3	67	86	1	0.9	<4	<0.2
MW-2	03/09/19	<2	<0.3	9	13	1 J	3 J	<4	<0.2
MW-2	09/10/19	<4	<0.6	65	83	1 J	1 J	<8	<0.4
MW-2	11/02/19	<2	<0.3	79	96	19	0.7 J	<4	<0.2
MW-2	03/09/20	<50.0	<50.0	134	222	<50.0	<50.0	<250	<50.0
MW-2	09/13/20	LNAPL IN WELL							
MW-2	03/08/21	<5.00	<5.00	32.3	44.7	<5.00	<5.00	<25.0	<5.00
MW-3	01/28/05	<0.5	<0.5	<1	<1	<1	<1	<1	3
MW-3	04/22/05	<0.5	<0.5	<1	<1	<1	<1	<1	3
MW-3	06/08/10	<0.5	<0.5	2	<1	<1	<1	<1	0.6
MW-3	09/07/10	<0.5	<0.5	2	<1	<1	<1	<1	<10
MW-3	12/08/10	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY							
MW-3	03/07/11	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY							
MW-3	06/30/11	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/13/11	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/08/11	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY							
MW-3	03/06/12	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	06/06/12	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/10/12	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/04/12	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	03/12/13	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	06/12/13	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-3	09/10/13	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	01/18/14	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-3	03/05/14	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-3	06/05/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/16/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/10/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	03/09/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	06/10/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/13/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/06/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	03/09/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	06/15/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/07/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/06/16	<0.5	<0.5	<1	<1	<1	<1	1	<0.5
MW-3	03/14/17	<0.5	<0.5	1	<1	<1	<1	<1	<0.5
MW-3	06/15/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/08/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	12/02/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	03/12/18	<0.5	<0.5	1	<1	<1	<1	1	<0.5
MW-3	06/23/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-3	09/05/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-3	12/02/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-3	03/09/19	<2	<0.3	0.3 J	<0.2	<0.3	<0.3	<4	<0.2
MW-3	06/08/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-3	09/10/19	<2	<0.3	0.6 J	<0.2	<0.3	<0.3	<4	<0.2
MW-3	11/02/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-3	03/09/20	<1.00	<1.00	2.05	0.414 J	<1.00	<1.00	<5.00 J0	<1.00
MW-3	09/13/20	<1.00	<1.00	0.150 J	<1.00	<1.00	<1.00	<5.00	<1.00
MW-3	03/08/21	<1.00	<1.00	2.21	0.570 J	<1.00	<1.00	<5.00	<1.00
MW-4	03/16/04	UNABLE TO LOCATE							
MW-4	01/28/05	UNABLE TO LOCATE							
MW-4	04/22/05	UNABLE TO LOCATE							
MW-4A	02/12/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	03/09/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	06/10/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	09/13/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	12/06/15	--	--	--	--	--	--	--	--
MW-4A	03/09/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	06/15/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	09/07/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	12/06/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	03/14/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	06/15/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	09/08/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	12/02/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	03/12/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	06/23/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-4A	09/05/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-4A	12/02/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-4A	03/09/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-4A	06/08/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-4A	09/10/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-4A	11/02/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-4A	03/09/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00 J0	<1.00
MW-4A	09/13/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-4A	03/08/21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-5	01/28/05	UNABLE TO LOCATE							
MW-5	04/22/05	UNABLE TO LOCATE							
MW-5	06/08/10	<0.5	<0.5	10	3	<1	<1	<1	<0.5
MW-5	09/07/10	<0.5	<0.5	7	2	<1	<1	<1	<50
MW-5	12/08/10	<0.5	<0.5	7	2	<1	<1	<1	<0.5
MW-5	03/07/11	<0.5	<0.5	6	1	<1	<1	<1	<0.5
MW-5	06/30/11	<0.5	<0.5	7	2	<1	<1	3	<0.5
MW-5	09/13/11	<0.5	<0.5	8	2	<1	<1	<1	<0.5
MW-5	12/08/11	<0.5	<0.5	5	1	1	<1	<1	<0.5
MW-5	03/06/12	<0.5	<0.5	6	2	<1	<1	<1	<0.5
MW-5	06/06/12	<0.5	<0.5	7	2	<1	<1	<1	<0.5
MW-5	09/10/12	<0.5	<0.5	7	<1	1	<1	<1	<0.5
MW-5	12/04/12	<0.5	<0.5	10	3	<1	<1	<1	<0.5
MW-5	03/12/13	1	<1	5	<2	<2	<2	<2	<1
MW-5	06/12/13	<0.5	<0.5	7	3	<1	<1	<1	<0.5
MW-5	09/10/13	<0.5	<0.5	5	1	<1	<1	<1	<0.5
MW-5	01/18/14	<0.5	<0.5	5	1	<1	<1	<1	<0.5
MW-5	03/05/14	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-5	06/05/14	<1	<1	5	<2	<2	<2	<2	<1
MW-5	09/16/14	<0.5	<0.5	4	<1	<1	<1	<1	<0.5
MW-5	12/10/14	<1	<1	4	<2	<2	<2	<2	<1
MW-5	03/09/15	<0.5	<0.5	3	<1	<1	<1	<1	<0.5
MW-5	06/10/15	<0.5	<0.5	5	1	<1	<1	<1	<0.5
MW-5	09/13/15	<0.5	<0.5	5	1	<1	<1	<1	<0.5
MW-5	12/06/15	<0.5	<0.5	6	2	<1	<1	<1	<0.5
MW-5	03/09/16	<1	<1	3	<2	<2	<2	<2	<1
MW-5	06/15/16	<0.5	<0.5	4	2	<1	<1	<1	<0.5
MW-5	09/07/16	<0.5	<0.5	6	2	<1	<1	<1	<0.5
MW-5	12/06/16	<0.5	<0.5	3	1	<1	<1	<1	<0.5
MW-5	03/14/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-5	06/15/17	<0.5	<0.5	2	<1	<1	<1	<1	<0.5
MW-5	09/08/17	<0.5	<0.5	7	2	<1	<1	<1	<0.5
MW-5	12/02/17	<3	<3	<5	<5	<5	<5	<5	<3
MW-5	03/12/18	<1	<1	5	<2	<2	<2	<2	<1
MW-5	06/23/18	<1	<1	5	<2	<2	<2	<2	<1
MW-5	09/05/18	<2	<0.3	5	1	<0.3	<0.3	<4	<0.2
MW-5	12/02/18	<2	<0.3	2	0.9	<0.3	<0.3	<4	<0.2
MW-5	03/09/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-5	06/08/19	<2	<0.3	5	3 J	<0.3	<0.3	<4	<0.2
MW-5	09/10/19	<10	<2	3 J	<1	<2	<2	<20	<1
MW-5	11/02/19	<4	<0.6	5 J	2 J	0.7 J	<0.6	<8	<0.4
MW-5	03/09/20	<1.00	<1.00	3.74	0.941 J	<1.00	<1.00	<5.00 J0	<1.00
MW-5	09/13/20	<1.00	<1.00	5.72	1.23	<1.00	<1.00	<5.00	<1.00
MW-5	03/08/21	<1.00	<1.00	2.98	1.03	<1.00	<1.00	<5.00	<1.00

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-6	02/12/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	03/09/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	06/10/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	09/13/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	12/06/15	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	03/09/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	06/15/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	09/07/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	12/06/16	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	03/14/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	06/15/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	09/08/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	12/02/17	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	03/12/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	06/23/18	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
MW-6	09/05/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	12/02/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	03/09/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	06/08/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	09/10/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	11/02/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-6	03/09/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00 J0	<1.00
MW-6	09/13/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-6	03/08/21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-7	02/12/15	<0.5	<0.5	31	50	<1	<1	<1	<0.5
MW-7	03/09/15	<0.5	<0.5	80	120	<1	<1	<1	<0.5
MW-7	06/10/15	<0.5	<0.5	77	85	<2	<2	<2	<1
MW-7	09/13/15	<0.5	<0.5	82	92	<1	<1	<1	<0.5
MW-7	12/06/15	<1	<1	110	230	<2	<2	<2	<1
MW-7	03/09/16	<0.5	<0.5	110	210	<1	<1	<1	<0.5
MW-7	06/15/16	<0.5	<0.5	100	180	<1	<1	<1	<0.5
MW-7	09/07/16	LNAPL IN WELL							
MW-7	12/06/16	<0.5	<0.5	96	200	<1	<1	<1	<0.5
MW-7	03/14/17	<0.5	<0.5	110	210	<1	<1	<1	<0.5
MW-7	06/15/17	<0.5	<0.5	120	210	<1	<1	<1	<0.5
MW-7	09/08/17	LNAPL IN WELL							
MW-7	12/02/17	<0.5	<0.5	110	230	<1	<1	<1	<0.5
MW-7	03/12/18	<1	<1	120	230	<2	<2	<2	<1
MW-7	06/23/18	LNAPL IN WELL							
MW-7	09/05/18	<2	<0.3	110	160	<0.3	<0.3	<4	<0.2
MW-7	12/02/18	<2	<0.3	100	190	<0.3	<0.3	<4	<0.2
MW-7	03/09/19	<2	0.5 J	140	290	<0.3	0.4 J	<4	<0.2
MW-7	11/02/19	<2	<0.3	120	180	4 J	<0.3	<4	<0.2
MW-7	03/09/20	<10.0	<10.0	423	860	<10.0	<10.0	<50.0	<10.0
MW-7	09/13/20	LNAPL IN WELL							
MW-7	03/08/21	0.940 J	<10.0	78.2	144	<10.0	<10.0	<50.0	<10.0
MW-8	12/02/18	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-8	03/09/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-8	06/08/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-8	09/10/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2

Table 2. Groundwater Analytical Results - Volatile Organic Compounds

Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Date	Well ID/Date	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	MTBE
MW-8	11/02/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-8	03/09/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00 J0	<1.00
MW-8	09/13/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-8	03/08/21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-9	09/10/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-9	02/11/19	<2	<0.3	<0.3	<0.2	<0.3	<0.3	<4	<0.2
MW-9	03/09/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00 J0	<1.00
MW-9	09/13/20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
MW-9	03/08/21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00
RBCs: Volatilization to Outdoor Air									
Residential		2,100	180	>S	NA	>S	>S	3,600	350,000
Urban Residential		4,900	430	>S	NA	>S	>S	8,500	830,000
Occupational		9,000	790	>S	NA	>S	>S	16,000	1,500,000
RBCs: Vapor Intrusion Into Buildings									
Residential		300	45	>S	NA	>S	5,800	840	67,000
Urban Residential		700	110	>S	NA	>S	5,800	2,000	160,000
Occupational		3,900	590	>S	NA	>S	>S	11,000	870,000
RBCs: Groundwater in Excavation									
Construction and Excavation Worker		630	27	51,000	NA	15,000	1,700	500	63,000

EXPLANATIONS:

Concentrations reported in µg/L

Results in bold indicate analyte detected above one or more generic RBCs

RBCs are based on values presented in Appendix A of the Oregon DEQ's Risk-Based Decision Making for the Remediation of Petroleum Contaminated Sites (Oregon DEQ, 2003; updated November 1, 2015).

DEQ = Department of Environmental Quality

MTBE = Methyl-tert-butyl ether

NA = A generic RBC has not been established

RBCs = Risk-Based Concentrations

VOC = Volatile Organic Compounds

µg/L = Micrograms per liter

-- = Not Analyzed

>S = The groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

J = Estimated value between the method detection limit (MDL) and RDL

J0= The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.

<1.00 = Not Detected at or above the reported detection limit (RDL)

All concentrations are in micrograms per Liter

ANALYTICAL METHOD:

VOCs analyzed by (GC/MS) by Method 8260D

Oregon RBGA VOC by 8260.

Table 3. Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Benzo (g,h,i) perylene
MW-1	09/21/06	0.065	<0.02	<0.01	0.022	0.013	0.038	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-1	06/08/10	0.12	<0.025 ¹	0.083	0.23	0.014	0.027	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097
MW-1	09/07/10	0.46	<0.010 ¹	0.1	0.22	0.012	0.024	0.012	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/08/10	0.25	0.027	0.18	0.48	<0.0096	0.039	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-1	03/07/11	<0.029	<0.0096	0.22	0.41	0.091	0.061	0.014	0.029	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-1	06/30/11	1	0.048	0.29	0.59	0.098	0.056	0.027	0.028	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095
MW-1	09/13/11	0.029	0.036	0.19	0.72	0.045	0.042	0.014	0.012	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095
MW-1	12/08/11	0.7	0.018	0.15	0.26	<0.029	0.035	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
MW-1	03/06/12	<0.029	0.049	0.19	0.39	0.07	0.04	0.014	0.013	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-1	06/06/12	0.34	0.026	0.11	0.24	0.087	0.028	0.032	0.041	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
MW-1	09/10/12	1.5	0.02	0.13	0.61	0.033	0.037	0.035	0.046	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
MW-1	12/04/12	0.28	0.025	0.17	0.3	<0.029	0.025	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-1	03/12/13	0.41	0.013	0.045	0.096	<0.030	0.026	0.015	0.017	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099
MW-1	06/12/13	0.37	0.021	0.11	0.28	0.04	0.021	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	09/10/13	<0.032	<0.011	0.04	0.065	<0.032	<0.011	<0.011	0.013	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-1	01/18/14	<0.032	<0.011	0.089	0.15	<0.032	0.012	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-1	03/05/14	0.81	0.028	0.17	0.3	<0.031	0.027	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	06/05/14	<0.031	<0.010	0.14	0.39	<0.031	0.014	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	09/16/14	0.48	<0.010	0.11	0.38	<0.030	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/10/14	0.038	<0.010	<0.010	<0.010	<0.031	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	03/09/15	0.34	<0.010	0.1	0.17	0.04	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	06/10/15	<0.030	<0.010	0.083	0.27	0.061	0.041	<0.010	0.02	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	09/13/15	<0.030	0.03	0.12	0.45	0.12	0.055	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/06/15	<0.030	0.059	0.27	0.63	0.097	0.041	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	03/09/16	<0.031	0.027	0.19	0.48	0.076	0.034	0.014	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	06/15/16	<0.030	<0.010	0.13	0.29	0.039	0.035	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	09/07/16	<0.030	0.021	<0.010	1.3	0.043	0.013	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/06/16	<0.030	<0.010	0.19	0.38	<0.030	0.03	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	03/14/17	<0.030	<0.010	0.2	0.51	0.064	0.024	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	06/15/17	<0.030	<0.010	0.032	0.11	<0.030	0.014	0.011	0.027	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	09/08/17	<0.030	<0.010	0.24	0.75	0.077	0.038	0.011	0.04	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/02/17	0.048	<0.010	0.071	0.094	<0.031	0.028	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	03/12/18	<0.03	0.03	0.2	0.4	0.08	0.05	0.03	0.02	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-1	06/23/18	<0.03	0.04	0.2	0.6	0.05	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-1	09/05/18	<0.03	<0.010	0.2	0.8	0.05	0.04	0.02	0.02	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1	12/02/18	<0.03	0.02	0.1	0.1	<0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-1	03/09/19	<0.03	<0.01	0.2	0.5	0.1	0.05 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-1	09/10/19	<0.03	<0.01	0.2	0.6	0.03 J	0.03 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-1	11/02/19	<0.03	0.02 J	0.2	0.6	<0.03	0.03 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-1	03/09/20	0.651 J	<0.0500	0.134	0.327	0.0392 J	0.0245 J	<0.05	<0.05	0.00615 J	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-1	09/13/20	2.53	<0.0500	0.422	1.49	0.172	0.0400 J	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-1	03/08/21	1.20	0.0475 J	0.219	0.595	0.0960	0.0210 J	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-2	09/21/06	30	5.2	16	40	55	5.4	3.9	3.4	0.54	0.97	0.31	0.11	0.22	<0.2	<0.2	<0.2
MW-2	06/30/11 ³	59	6.5	29	63	63	5.2	6	5.3	0.95	1.2	0.62	<0.48	<0.48	<0.48	<0.48	<0.4

Table 3. Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Benzo (g,h,i) perylene
MW-2	12/02/17	2.2	<0.010	1.4	1.6	0.3	0.23	0.21	0.22	0.036	0.049	0.023	<0.010	0.018	<0.010	<0.010	0.012
MW-2	03/12/18	<0.3	1	5	11	9	0.9	1	1	0.3	0.4	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-2	06/23/18	<0.3	<0.1	5	17	11	0.9	1	1	0.2	0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-2	09/05/18	<0.03	<0.01	2	6	3	0.4	0.4	0.3	0.06	0.08	0.03	0.01	0.01	<0.01	<0.01	<0.01
MW-2	12/02/18	<0.03	0.5	3	5	3	0.4	0.7	0.5	0.09	0.1	0.04	0.02	0.03	0.01	<0.02	0.01
MW-2	03/09/19	<0.3	<0.1	56	140	95	20	25	21	3	5	2	0.6	1	0.4 J	<0.2	0.6
MW-2	06/08/19	<0.03	0.02 J	0.1	0.2	<0.03	0.04 J	0.01 J	0.02 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-2	09/10/19	<0.3	<0.1	13	30	32	2	4	4	0.6	0.9	0.3 J	0.1 J	0.2 J	<0.1	<0.2	<0.1
MW-2	11/02/19	<0.03	<0.01	1	2	3	0.4	0.3	0.2	0.04 J	0.05	0.02 J	<0.01	0.01 J	<0.01	<0.02	<0.01
MW-2	03/09/20	137	<0.500	82.6	166	167	20.0	20.5	19.5	2.95	3.04	1.70	0.627	0.920	0.373 J	0.136 J	0.464 J
MW-2	09/13/20	LNAPL IN WELL															
MW-2	03/08/21	2.11	0.250	1.55	2.97	1.52	0.0691	0.115	0.121	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-3	09/21/06	UNABLE TO LOCATE															
MW-3	06/08/10	0.16	<0.0097	<0.0097	0.013	<0.0097	0.041	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097
MW-3	09/07/10	0.3	<0.010	0.011	0.028	0.016	0.036	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/08/10	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY															
MW-3	03/07/11	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY															
MW-3	06/30/11	0.16	<0.0096	<0.0096	0.035	<0.029	0.035	0.019	0.041	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-3	09/13/11	0.029	<0.0096	<0.0096	0.061	<0.029	0.022	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-3	12/08/11	NOT SAMPLED DUE TO FAILURE OF WELL INTEGRITY															
MW-3	03/06/12	<0.029	<0.0096	<0.0096	0.019	<0.029	0.028	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-3	06/06/12	0.039	<0.0096	<0.0096	<0.0096	<0.029	0.023	<0.0096	0.015	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
MW-3	09/10/12	0.085	<0.010	<0.010	0.017	<0.030	0.027	<0.010	0.024	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/04/12	0.079	<0.0097	<0.0097	0.021	<0.029	0.019	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097
MW-3	03/12/13	0.23	<0.0097	<0.0097	0.014	<0.029	0.031	<0.0097	0.01	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097
MW-3	06/12/13	<0.031	<0.010	<0.010	<0.010	<0.031	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	09/10/13	<0.032	<0.011	<0.011	<0.011	<0.032	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-3	01/18/14	<0.030	<0.010	<0.010	0.022	<0.030	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	03/05/14	0.15	<0.010	<0.010	0.017	<0.030	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.016	0.016	0.02
MW-3	06/05/14	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	09/16/14	0.048	<0.010	<0.010	0.012	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/10/14	0.047	<0.010	<0.010	0.012	<0.031	0.012	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	03/09/15	0.058	<0.010	<0.010	0.011	<0.031	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	06/10/15	<0.030	<0.010	<0.010	<0.010	<0.030	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	09/13/15	<0.031	<0.010	<0.010	0.016	<0.031	0.022	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/06/15	<0.030	<0.010	<0.010	0.013	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	03/09/16	<0.030	<0.010	<0.010	0.014	<0.030	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	06/15/16	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	09/07/16	<0.030	<0.010	<0.010	0.021	<0.030	0.019	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/06/16	0.042	<0.010	<0.010	<0.010	<0.030	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	03/14/17	<0.030	<0.010	<0.010	0.023	<0.030	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	06/15/17	<0.031	<0.010	<0.010	<0.010	<0.031	0.012	<0.010	0.027	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	09/08/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	0.029	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	12/02/17	0.068	<0.010	<0.010	0.011	<0.031	0.015	<0.010	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-3	03/12/18	<0.03	<0.01	<0.01	0.02	<0.03	0.02	<0.01	<0.01	0.02	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.01
MW-3	06/23/18	<0.03	<0.01	<0.01	<0.01	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-3	09/05/18	<0.03	<0.01	<0.01	<0.01	<0.03	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01.		

McMinnville, Oregon



Well ID	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Benzo (g,h,i) perylene
MW-4A	03/14/17	0.031	<0.010	<0.010	0.011	<0.030	<0.010	0.013	0.011	0.014	0.013	0.013	0.012	0.011	0.012	0.012	0.011
MW-4A	06/15/17	<0.031	<0.010	<0.010	<0.010	<0.031	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-4A	09/08/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	0.016	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-4A	12/02/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-4A	03/12/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-4A	06/23/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-4A	09/05/18	0.04	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-4A	12/02/18	<0.03	<0.01	<0.01	<0.01	<0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-4A	03/09/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-4A	06/08/19	0.100	<0.01	<0.01	<0.01	<0.03	0.01 J	<0.01	0.01 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-4A	09/10/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-4A	11/02/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01

Table 3. Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Benzo (g,h,i) perylene
MW-6	03/14/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-6	06/15/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-6	09/08/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-6	12/02/17	<0.030	<0.010	<0.010	<0.010	<0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-6	03/12/18	0.06	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-6	06/23/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-6	09/05/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-6	12/02/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-6	03/09/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-6	06/08/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.02 J	<0.01	0.01 J	0.02 J	<0.02	0.02 J
MW-6	09/10/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-6	11/02/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-6	03/09/20	0.0237 J	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.05	<0.05	0.00563 J	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-6	09/13/20	<0.250	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-6	03/08/21	<0.250	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-7	02/12/15	<0.033	<0.011	0.31	0.61	0.95	0.067	0.023	0.079	0.013	0.016	<0.011	<0.011	<0.011	<0.011	<0.011	--
MW-7	03/09/15	0.71	<0.011	0.66	1.5	1.4	0.061	0.038	0.038	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-7	06/10/15	<0.030	<0.010	0.41	1.5	1.3	0.14	0.06	0.16	0.042	0.1	0.015	<0.010	0.013	<0.010	<0.010	0.021
MW-7	09/13/15	<0.031	<0.010	0.68	1.5	3.9	0.4	0.19	0.25	0.076	0.18	0.026	<0.010	<0.010	<0.010	<0.010	0.015
MW-7	12/06/15	<0.31	6.6	11	43	52	6.4	2.5	5.4	0.6	1.5	0.27	0.11	0.17	0.11	<0.10	0.22
MW-7	03/09/16	<0.030	0.2	0.67	1.9	5.8	0.37	0.25	0.37	0.08	0.17	0.027	<0.010	<0.010	<0.010	<0.010	<0.010
MW-7	06/15/16	<0.030	0.72	1.8	4.7	6.3	0.76	0.24	0.59	0.13	0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-7	09/07/16	LNAPL IN WELL															
MW-7	12/06/16	<0.030	0.33	1.4	3.9	3.1	0.15	0.072	0.21	0.037	0.093	0.012	<0.010	<0.010	<0.010	<0.010	<0.010
MW-7	03/14/17	<0.030	<0.010	0.74	1.9	2.2	0.19	0.059	0.12	0.018	0.051	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-7	06/15/17	<0.31	<0.010	5.1	11	14	1.2	0.71	1.2	0.22	0.69	0.17	0.058	0.11	0.053	0.019	0.069
MW-7	09/08/17	LNAPL IN WELL															
MW-7	12/02/17	1.2	0.18	0.54	1.7	5.8	0.48	0.26	0.32	0.073	0.19	0.026	<0.010	0.013	<0.010	<0.010	0.011
MW-7	03/12/18	<0.6	11	50	79	320	40	19	28	8	20	3	0.7	3	1	0.4	1
MW-7	06/23/18	LNAPL IN WELL															
MW-7	09/05/18	<0.03	<0.01	0.7	3	4	0.5	0.3	0.6	0.1	0.3	0.05	0.01	0.03	0.01	<0.01	0.02
MW-7	12/02/18	3	0.2	1	3	3	0.2	0.2	0.4	0.07	0.3	0.03	<0.01	<0.01	<0.01	<0.02	0.02
MW-7	03/09/19	<0.03	<0.01	3	10	15	1	0.7	1	0.3	0.7	0.1	<0.01	0.07	<0.01	<0.02	0.05
MW-7	11/02/19	<0.03	0.1	0.5	1	1	<0.01	<0.01	0.09	0.03 J	0.08	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-7	03/09/20	29.4	<0.500	15.8	35.4	51.6	<0.500	1.14	6.87	0.968	2.01	0.674	<0.500	0.240 J	<0.500	<0.500	0.277 J
MW-7	09/13/20	LNAPL IN WELL															
MW-7	03/08/21	1.61	0.221	0.956	2.41	1.87	0.0650	0.0325 J	0.0690	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-8	12/02/18	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-8	03/09/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-8	06/08/19	0.070	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.01 J	<0.01	<0.01	<0.01	<0.02	<0.01
MW-8	09/10/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-8	11/02/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-8	03/09/20	<0.250	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.05	<0.05	0.00561 J	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-8	09/13/20	<0.250	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-8	03/08/21	<0.250	<0.0500	<0.0500	<0.0500	0.0197 J	<0.0500	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-9	09/10/19	<0.03	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-9	11/02/19	<0.03	<0.01	<0.01	<0.01	<0.03	0.02 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
MW-9	03/09/20	0.0320 J	<0.0500	<0.0500	0.00873 J	0.0172 J	0.0414 J	<0.05	<0.05	0.00673 J	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.00452 J
MW-9	09/13/20	<0.250	<0.0500	<0.0500	<0.0500	<0.0500	0.057	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
MW-9	03/08/21	<0.500	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
RBCs: Volatilization to Outdoor Air																	
Residential	3600	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
Urban Residential	8500	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
Occupational	16000	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
RBCs: Vapor Intrusion Into Buildings																	
Residential	840	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
Urban Residential	2000	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
Occupational	11000	NA		>S	>S	NA	>S	NV	>S	>S	NV	NV	NV	NV	NV	NV	NA
RBCs: Groundwater in Excavation																	
Construction and Excavation Worker	500	NA		>S	>S	NA	>S	>S	>S	>S	>S	>S	>S	>S	>S	>S	NA

Table 3. Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Chevron Bulk Terminal No. 1001782
SE Davis Street and SE Chandler Avenue
McMinnville, Oregon



Well ID	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Benzo (g,h,i) perylene
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EXPLANATIONS:

Concentrations reported in µg/L
Results in bold indicate analyte detected above one or more generic RBCs
RBCs are based on values presented in Appendix A of the Oregon DEQ's Risk-Based Decision Making for the Remediation of Petroleum Contaminated Sites (Oregon DEQ, 2003; updated June 2012).
All concentrations are in micrograms per Liter
DEQ = Department of Environmental Quality
MDL = Method Detection Limit
NA = A generic RBC has not been established
NV = Non-volatile. This chemical is considered non-volatile for purposes of the exposure calculations.
PAHs = Polynuclear aromatic hydrocarbons
RBCs = Risk-Based Concentrations
QC = Quality Control
J = Estimated value between the method detection limit (MDL) and RDL.
J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
<1.00 = Not Detected at or above the reported detection limit (RDL)

SIM = Selective ion monitoring
SVOCs = Semi-Volatile Organic Compounds
µg/L = Micrograms per liter
-- = Not Analyzed
>S = The groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

ANALYTICAL METHOD:

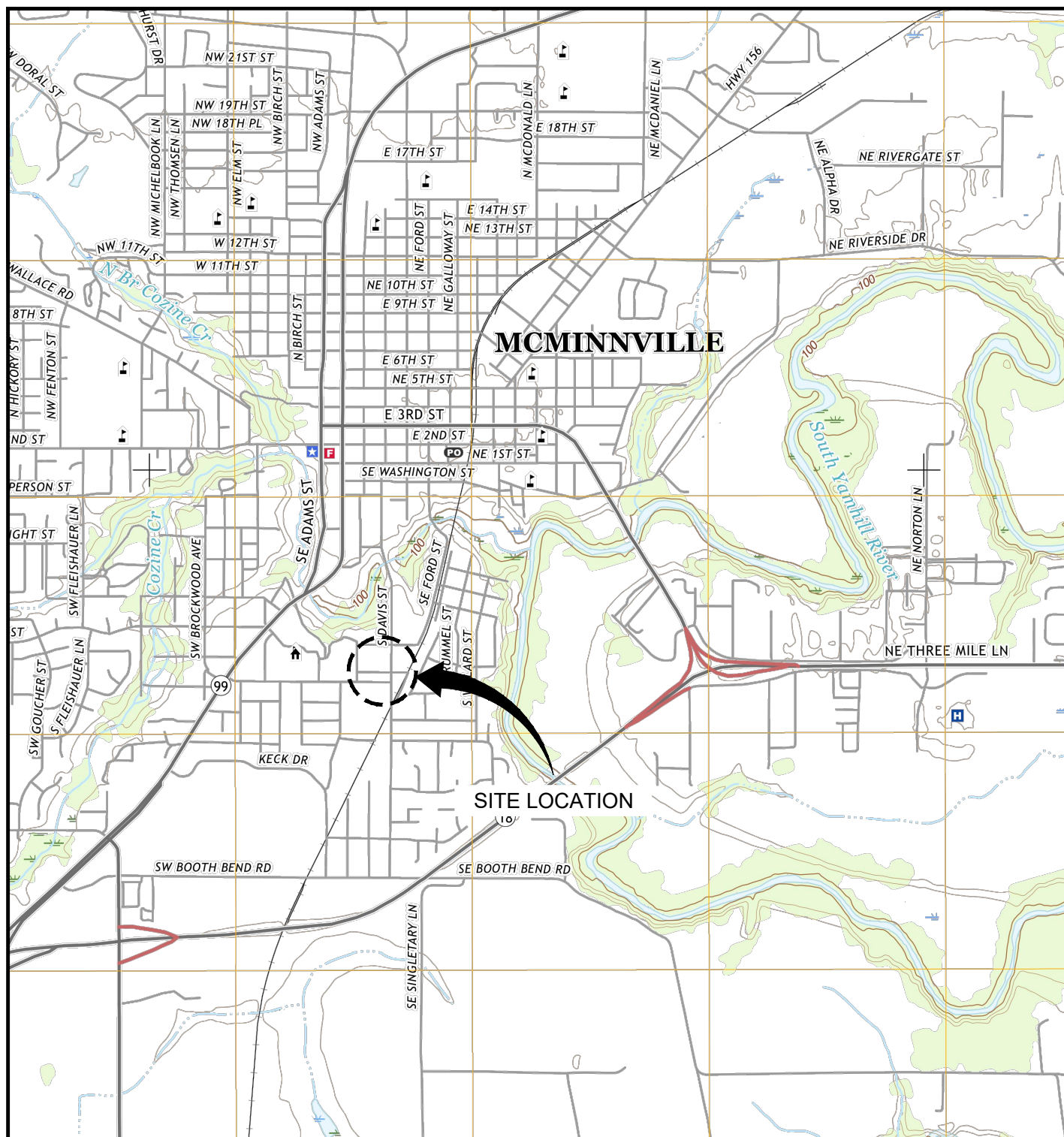
Selected SVOCs by 8270E-SIM.

NOTES:

- 1 Laboratory report indicates due to the presence of an interferent near the retention time of acenaphthylene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of acenaphthylene.
- 2 The laboratory report indicates the surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
- 3 Laboratory report indicates the reporting limits were raised due to interference from the sample matrix.

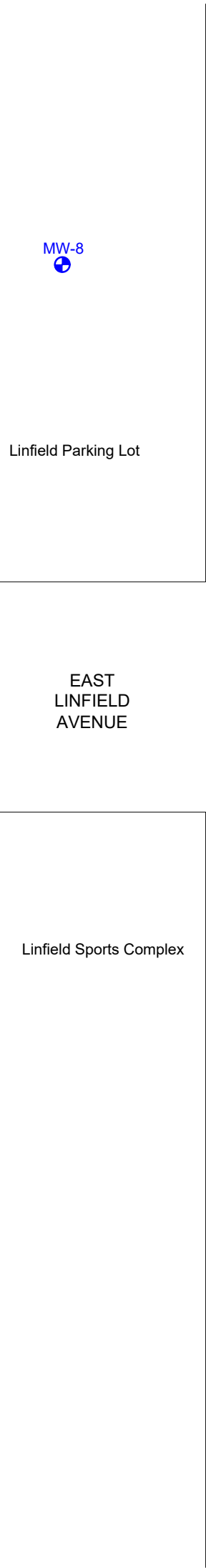
FIGURES





XREFS: PROJECTNAME: ----

SE CHANDLER AVENUE



LEGEND

APPROXIMATE PROPERTY BOUNDARY

FENCE LINE

FORMER BULK TERMINAL FEATURES



GROUNDWATER MONITORING WELL



ABANDONED GROUNDWATER MONITORING WELL



TEST PITS

REFERENCE

1. BASE MAP PROVIDED BY LEIDOS, DATED 10-1-2018.



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER CHEVRON BULK TERMINAL NO. 1001782
SE DAVIS STREET AND SE CHANDLER AVENUE,
McMINNVILLE, OREGON
1SA21 GROUNDWATER MONITORING REPORT

SITE PLAN



FIGURE

2



ATTACHMENT A

Field Data Sheets



Groundwater Gauging Log

Client:		Chevron					
Site ID:		1001782					
Site Location:		Mcminnville, Oregon					
Measuring Point:		Top of Casing					
Date(s):		03/08/2021					
Sampler(s):		Lee Bures					
Gauging Equipment:		Interface Probe					
Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	Comments
MW-1	03/08/2021	11:33	4.15	ND	19.53	0	--
MW-2	03/08/2021	11:49	4.98	ND	19.98	0	--
MW-3	03/08/2021	11:25	5.6	ND	20.74	0	--
MW-4A	03/08/2021	11:11	4.35	ND	17.04	0	--
MW-5	03/08/2021	11:39	3.31	ND	15.41	0	--
MW-6	03/08/2021	11:18	4.3	ND	17.03	0	--
MW-7	03/08/2021	11:58	4.15	ND	17.15	0	--
MW-8	03/08/2021	12:05	3.82	ND	16.98	0	--
MW-9	03/08/2021	12:13	2.2	ND	16.65	0	--

ft-bmp = feet below measuring point

ND = Not Detected

PID = Photoionization Detector Reading

ppm = parts per million

-- = Not Recorded

Project Number	30063816	Well ID	MW-1	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	5 to 20	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	4.15	Total Depth (ft-bmp)	17.15	Water Column (ft)	13.00	Gallons in Well 2.11
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	14:50	Well Volumes Purged	0.23	Sample ID	Mw-1-210308	Evacuation Equipment Peristaltic
Purge Start	14:29	Gallons Purged	0.48	Duplicate ID	--	
Purge End	14:49	Total Purge Time (h:m)	0:20			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
14:32	100	4.39	6.21	0.420	65.0	1.76	14.30	-60.5	Clear	None
14:35	100	4.44	6.24	0.421	49.0	0.35	14.30	-64.4	Clear	None
14:38	100	4.47	6.20	0.432	36.0	0.16	14.40	-69.2	Clear	None
14:41	100	4.50	6.20	0.436	28.0	0.13	14.50	-71.5	Clear	None
14:44	100	4.55	6.21	0.438	27.0	0.09	14.50	-75.1	Clear	None
14:47	200	4.55	6.24	0.439	27.0	0.06	14.50	-78.2	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-1-210308 Sample Time: 14:50 Sample Depth (ft-bmp): 11
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
 in. = inches
 ft = feet
 mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter
 PVC = Polyvinyl Chloride

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius
 -- = Not Recorded

Project Number	30063816	Well ID	MW-2	Date	3/8/2021		
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by	Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	5 to 20	Casing Diameter (in.)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	4.98	Total Depth (ft-bmp)	19.98	Water Column (ft)	15.00	Gallons in Well	2.44
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	16:13	Well Volumes Purged	0.32	Sample ID	Mw-2-210308	Evacuation Equipment	Peristaltic
Purge Start	15:55	Gallons Purged	0.79	Duplicate ID	--		
Purge End	16:11	Total Purge Time (h:m)	0:16				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
15:58	200	4.98	6.01	0.248	69.0	0.40	13.30	-30.3	Clear	Mild
16:01	200	4.98	5.92	0.250	51.0	0.30	13.20	-33.4	Clear	Mild
16:04	200	4.98	5.86	0.250	53.0	0.18	13.20	-37.4	Clear	Mild
16:07	200	4.98	5.87	0.251	51.0	0.09	13.20	-39.8	Clear	Mild
16:10	200	4.98	5.84	0.252	49.0	0.04	13.30	-42.3	Clear	Mild

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-2-210308 Sample Time: 16:13 Sample Depth (ft-bmp): 13
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Project Number	30063816	Well ID	MW-3	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	6 to 21	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	5.6	Total Depth (ft-bmp)	20.74	Water Column (ft)	15.14	Gallons in Well 2.46
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	14:07	Well Volumes Purged	0.32	Sample ID	Mw-3-210308	Evacuation Equipment Peristaltic
Purge Start	13:49	Gallons Purged	0.79	Duplicate ID	--	
Purge End	14:05	Total Purge Time (h:m)	0:16			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
13:52	200	5.60	5.83	0.710	43.0	0.97	14.70	-58.3	Clear	None
13:55	200	5.60	6.02	0.710	44.0	0.29	14.70	-69.8	Clear	None
13:58	200	5.60	6.14	0.710	38.0	0.11	14.70	-78.8	Clear	None
14:01	200	5.60	6.18	0.710	39.0	0.07	14.80	-82.3	Clear	None
14:04	200	5.60	6.21	0.710	38.0	0.03	14.80	-85.5	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-3-210308 Sample Time: 14:07 Sample Depth (ft-bmp): 13
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Project Number	30063816	Well ID	MW-4A	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	2 to 17	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	4.35	Total Depth (ft-bmp)	17.04	Water Column (ft)	12.69	Gallons in Well 2.06
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	12:46	Well Volumes Purged	0.23	Sample ID	Mw-4A-210308	Evacuation Equipment Peristaltic
Purge Start	12:25	Gallons Purged	0.48	Duplicate ID	--	
Purge End	12:44	Total Purge Time (h:m)	0:19			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:28	100	4.93	6.20	0.168	34.0	0.37	13.10	152.5	Clear	None
12:31	100	5.07	5.89	0.170	34.0	0.23	12.60	144.5	Clear	None
12:34	100	5.15	5.78	0.168	35.0	0.22	12.90	136.3	Clear	None
12:37	100	5.22	5.62	0.168	33.0	0.17	12.80	128.8	Clear	None
12:40	100	5.30	5.56	0.168	32.0	0.12	12.70	124.1	Clear	None
12:43	100	5.36	5.54	0.168	32.0	0.11	12.70	121.3	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-4A-210308 Sample Time: 12:46 Sample Depth (ft-bmp): 11
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
 in. = inches
 ft = feet
 mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter
 PVC = Polyvinyl Chloride

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius
 -- = Not Recorded

Project Number	30063816	Well ID	MW-5	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	5 to 20	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	3.31	Total Depth (ft-bmp)	15.41	Water Column (ft)	12.10	Gallons in Well 1.97
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	15:32	Well Volumes Purged	0.40	Sample ID	Mw5-210308	Evacuation Equipment Peristaltic
Purge Start	15:14	Gallons Purged	0.79	Duplicate ID	--	
Purge End	15:30	Total Purge Time (h:m)	0:16			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
15:17	200	3.43	6.35	0.249	63.0	1.19	15.00	-80.2	Clear	None
15:20	200	3.43	6.51	0.249	45.0	0.32	14.20	-86.2	Clear	None
15:23	200	3.43	6.40	0.252	37.0	0.23	14.20	-89.4	Clear	None
15:26	200	3.43	6.40	0.250	35.0	0.18	14.10	-92.3	Clear	None
15:29	200	3.43	6.41	0.251	35.0	0.14	14.00	-94.5	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw5-210308 Sample Time: 15:32 Sample Depth (ft-bmp): 9
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Project Number	30063816	Well ID	MW-6	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	2 to 17	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	4.3	Total Depth (ft-bmp)	17.03	Water Column (ft)	12.73	Gallons in Well 2.07
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	13:26	Well Volumes Purged	0.38	Sample ID	Mw-6-210308	Evacuation Equipment Peristaltic
Purge Start	13:08	Gallons Purged	0.79	Duplicate ID	--	
Purge End	13:25	Total Purge Time (h:m)	0:17			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
13:11	200	4.41	5.29	0.187	52.0	1.61	14.10	235.1	Clear	None
13:14	200	4.44	5.33	0.186	46.0	0.48	14.20	222.5	Clear	None
13:17	200	4.44	5.34	0.186	42.0	0.26	13.90	209.2	Clear	None
13:20	200	4.44	5.33	0.186	41.0	0.22	13.90	207.3	Clear	None
13:23	200	4.44	5.33	0.186	41.0	0.20	13.90	206.6	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-6-210308 Sample Time: 13:26 Sample Depth (ft-bmp): 11
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Project Number	30063816	Well ID	MW-7	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	2 to 17	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	4.15	Total Depth (ft-bmp)	17.15	Water Column (ft)	13.00	Gallons in Well 2.11
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	16:52	Well Volumes Purged	0.19	Sample ID	Mw-7-210308	Evacuation Equipment Peristaltic
Purge Start	16:34	Gallons Purged	0.40	Duplicate ID	--	
Purge End	16:51	Total Purge Time (h:m)	0:17			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
16:37	100	4.90	6.02	0.550	58.0	0.18	14.30	-66.9	Clear	None
16:40	100	5.15	6.04	0.551	48.0	0.55	14.30	-70.2	Clear	None
16:43	100	5.25	6.07	0.552	55.0	0.06	14.30	-72.9	Clear	None
16:46	100	5.33	6.08	0.552	57.0	0.04	14.40	-75.3	Clear	None
16:49	100	5.40	6.09	0.552	58.0	0.05	14.30	-76.7	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-7-210308 Sample Time: 16:52 Sample Depth (ft-bmp): 11
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
 in. = inches
 ft = feet
 mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter
 PVC = Polyvinyl Chloride

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius
 -- = Not Recorded

Project Number	30063816	Well ID	MW-8	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	2 to 17	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	3.82	Total Depth (ft-bmp)	16.98	Water Column (ft)	13.16	Gallons in Well 2.14
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	17:31	Well Volumes Purged	0.19	Sample ID	Mw-8-210308	Evacuation Equipment Peristaltic
Purge Start	17:13	Gallons Purged	0.40	Duplicate ID	--	
Purge End	17:30	Total Purge Time (h:m)	0:17			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
17:16	100	4.23	5.70	0.075	46.0	2.63	12.40	108.5	Clear	None
17:19	100	4.34	5.53	0.072	30.0	2.66	12.30	116.1	Clear	None
17:22	100	4.38	5.41	0.071	26.0	2.57	12.10	121	Clear	None
17:25	100	4.41	5.37	0.070	28.0	2.60	12.20	128.1	Clear	None
17:28	100	12.00	5.35	0.070	28.0	2.56	12.00	130.7	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-8-210308 Sample Time: 17:31 Sample Depth (ft-bmp): 11
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
 in. = inches
 ft = feet
 mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter
 PVC = Polyvinyl Chloride

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius
 -- = Not Recorded

Project Number	30063816	Well ID	MW-9	Date	3/8/2021	
Site Location	Mcminnville, Oregon	Site ID	1001782	Weather (°F)	Clear	Sampled by Lee Bures
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	2 to 17	Casing Diameter (in.)	2	Well Casing Material PVC
Static Water Level (ft-bmp)	2.2	Total Depth (ft-bmp)	16.85	Water Column (ft)	14.65	Gallons in Well 2.38
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	18:18	Well Volumes Purged	0.33	Sample ID	Mw-9-210308	Evacuation Equipment Peristaltic
Purge Start	18:00	Gallons Purged	0.79	Duplicate ID	--	
Purge End	18:18	Total Purge Time (h:m)	0:18			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
18:03	200	2.43	5.12	0.075	157	3.56	11.20	132	Clear	None
18:06	200	2.50	5.27	0.074	93.0	1.19	11.40	127.3	Clear	None
18:09	200	2.58	5.26	0.074	100	1.04	11.40	124.1	Clear	None
18:12	200	2.66	5.26	0.074	104	1.06	11.30	127.7	Clear	None
18:15	200	2.68	5.25	0.074	106	1.07	11.30	131.4	Clear	None

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: Mw-9-210308 Sample Time: 18:18 Sample Depth (ft-bmp): 9
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point
 in. = inches
 ft = feet
 mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter
 PVC = Polyvinyl Chloride

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius
 -- = Not Recorded

WELLHEAD INSPECTION FORM

Client: Arcadis Site: SE Chandler Ave & SE Davis St Date: 3/8/21
 Job #: 210308-FKI Technician: Foster K Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MW-1	X					3/3									Water bailed
MW-2	X					2/2									Water bailed
MW-3	X					1/2									Water bailed
MW-4A	X														Water bailed
MW-5	X					1/3 2/3									Water bailed
MW-6	X														Water bailed
MW-7	X														Water bailed
MW-8	X				1/3										Water bailed
MW-9	X			X											

NOTES: _____

CHEVRON-WASHINGTON/OREGON TYPE **A** BILL OF LADING

SOURCE RECORD BILL OF LADING
 FOR PURGEWATER RECOVERED FROM
 GROUNDWATER WELLS AT CHEVRON FACILITIES IN
 THE STATE OF WASHINGTON AND OREGON. THE
 PURGE- WATER WHICH HAS BEEN RECOVERED FROM
 GROUND- WATER WELLS IS COLLECTED BY THE
 CONTRACTOR AND HAULED TO THEIR FACILITY IN
 KENT, WASHINGTON FOR TEMPORARILY HOLDING
 PENDING TRANSPORT BY OTHERS TO FINAL
 DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 22727 72ND Ave South, Suite D - 102, Kent, WA 98032. BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

1001782 Stephen Ahlqvist
 CHEVRON # Chevron Project Manager
 SE Chandler & SE Davis St Minnville OR
 Street number street name city state

WELL I.D. GALS. WELL I.D. GALS.

MW-1 1 1

MW-2 1 1

MW-3 1 1

MW-4A 1 1

MW-5 1 1

MW-6 1 1

MW-7 1 1

MW-8 1 1

MW-9 1 1

added equip. 1 1
 rinse water 1 1
 any other adjustments /

TOTAL GALS. 10
RECOVERED 88
 loaded onto
 BTS vehicle #

BTS event # 26308-FK1 time 1600 date 3.18.12

signature *Stephen Ahlqvist*

Permit To Work

for Chevron EMC Sites

Client:

Arcadis

Date

3/8/21

Site Address:

SE Chandler Ave & SE Davis St McMinnville OR

Job Number:

210308-EK1

Technician(s):

Foster Kaetzel**Pre-Job Safety Review****1. JMP reviewed, site restrictions and parking/access issues addressed.**Reviewed: ☐**2. Special Permit Required Task Review**

Are there any conditions or tasks that would require:

Yes

No

Confined space entry

☐☒

Working at height

☐☒

Lock-out/Tag-out

☐☒

Excavations greater than 4 feet deep

☐☒Excavations within 3 feet of a buried active electrical line or product piping
or within 10 feet of a high pressure gas line.☐☒Use of overhead equipment within 15 feet of an overhead electrical power
line or pole supporting one☐☒

Hot work

☐☒

If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.

3. Is a Traffic Control Permit required for today's work?

Yes

No

☐☒

If so is it in the folder?

☐☐

Is it current?

☐☐

Do you understand the Traffic Control Plan and what equipment you will need?

☐☐**On site Pre-Job Safety Review**

1. Reviewed and signed the site specific HASP.

☒

2. Route to hospital understood.

☒

3. Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP.

☒

4. Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.

☒

5. Understands procedure to follow, if site circumstances change, to address new site hazards.

☒

6. There are no unexpected conditions which would make your task a Special Permit Required Task. If there is, contact your Project Manager.

☒

7. All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.

☒

8. After lunch tailgate safety meeting refresher conducted.

☒

If Checklist Task cannot be completed, explain:

Permit To Work Authority:

Name

Foster Kaetzel

Title

1080
Env Tech

Date

3/8/21

Time

10:00

ATTACHMENT B

Laboratory Report and Chain-of-Custody Documentation



Arcadis - Chevron - OR

Sample Delivery Group: L1326327
Samples Received: 03/12/2021
Project Number: 30063816
Description: 1001782
Site: SE CHANDLER AVE & SE DAVIS ST
Report To: Stephen Ahlquist
111 SW Columbia St
Portland, OR 97201

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
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⁸ Al
⁹ Sc

SAMPLE SUMMARY

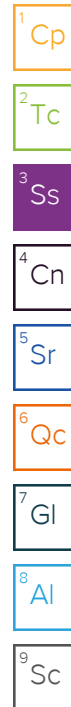
MW-1-210308 L1326327-01 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 14:50

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 05:57	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:22	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 04:04	03/16/21 04:04	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 14:45	03/17/21 14:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 19:42	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 18:10	LEA	Mt. Juliet, TN



MW-2-210308 L1326327-02 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 16:13

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:00	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:25	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636752	50	03/19/21 02:53	03/19/21 02:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636844	5	03/19/21 00:06	03/19/21 00:06	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 20:03	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 18:30	LEA	Mt. Juliet, TN

MW-3-210308 L1326327-03 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 14:07

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:03	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:28	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 04:27	03/16/21 04:27	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 15:04	03/17/21 15:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 20:23	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 18:50	LEA	Mt. Juliet, TN

MW-4A-210308 L1326327-04 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 12:46

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:06	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:30	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 04:52	03/16/21 04:52	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 15:23	03/17/21 15:23	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 20:43	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 19:10	LEA	Mt. Juliet, TN

MW-5-210308 L1326327-05 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 15:32

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:09	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:33	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	10	03/16/21 09:40	03/16/21 09:40	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 15:42	03/17/21 15:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 21:03	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 19:30	LEA	Mt. Juliet, TN

SAMPLE SUMMARY

MW-6-210308 L1326327-06 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 13:26

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:17	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:41	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 05:16	03/16/21 05:16	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 16:01	03/17/21 16:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 21:23	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 19:50	LEA	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-7-210308 L1326327-07 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 16:52

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:20	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:44	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636752	25	03/19/21 02:31	03/19/21 02:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	10	03/17/21 18:25	03/17/21 18:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 21:44	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 20:10	LEA	Mt. Juliet, TN

MW-8-210308 L1326327-08 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 17:31

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:23	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:47	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 05:40	03/16/21 05:40	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 16:20	03/17/21 16:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 22:04	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	1	03/13/21 10:55	03/13/21 20:30	LEA	Mt. Juliet, TN

MW-9-210308 L1326327-09 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 18:18

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1635078	1	03/16/21 13:50	03/17/21 06:26	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1637633	1	03/19/21 19:28	03/20/21 14:50	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 06:04	03/16/21 06:04	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 16:39	03/17/21 16:39	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1635159	1	03/16/21 13:24	03/16/21 22:24	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1634054	2	03/13/21 10:55	03/13/21 20:51	LEA	Mt. Juliet, TN

TB01-210308 L1326327-10 GW

Collected by
Foster Kaetzel

Collected date/time
03/08/21 08:00

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1635114	1	03/16/21 02:52	03/16/21 02:52	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 11:54	03/17/21 11:54	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	3.79	J	2.99	6.00	1	03/17/2021 05:57	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:22	WG1637633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2560		31.6	100	1	03/16/2021 04:04	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		03/16/2021 04:04	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 14:45	WG1635431
Ethylbenzene	0.599	J	0.137	1.00	1	03/17/2021 14:45	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 14:45	WG1635431
Xylenes, Total	0.585	J	0.174	3.00	1	03/17/2021 14:45	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 14:45	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 14:45	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 14:45	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 14:45	WG1635431
Isopropylbenzene	3.49		0.105	1.00	1	03/17/2021 14:45	WG1635431
n-Propylbenzene	2.39		0.0993	1.00	1	03/17/2021 14:45	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 14:45	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 14:45	WG1635431
(S) Toluene-d8	93.8			80.0-120		03/17/2021 14:45	WG1635431
(S) 4-Bromofluorobenzene	96.9			77.0-126		03/17/2021 14:45	WG1635431
(S) 1,2-Dichloroethane-d4	119			70.0-130		03/17/2021 14:45	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	110		33.3	100	1	03/16/2021 19:42	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 19:42	WG1635159
(S) o-Terphenyl	65.4			31.0-160		03/16/2021 19:42	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	0.0210	J	0.0190	0.0500	1	03/13/2021 18:10	WG1634054
Acenaphthene	0.219		0.0190	0.0500	1	03/13/2021 18:10	WG1634054
Acenaphthylene	0.0475	J	0.0171	0.0500	1	03/13/2021 18:10	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 18:10	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 18:10	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 18:10	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 18:10	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 18:10	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 18:10	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 18:10	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 18:10	WG1634054
Fluorene	0.595		0.0169	0.0500	1	03/13/2021 18:10	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 18:10	WG1634054
Naphthalene	1.20		0.0917	0.250	1	03/13/2021 18:10	WG1634054
Phenanthrene	0.0960		0.0180	0.0500	1	03/13/2021 18:10	WG1634054

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 18:10	WG1634054
1-Methylnaphthalene	1.49		0.0687	0.250	1	03/13/2021 18:10	WG1634054
2-Methylnaphthalene	U		0.0674	0.250	1	03/13/2021 18:10	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 18:10	WG1634054
(S) Nitrobenzene-d5	99.5			31.0-160		03/13/2021 18:10	WG1634054
(S) 2-Fluorobiphenyl	88.9			48.0-148		03/13/2021 18:10	WG1634054
(S) p-Terphenyl-d14	106			37.0-146		03/13/2021 18:10	WG1634054

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	7.54		2.99	6.00	1	03/17/2021 06:00	WG1635078
Lead,Dissolved	3.74	J	2.99	6.00	1	03/20/2021 14:25	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	5100		1580	5000	50	03/19/2021 02:53	WG1636752
(S) a,a,a-Trifluorotoluene(FID)	99.5			78.0-120		03/19/2021 02:53	WG1636752

Volatile Organic Compounds (GC/MS) by Method 8260D

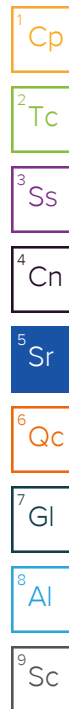
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	61.7		0.471	5.00	5	03/19/2021 00:06	WG1636844
Ethylbenzene	8.90		0.685	5.00	5	03/19/2021 00:06	WG1636844
Toluene	11.2		1.39	5.00	5	03/19/2021 00:06	WG1636844
Xylenes, Total	4.64	J	0.870	15.0	5	03/19/2021 00:06	WG1636844
Methyl tert-butyl ether	U		0.505	5.00	5	03/19/2021 00:06	WG1636844
Naphthalene	U		5.00	25.0	5	03/19/2021 00:06	WG1636844
1,2-Dibromoethane	U		0.630	5.00	5	03/19/2021 00:06	WG1636844
1,2-Dichloroethane	U		0.409	5.00	5	03/19/2021 00:06	WG1636844
Isopropylbenzene	32.3		0.525	5.00	5	03/19/2021 00:06	WG1636844
n-Propylbenzene	44.7		0.497	5.00	5	03/19/2021 00:06	WG1636844
1,2,4-Trimethylbenzene	U		1.61	5.00	5	03/19/2021 00:06	WG1636844
1,3,5-Trimethylbenzene	U		0.520	5.00	5	03/19/2021 00:06	WG1636844
(S) Toluene-d8	98.5			80.0-120		03/19/2021 00:06	WG1636844
(S) 4-Bromofluorobenzene	98.6			77.0-126		03/19/2021 00:06	WG1636844
(S) 1,2-Dichloroethane-d4	117			70.0-130		03/19/2021 00:06	WG1636844

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1750		33.3	100	1	03/16/2021 20:03	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 20:03	WG1635159
(S) o-Terphenyl	72.5			31.0-160		03/16/2021 20:03	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	0.0691		0.0190	0.0500	1	03/13/2021 18:30	WG1634054
Acenaphthene	1.55		0.0190	0.0500	1	03/13/2021 18:30	WG1634054
Acenaphthylene	0.250		0.0171	0.0500	1	03/13/2021 18:30	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 18:30	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 18:30	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 18:30	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 18:30	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 18:30	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 18:30	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 18:30	WG1634054
Fluoranthene	0.115		0.0270	0.100	1	03/13/2021 18:30	WG1634054
Fluorene	2.97		0.0169	0.0500	1	03/13/2021 18:30	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 18:30	WG1634054
Naphthalene	2.11		0.0917	0.250	1	03/13/2021 18:30	WG1634054
Phenanthrene	1.52		0.0180	0.0500	1	03/13/2021 18:30	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	0.121		0.0169	0.0500	1	03/13/2021 18:30	WG1634054
1-Methylnaphthalene	45.7		0.0687	0.250	1	03/13/2021 18:30	WG1634054
2-Methylnaphthalene	44.5		0.0674	0.250	1	03/13/2021 18:30	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 18:30	WG1634054
(S) Nitrobenzene-d5	142			31.0-160		03/13/2021 18:30	WG1634054
(S) 2-Fluorobiphenyl	90.0			48.0-148		03/13/2021 18:30	WG1634054
(S) p-Terphenyl-d14	107			37.0-146		03/13/2021 18:30	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	6.38		2.99	6.00	1	03/17/2021 06:03	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:28	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2000		31.6	100	1	03/16/2021 04:27	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	82.4			78.0-120		03/16/2021 04:27	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

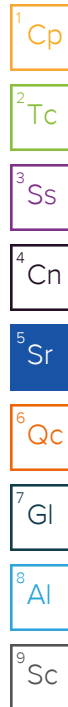
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.218	J	0.0941	1.00	1	03/17/2021 15:04	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 15:04	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 15:04	WG1635431
Xylenes, Total	U		0.174	3.00	1	03/17/2021 15:04	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 15:04	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 15:04	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 15:04	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 15:04	WG1635431
Isopropylbenzene	2.21		0.105	1.00	1	03/17/2021 15:04	WG1635431
n-Propylbenzene	0.570	J	0.0993	1.00	1	03/17/2021 15:04	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 15:04	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 15:04	WG1635431
(S) Toluene-d8	93.8			80.0-120		03/17/2021 15:04	WG1635431
(S) 4-Bromofluorobenzene	101			77.0-126		03/17/2021 15:04	WG1635431
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2021 15:04	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	57.4	J	33.3	100	1	03/16/2021 20:23	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 20:23	WG1635159
(S) o-Terphenyl	72.0			31.0-160		03/16/2021 20:23	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	03/13/2021 18:50	WG1634054
Acenaphthene	U		0.0190	0.0500	1	03/13/2021 18:50	WG1634054
Acenaphthylene	U		0.0171	0.0500	1	03/13/2021 18:50	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 18:50	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 18:50	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 18:50	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 18:50	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 18:50	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 18:50	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 18:50	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 18:50	WG1634054
Fluorene	0.0237	J	0.0169	0.0500	1	03/13/2021 18:50	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 18:50	WG1634054
Naphthalene	0.372		0.0917	0.250	1	03/13/2021 18:50	WG1634054
Phenanthrene	U		0.0180	0.0500	1	03/13/2021 18:50	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 18:50	WG1634054
1-Methylnaphthalene	0.113	J	0.0687	0.250	1	03/13/2021 18:50	WG1634054
2-Methylnaphthalene	U		0.0674	0.250	1	03/13/2021 18:50	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 18:50	WG1634054
(S) Nitrobenzene-d5	118			31.0-160		03/13/2021 18:50	WG1634054
(S) 2-Fluorobiphenyl	90.5			48.0-148		03/13/2021 18:50	WG1634054
(S) p-Terphenyl-d14	105			37.0-146		03/13/2021 18:50	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	5.17	J	2.99	6.00	1	03/17/2021 06:06	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:30	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	62.1	B_J	31.6	100	1	03/16/2021 04:52	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		03/16/2021 04:52	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

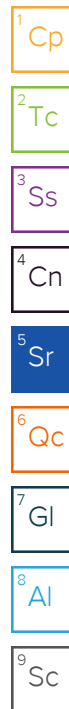
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 15:23	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 15:23	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 15:23	WG1635431
Xylenes, Total	U		0.174	3.00	1	03/17/2021 15:23	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 15:23	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 15:23	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 15:23	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 15:23	WG1635431
Isopropylbenzene	U		0.105	1.00	1	03/17/2021 15:23	WG1635431
n-Propylbenzene	U		0.0993	1.00	1	03/17/2021 15:23	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 15:23	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 15:23	WG1635431
(S) Toluene-d8	102			80.0-120		03/17/2021 15:23	WG1635431
(S) 4-Bromofluorobenzene	104			77.0-126		03/17/2021 15:23	WG1635431
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2021 15:23	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		33.3	100	1	03/16/2021 20:43	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 20:43	WG1635159
(S) o-Terphenyl	64.8			31.0-160		03/16/2021 20:43	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	03/13/2021 19:10	WG1634054
Acenaphthene	U		0.0190	0.0500	1	03/13/2021 19:10	WG1634054
Acenaphthylene	U		0.0171	0.0500	1	03/13/2021 19:10	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 19:10	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 19:10	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 19:10	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 19:10	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 19:10	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 19:10	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 19:10	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 19:10	WG1634054
Fluorene	U		0.0169	0.0500	1	03/13/2021 19:10	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 19:10	WG1634054
Naphthalene	U		0.0917	0.250	1	03/13/2021 19:10	WG1634054
Phenanthrene	U		0.0180	0.0500	1	03/13/2021 19:10	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 19:10	WG1634054
1-Methylnaphthalene	U		0.0687	0.250	1	03/13/2021 19:10	WG1634054
2-Methylnaphthalene	U		0.0674	0.250	1	03/13/2021 19:10	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 19:10	WG1634054
(S) Nitrobenzene-d5	96.8			31.0-160		03/13/2021 19:10	WG1634054
(S) 2-Fluorobiphenyl	90.0			48.0-148		03/13/2021 19:10	WG1634054
(S) p-Terphenyl-d14	99.5			37.0-146		03/13/2021 19:10	WG1634054

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	03/17/2021 06:09	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:33	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	7550		316	1000	10	03/16/2021 09:40	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		03/16/2021 09:40	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

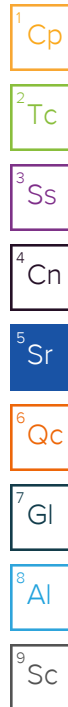
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	1.94		0.0941	1.00	1	03/17/2021 15:42	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 15:42	WG1635431
Toluene	0.346	J	0.278	1.00	1	03/17/2021 15:42	WG1635431
Xylenes, Total	0.509	J	0.174	3.00	1	03/17/2021 15:42	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 15:42	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 15:42	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 15:42	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 15:42	WG1635431
Isopropylbenzene	2.98		0.105	1.00	1	03/17/2021 15:42	WG1635431
n-Propylbenzene	1.03		0.0993	1.00	1	03/17/2021 15:42	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 15:42	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 15:42	WG1635431
(S) Toluene-d8	69.4	J2		80.0-120		03/17/2021 15:42	WG1635431
(S) 4-Bromofluorobenzene	78.3			77.0-126		03/17/2021 15:42	WG1635431
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/17/2021 15:42	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	58.1	J	33.3	100	1	03/16/2021 21:03	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 21:03	WG1635159
(S) o-Terphenyl	58.0			31.0-160		03/16/2021 21:03	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	03/13/2021 19:30	WG1634054
Acenaphthene	0.0883		0.0190	0.0500	1	03/13/2021 19:30	WG1634054
Acenaphthylene	U		0.0171	0.0500	1	03/13/2021 19:30	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 19:30	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 19:30	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 19:30	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 19:30	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 19:30	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 19:30	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 19:30	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 19:30	WG1634054
Fluorene	0.200		0.0169	0.0500	1	03/13/2021 19:30	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 19:30	WG1634054
Naphthalene	0.465		0.0917	0.250	1	03/13/2021 19:30	WG1634054
Phenanthrene	0.0310	J	0.0180	0.0500	1	03/13/2021 19:30	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 19:30	WG1634054
1-Methylnaphthalene	1.86		0.0687	0.250	1	03/13/2021 19:30	WG1634054
2-Methylnaphthalene	U		0.0674	0.250	1	03/13/2021 19:30	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 19:30	WG1634054
(S) Nitrobenzene-d5	94.7			31.0-160		03/13/2021 19:30	WG1634054
(S) 2-Fluorobiphenyl	91.1			48.0-148		03/13/2021 19:30	WG1634054
(S) p-Terphenyl-d14	112			37.0-146		03/13/2021 19:30	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	03/17/2021 06:17	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:41	WG1637633

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	33.7	B J	31.6	100	1	03/16/2021 05:16	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		03/16/2021 05:16	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 16:01	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 16:01	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 16:01	WG1635431
Xylenes, Total	U		0.174	3.00	1	03/17/2021 16:01	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 16:01	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 16:01	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 16:01	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 16:01	WG1635431
Isopropylbenzene	U		0.105	1.00	1	03/17/2021 16:01	WG1635431
n-Propylbenzene	U		0.0993	1.00	1	03/17/2021 16:01	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 16:01	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 16:01	WG1635431
(S) Toluene-d8	103			80.0-120		03/17/2021 16:01	WG1635431
(S) 4-Bromofluorobenzene	105			77.0-126		03/17/2021 16:01	WG1635431
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/17/2021 16:01	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		33.3	100	1	03/16/2021 21:23	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 21:23	WG1635159
(S) o-Terphenyl	74.2			31.0-160		03/16/2021 21:23	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	03/13/2021 19:50	WG1634054
Acenaphthene	U		0.0190	0.0500	1	03/13/2021 19:50	WG1634054
Acenaphthylene	U		0.0171	0.0500	1	03/13/2021 19:50	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 19:50	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 19:50	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 19:50	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 19:50	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 19:50	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 19:50	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 19:50	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 19:50	WG1634054
Fluorene	U		0.0169	0.0500	1	03/13/2021 19:50	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 19:50	WG1634054
Naphthalene	U		0.0917	0.250	1	03/13/2021 19:50	WG1634054
Phenanthrene	U		0.0180	0.0500	1	03/13/2021 19:50	WG1634054

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 19:50	WG1634054
1-Methylnaphthalene	U		0.0687	0.250	1	03/13/2021 19:50	WG1634054
2-Methylnaphthalene	U		0.0674	0.250	1	03/13/2021 19:50	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 19:50	WG1634054
(S) Nitrobenzene-d5	97.9			31.0-160		03/13/2021 19:50	WG1634054
(S) 2-Fluorobiphenyl	93.2			48.0-148		03/13/2021 19:50	WG1634054
(S) p-Terphenyl-d14	107			37.0-146		03/13/2021 19:50	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	8.48		2.99	6.00	1	03/17/2021 06:20	WG1635078
Lead,Dissolved	3.49	J	2.99	6.00	1	03/20/2021 14:44	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4060		790	2500	25	03/19/2021 02:31	WG1636752
(S) a,a,a-Trifluorotoluene(FID)	99.9			78.0-120		03/19/2021 02:31	WG1636752

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	18.1		0.941	10.0	10	03/17/2021 18:25	WG1635431
Ethylbenzene	5.09	J	1.37	10.0	10	03/17/2021 18:25	WG1635431
Toluene	2.98	J	2.78	10.0	10	03/17/2021 18:25	WG1635431
Xylenes, Total	1.87	J	1.74	30.0	10	03/17/2021 18:25	WG1635431
Methyl tert-butyl ether	U		1.01	10.0	10	03/17/2021 18:25	WG1635431
Naphthalene	U		10.0	50.0	10	03/17/2021 18:25	WG1635431
1,2-Dibromoethane	U		1.26	10.0	10	03/17/2021 18:25	WG1635431
1,2-Dichloroethane	0.940	J	0.819	10.0	10	03/17/2021 18:25	WG1635431
Isopropylbenzene	78.2		1.05	10.0	10	03/17/2021 18:25	WG1635431
n-Propylbenzene	144		0.993	10.0	10	03/17/2021 18:25	WG1635431
1,2,4-Trimethylbenzene	U		3.22	10.0	10	03/17/2021 18:25	WG1635431
1,3,5-Trimethylbenzene	U		1.04	10.0	10	03/17/2021 18:25	WG1635431
(S) Toluene-d8	99.8			80.0-120		03/17/2021 18:25	WG1635431
(S) 4-Bromofluorobenzene	103			77.0-126		03/17/2021 18:25	WG1635431
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2021 18:25	WG1635431

Sample Narrative:

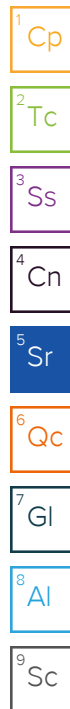
L1326327-07 WG1635431: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1670		33.3	100	1	03/16/2021 21:44	WG1635159
Residual Range Organics (RRO)	159	J	83.3	250	1	03/16/2021 21:44	WG1635159
(S) o-Terphenyl	64.3			31.0-160		03/16/2021 21:44	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	0.0650		0.0190	0.0500	1	03/13/2021 20:10	WG1634054
Acenaphthene	0.956		0.0190	0.0500	1	03/13/2021 20:10	WG1634054
Acenaphthylene	0.221		0.0171	0.0500	1	03/13/2021 20:10	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 20:10	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 20:10	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 20:10	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 20:10	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 20:10	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 20:10	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 20:10	WG1634054
Fluoranthene	0.0325	J	0.0270	0.100	1	03/13/2021 20:10	WG1634054
Fluorene	2.41		0.0169	0.0500	1	03/13/2021 20:10	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 20:10	WG1634054
Naphthalene	1.61		0.0917	0.250	1	03/13/2021 20:10	WG1634054
Phenanthrene	1.87		0.0180	0.0500	1	03/13/2021 20:10	WG1634054
Pyrene	0.0690		0.0169	0.0500	1	03/13/2021 20:10	WG1634054
1-Methylnaphthalene	65.5		0.0687	0.250	1	03/13/2021 20:10	WG1634054
2-Methylnaphthalene	65.5		0.0674	0.250	1	03/13/2021 20:10	WG1634054
2-Chloronaphthalene	0.273		0.0682	0.250	1	03/13/2021 20:10	WG1634054
(S) Nitrobenzene-d5	99.5			31.0-160		03/13/2021 20:10	WG1634054
(S) 2-Fluorobiphenyl	84.7			48.0-148		03/13/2021 20:10	WG1634054
(S) p-Terphenyl-d14	91.1			37.0-146		03/13/2021 20:10	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	03/17/2021 06:23	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:47	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	58.8	B J	31.6	100	1	03/16/2021 05:40	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		03/16/2021 05:40	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

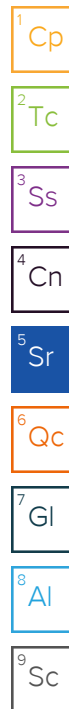
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 16:20	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 16:20	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 16:20	WG1635431
Xylenes, Total	U		0.174	3.00	1	03/17/2021 16:20	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 16:20	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 16:20	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 16:20	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 16:20	WG1635431
Isopropylbenzene	U		0.105	1.00	1	03/17/2021 16:20	WG1635431
n-Propylbenzene	U		0.0993	1.00	1	03/17/2021 16:20	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 16:20	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 16:20	WG1635431
(S) Toluene-d8	102			80.0-120		03/17/2021 16:20	WG1635431
(S) 4-Bromofluorobenzene	104			77.0-126		03/17/2021 16:20	WG1635431
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/17/2021 16:20	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		33.3	100	1	03/16/2021 22:04	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 22:04	WG1635159
(S) o-Terphenyl	74.2			31.0-160		03/16/2021 22:04	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	03/13/2021 20:30	WG1634054
Acenaphthene	U		0.0190	0.0500	1	03/13/2021 20:30	WG1634054
Acenaphthylene	U		0.0171	0.0500	1	03/13/2021 20:30	WG1634054
Benzo(a)anthracene	U		0.0203	0.0500	1	03/13/2021 20:30	WG1634054
Benzo(a)pyrene	U		0.0184	0.0500	1	03/13/2021 20:30	WG1634054
Benzo(b)fluoranthene	U		0.0168	0.0500	1	03/13/2021 20:30	WG1634054
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	03/13/2021 20:30	WG1634054
Benzo(k)fluoranthene	U		0.0202	0.0500	1	03/13/2021 20:30	WG1634054
Chrysene	U		0.0179	0.0500	1	03/13/2021 20:30	WG1634054
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	03/13/2021 20:30	WG1634054
Fluoranthene	U		0.0270	0.100	1	03/13/2021 20:30	WG1634054
Fluorene	U		0.0169	0.0500	1	03/13/2021 20:30	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	03/13/2021 20:30	WG1634054
Naphthalene	U		0.0917	0.250	1	03/13/2021 20:30	WG1634054
Phenanthrene	0.0197	J	0.0180	0.0500	1	03/13/2021 20:30	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	03/13/2021 20:30	WG1634054
1-Methylnaphthalene	0.0688	U	0.0687	0.250	1	03/13/2021 20:30	WG1634054
2-Methylnaphthalene	0.0789	U	0.0674	0.250	1	03/13/2021 20:30	WG1634054
2-Chloronaphthalene	U		0.0682	0.250	1	03/13/2021 20:30	WG1634054
(S) Nitrobenzene-d5	102			31.0-160		03/13/2021 20:30	WG1634054
(S) 2-Fluorobiphenyl	94.2			48.0-148		03/13/2021 20:30	WG1634054
(S) p-Terphenyl-d14	112			37.0-146		03/13/2021 20:30	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	4.56	J	2.99	6.00	1	03/17/2021 06:26	WG1635078
Lead,Dissolved	U		2.99	6.00	1	03/20/2021 14:50	WG1637633

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/16/2021 06:04	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		03/16/2021 06:04	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

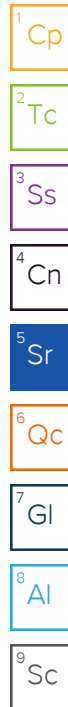
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 16:39	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 16:39	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 16:39	WG1635431
Xylenes, Total	U		0.174	3.00	1	03/17/2021 16:39	WG1635431
Methyl tert-butyl ether	U		0.101	1.00	1	03/17/2021 16:39	WG1635431
Naphthalene	U		1.00	5.00	1	03/17/2021 16:39	WG1635431
1,2-Dibromoethane	U		0.126	1.00	1	03/17/2021 16:39	WG1635431
1,2-Dichloroethane	U		0.0819	1.00	1	03/17/2021 16:39	WG1635431
Isopropylbenzene	U		0.105	1.00	1	03/17/2021 16:39	WG1635431
n-Propylbenzene	U		0.0993	1.00	1	03/17/2021 16:39	WG1635431
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/17/2021 16:39	WG1635431
1,3,5-Trimethylbenzene	U		0.104	1.00	1	03/17/2021 16:39	WG1635431
(S) Toluene-d8	103			80.0-120		03/17/2021 16:39	WG1635431
(S) 4-Bromofluorobenzene	105			77.0-126		03/17/2021 16:39	WG1635431
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/17/2021 16:39	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		33.3	100	1	03/16/2021 22:24	WG1635159
Residual Range Organics (RRO)	U		83.3	250	1	03/16/2021 22:24	WG1635159
(S) o-Terphenyl	70.5			31.0-160		03/16/2021 22:24	WG1635159

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0380	0.100	2	03/13/2021 20:51	WG1634054
Acenaphthene	U		0.0380	0.100	2	03/13/2021 20:51	WG1634054
Acenaphthylene	U		0.0342	0.100	2	03/13/2021 20:51	WG1634054
Benzo(a)anthracene	U		0.0406	0.100	2	03/13/2021 20:51	WG1634054
Benzo(a)pyrene	U		0.0368	0.100	2	03/13/2021 20:51	WG1634054
Benzo(b)fluoranthene	U		0.0336	0.100	2	03/13/2021 20:51	WG1634054
Benzo(g,h,i)perylene	U		0.0368	0.100	2	03/13/2021 20:51	WG1634054
Benzo(k)fluoranthene	U		0.0404	0.100	2	03/13/2021 20:51	WG1634054
Chrysene	U		0.0358	0.100	2	03/13/2021 20:51	WG1634054
Dibenz(a,h)anthracene	U		0.0320	0.100	2	03/13/2021 20:51	WG1634054
Fluoranthene	U		0.0540	0.200	2	03/13/2021 20:51	WG1634054
Fluorene	U		0.0338	0.100	2	03/13/2021 20:51	WG1634054
Indeno(1,2,3-cd)pyrene	U		0.0316	0.100	2	03/13/2021 20:51	WG1634054
Naphthalene	U		0.183	0.500	2	03/13/2021 20:51	WG1634054
Phenanthrene	U		0.0360	0.100	2	03/13/2021 20:51	WG1634054



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0338	0.100	2	03/13/2021 20:51	WG1634054
1-Methylnaphthalene	U		0.137	0.500	2	03/13/2021 20:51	WG1634054
2-Methylnaphthalene	U		0.135	0.500	2	03/13/2021 20:51	WG1634054
2-Chloronaphthalene	U		0.136	0.500	2	03/13/2021 20:51	WG1634054
(S) Nitrobenzene-d5	86.3			31.0-160		03/13/2021 20:51	WG1634054
(S) 2-Fluorobiphenyl	76.8			48.0-148		03/13/2021 20:51	WG1634054
(S) p-Terphenyl-d14	87.9			37.0-146		03/13/2021 20:51	WG1634054

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	50.6	B_J	31.6	100	1	03/16/2021 02:52	WG1635114
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		03/16/2021 02:52	WG1635114

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/17/2021 11:54	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 11:54	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 11:54	WG1635431
Total Xylenes	U		0.174	3.00	1	03/17/2021 11:54	WG1635431
(S) Toluene-d8	104			80.0-120		03/17/2021 11:54	WG1635431
(S) 4-Bromofluorobenzene	106			77.0-126		03/17/2021 11:54	WG1635431
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2021 11:54	WG1635431

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Method Blank (MB)

(MB) R3631647-1 03/17/21 05:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Lead	U		2.99	6.00

Laboratory Control Sample (LCS)

(LCS) R3631647-2 03/17/21 05:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1000	969	96.9	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3632979-1 03/20/21 13:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Lead,Dissolved	U		2.99	6.00

Laboratory Control Sample (LCS)

(LCS) R3632979-2 03/20/21 13:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead,Dissolved	1000	928	92.8	80.0-120	

L1325960-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1325960-10 03/20/21 13:36 • (MS) R3632979-4 03/20/21 13:41 • (MSD) R3632979-5 03/20/21 13:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead,Dissolved	1000	U	949	944	94.9	94.4	1	75.0-125			0.555	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3632169-2 03/16/21 01:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	51.2	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3632169-1 03/16/21 00:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5820	106	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			110	78.0-120	

L1326327-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1326327-01 03/16/21 04:04 • (MS) R3632169-3 03/16/21 10:52 • (MSD) R3632169-4 03/16/21 11:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	2560	7880	8240	96.7	103	1	10.0-155			4.47	21
(S) a,a,a-Trifluorotoluene(FID)					121	121		78.0-120	J1	J1		

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3632522-3 03/18/21 19:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3632522-1 03/18/21 18:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4690	85.3	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			109	78.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3632217-3 03/17/21 11:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichloroethane	U		0.0819	1.00
Ethylbenzene	U		0.137	1.00
Isopropylbenzene	U		0.105	1.00
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Toluene	U		0.278	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3632217-1 03/17/21 09:56 • (LCSD) R3632217-2 03/17/21 10:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.80	4.65	96.0	93.0	70.0-123			3.17	20
1,2-Dibromoethane	5.00	4.54	4.44	90.8	88.8	80.0-122			2.23	20
1,2-Dichloroethane	5.00	4.90	4.92	98.0	98.4	70.0-128			0.407	20
Ethylbenzene	5.00	4.93	4.86	98.6	97.2	79.0-123			1.43	20
Isopropylbenzene	5.00	5.00	4.74	100	94.8	76.0-127			5.34	20
Methyl tert-butyl ether	5.00	5.02	4.52	100	90.4	68.0-125			10.5	20
Naphthalene	5.00	4.17	4.19	83.4	83.8	54.0-135			0.478	20
n-Propylbenzene	5.00	4.82	4.71	96.4	94.2	77.0-124			2.31	20
Toluene	5.00	4.92	4.77	98.4	95.4	79.0-120			3.10	20
1,2,4-Trimethylbenzene	5.00	4.85	4.67	97.0	93.4	76.0-121			3.78	20
1,3,5-Trimethylbenzene	5.00	4.76	4.72	95.2	94.4	76.0-122			0.844	20
Xylenes, Total	15.0	15.1	13.2	101	88.0	79.0-123			13.4	20
(S) Toluene-d8				103	101	80.0-120				
(S) 4-Bromofluorobenzene				104	103	77.0-126				
(S) 1,2-Dichloroethane-d4				107	106	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3632664-2 03/18/21 23:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichloroethane	U		0.0819	1.00
Ethylbenzene	U		0.137	1.00
Isopropylbenzene	U		0.105	1.00
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Toluene	U		0.278	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	101			80.0-120
(S) 4-Bromofluorobenzene	96.4			77.0-126
(S) 1,2-Dichloroethane-d4	112			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3632664-1 03/18/21 20:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.11	102	70.0-123	
1,2-Dibromoethane	5.00	4.66	93.2	80.0-122	
1,2-Dichloroethane	5.00	5.64	113	70.0-128	
Ethylbenzene	5.00	4.55	91.0	79.0-123	
Isopropylbenzene	5.00	4.56	91.2	76.0-127	
Methyl tert-butyl ether	5.00	5.00	100	68.0-125	
Naphthalene	5.00	4.05	81.0	54.0-135	
n-Propylbenzene	5.00	5.15	103	77.0-124	
Toluene	5.00	4.81	96.2	79.0-120	
1,2,4-Trimethylbenzene	5.00	5.01	100	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.05	101	76.0-122	
Xylenes, Total	15.0	13.5	90.0	79.0-123	
(S) Toluene-d8			99.5	80.0-120	
(S) 4-Bromofluorobenzene			99.7	77.0-126	
(S) 1,2-Dichloroethane-d4			115	70.0-130	

1
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Method Blank (MB)

(MB) R3631484-1 03/16/21 18:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		33.3	100
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	68.5			31.0-160

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3631484-2 03/16/21 19:01 • (LCSD) R3631484-3 03/16/21 19:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1200	1080	80.0	72.0	50.0-150			10.5	20
(S) o-Terphenyl				73.5	83.0	31.0-160				

1Cp

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5Sr

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Method Blank (MB)

(MB) R3630628-3 03/13/21 14:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	94.0			31.0-160
(S) 2-Fluorobiphenyl	90.0			48.0-148
(S) p-Terphenyl-d14	115			37.0-146

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3630628-1 03/13/21 14:09 • (LCSD) R3630628-2 03/13/21 14:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	1.97	1.94	98.5	97.0	67.0-150			1.53	20
Acenaphthene	2.00	1.90	1.97	95.0	98.5	65.0-138			3.62	20
Acenaphthylene	2.00	2.18	2.18	109	109	66.0-140			0.000	20
Benzo(a)anthracene	2.00	2.04	1.98	102	99.0	61.0-140			2.99	20
Benzo(a)pyrene	2.00	2.00	1.91	100	95.5	60.0-143			4.60	20
Benzo(b)fluoranthene	2.00	1.97	1.88	98.5	94.0	58.0-141			4.68	20
Benzo(g,h,i)perylene	2.00	1.83	1.82	91.5	91.0	52.0-153			0.548	20
Benzo(k)fluoranthene	2.00	1.95	1.86	97.5	93.0	58.0-148			4.72	20
Chrysene	2.00	1.96	1.91	98.0	95.5	64.0-144			2.58	20
Dibenz(a,h)anthracene	2.00	1.85	1.72	92.5	86.0	52.0-155			7.28	20
Fluoranthene	2.00	1.91	1.91	95.5	95.5	69.0-153			0.000	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3630628-1 03/13/21 14:09 • (LCSD) R3630628-2 03/13/21 14:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.00	2.02	100	101	64.0-136			0.995	20
Indeno(1,2,3-cd)pyrene	2.00	1.96	1.88	98.0	94.0	54.0-153			4.17	20
Naphthalene	2.00	1.95	1.98	97.5	99.0	61.0-137			1.53	20
Phenanthrene	2.00	1.98	1.97	99.0	98.5	62.0-137			0.506	20
Pyrene	2.00	2.03	2.06	102	103	60.0-142			1.47	20
1-Methylnaphthalene	2.00	1.99	2.07	99.5	103	66.0-142			3.94	20
2-Methylnaphthalene	2.00	1.88	1.97	94.0	98.5	62.0-136			4.68	20
2-Chloronaphthalene	2.00	1.86	1.93	93.0	96.5	64.0-140			3.69	20
(S) Nitrobenzene-d5				101	96.5	31.0-160				
(S) 2-Fluorobiphenyl				87.0	92.5	48.0-148				
(S) p-Terphenyl-d14				114	113	37.0-146				

L1326455-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1326455-01 03/13/21 21:11 • (MS) R3630628-4 03/13/21 21:31 • (MSD) R3630628-5 03/13/21 21:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	1.90	U	1.81	1.77	95.3	93.2	1	56.0-156			2.23	20
Acenaphthene	1.90	U	1.83	1.78	96.3	93.7	1	44.0-153			2.77	20
Acenaphthylene	1.90	U	2.03	1.96	107	103	1	53.0-150			3.51	20
Benzo(a)anthracene	1.90	U	1.83	1.80	96.3	94.7	1	47.0-151			1.65	20
Benzo(a)pyrene	1.90	U	1.71	1.70	90.0	89.5	1	45.0-146			0.587	20
Benzo(b)fluoranthene	1.90	U	1.71	1.69	90.0	88.9	1	43.0-142			1.18	20
Benzo(g,h,i)perylene	1.90	U	1.58	1.57	83.2	82.6	1	40.0-147			0.635	20
Benzo(k)fluoranthene	1.90	U	1.68	1.63	88.4	85.8	1	43.0-148			3.02	21
Chrysene	1.90	U	1.76	1.74	92.6	91.6	1	50.0-148			1.14	20
Dibenz(a,h)anthracene	1.90	U	1.45	1.47	76.3	77.4	1	37.0-151			1.37	20
Fluoranthene	1.90	U	1.78	1.75	93.7	92.1	1	56.0-157			1.70	20
Fluorene	1.90	U	1.90	1.83	100	96.3	1	48.0-148			3.75	20
Indeno(1,2,3-cd)pyrene	1.90	U	1.67	1.65	87.9	86.8	1	41.0-148			1.20	20
Naphthalene	1.90	U	1.86	1.82	97.9	95.8	1	10.0-160			2.17	20
Phenanthrene	1.90	U	1.83	1.81	96.3	95.3	1	47.0-147			1.10	20
Pyrene	1.90	U	1.98	1.91	104	101	1	51.0-148			3.60	20
1-Methylnaphthalene	1.90	U	1.95	1.90	103	100	1	21.0-160			2.60	20
2-Methylnaphthalene	1.90	U	1.83	1.79	96.3	94.2	1	31.0-160			2.21	20
2-Chloronaphthalene	1.90	U	1.79	1.73	94.2	91.1	1	52.0-148			3.41	20
(S) Nitrobenzene-d5					95.3	91.6		31.0-160				
(S) 2-Fluorobiphenyl					91.6	88.4		48.0-148				
(S) p-Terphenyl-d14					108	107		37.0-146				

1Cp

2Tc

3Ss

4Cn

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

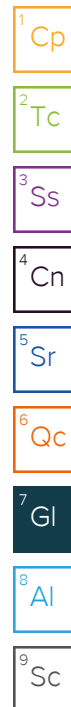
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.



ACCREDITATIONS & LOCATIONS

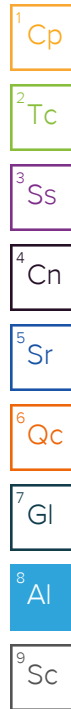
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Arcadis - Chevron - OR						Billing Information: Accounts Payable 630 Plaza Dr STE 600 Highlands Ranch, CO 80129						Fres Chk		Analysis / Container / Preservative										Chain of Custody		Page 1 of 1															
111 SW Columbia St Portland, OR 97201																								Pace Analytical® National Center for Testing & Innovation																	
Report to: Stephen Ahlquist						Email To: Stephen.Ahlquist@arcadis.com;environmentD																		12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf																	
Project Description: 1001782						City/State Collected: Mcminnville Oregon						Please Circle: PT MT CT ET																													
Phone: 503-785-9405						Client Project # 30063816						Lab Project # CHEVARCOR-1001782																													
Collected by (print): Foster Kaelzel						Site/Facility ID # SE CHANDLER AVE & SE DAVIS						P.O. #																													
Collected by (signature): 						Rush? (Lab MUST Be Notified) ☐ Same Day ☒ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day						Quote #																													
Immediately Packed on Ice N ☐ Y ☒						Date Results Needed						No. of Cntrs																													
Sample ID						Comp/Grab		Matrix *		Depth		Date		Time																											
MW-1-210308						G		GW				3/8/21		1450		12		X		X		X		X		X		X		-		-01									
MW-2-210308						G		GW				3/8/21		1613		12		X		X		X		X		X		X		-		-02									
MW-3-210308						G		GW				3/8/21		1407		12		X		X		X		X		X		X		-		-03									
MW-4A-210308						G		GW				3/8/21		1246		12		X		X		X		X		X		X		-		-04									
MW-5-210308						G		GW				3/8/21		1532		12		X		X		X		X		X		X		-		-05									
MW-6-210308						G		GW				3/8/21		1326		12		X		X		X		X		X		X		-		-06									
MW-7-210308						G		GW				3/8/21		1652		12		X		X		X		X		X		X		-		-07									
MW-8-210308						G		GW				3/8/21		1731		12		X		X		X		X		X		X		-		-08									
MW-9-210308						G		GW				3/8/21		1818		12		X		X		X		X		X		X		-		-09									
TB01-210308						G		GW				3/8/21		0800		12		X										X		-		-10									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____						Remarks:						pH _____ Temp _____ Flow _____ Other _____						Samples returned via: ____ UPS ☒ FedEx ____ Courier _____						Tracking # 9344 1402 1285 / 9344 1413 7357						Sample Receipt Checklist COC Seal Present/Intact: ____ NP ☒ Y ☐ N COC Signed/Accurate: ____ Y ☒ Y ☐ N Bottles arrive intact: ____ Y ☒ Y ☐ N Correct bottles used: ____ Y ☒ Y ☐ N Sufficient volume sent: ____ Y ☒ Y ☐ N If Applicable VOA Zero Headspace: ____ Y ☒ Y ☐ N Preservation Correct/Checked: ____ Y ☒ Y ☐ N RAD Screen <0.5 mR/hr: ____ Y ☒ Y ☐ N											
Relinquished by : (Signature) 						Date: 3/11/21						Time: 1530						Received by: (Signature) Shipped via Fed EX						Trip Blank Received: Yes / No 2 ☒ No ☐ ____ / MeOH TBR						Temp: 10 °C Bottles Received: 108						If preservation required by Login: Date/Time					
Relinquished by : (Signature)						Date:						Time:						Received by: (Signature)						Temp: 03/12/21 °C Bottles Received: 09:00						Hold:						Condition: NCF / OK					