Kennedy Jenks

7 January 2025

Ms. Danielle Gibson
Washington State Department of Ecology
PO Box 47775
Olympia, Washington 98504-7775

Subject: 2024 Long-Term Groundwater Monitoring Report
Former Strebor Property, Cleanup Site ID 2615, Facility/Site ID 34822454
Tetra Pak Vancouver
Vancouver, Washington
Ecology VCP File No. SW0377
KJ 2165020*24

Dear Ms. Gibson:

This letter report summarizes the results of the 2024 long-term groundwater monitoring event conducted by Blaine Tech Services (BTS) on 6 November 2024 at the former Strebor property (Site). The Site is located at 3125 Thompson Avenue in Vancouver, Washington (see Figure 1).

Investigation and cleanup activities have been conducted at the Site under the Voluntary Cleanup Program (VCP) (VCP No. SW0377) through the Washington State Department of Ecology (Ecology). Cleanup activities consisted of impacted soil removal and an engineered asphalt cap and cover. A restrictive covenant was recorded for the Site on 7 August 2012, and in December 2012, Ecology determined that no further remedial action is necessary at the Site (Ecology 2012). Ecology's NFA determination was based on characterization of the Site, establishment of cleanup standards, selection, and implementation of the cleanup action, post cleanup institutional and engineering controls, and long-term groundwater monitoring. Post-cleanup controls and monitoring included compliance with institutional and engineered controls (e.g., restrictions on the use of groundwater and maintenance of the asphalt cap) and performance of confirmational monitoring.

The purpose of long-term groundwater monitoring at the Site is to confirm the effectiveness of the implemented remedy and to assess that the remedy remains protective of groundwater. Groundwater monitoring was implemented in first quarter 2009 and is ongoing in general accordance with the *Long-Term Groundwater Monitoring Plan* (Long-Term Monitoring Plan; Kennedy/Jenks Consultants, Inc. 2009). Under the long-term monitoring plan, groundwater monitoring events are conducted every 18 months. Seven monitoring wells (MW-1 through MW-3 and MW-5 through MW-8) are part of the long-term monitoring plan. Monitoring well locations are shown on Figure 2.

Monitoring well MW-3 was originally installed as a stickup well located in a parking and truck loading area of the parking lot (Figure 2). In the past, a vehicle collided with MW-3, bending the well casing. In 2018, Tetra Pak converted MW-3 to a flush-mount well to reduce the risk of future vehicle collisions. Due to the modifications, the top of casing elevation is not currently available.

The MW-3 well modifications and a potential well obstruction were previously noted during the 2019 and 2021 sampling events. During the 2021 sampling event, a closed-circuit television (CCTV) survey of well MW-3 was performed to assess the current condition of well MW-3 following conversion to a flush mounted well. The CCTV survey confirmed that the well casing is damaged approximately 42.5 feet below ground surface. Due to this obstruction, standard groundwater sampling equipment cannot be used to access or sample well MW-3. Due to the damaged casing, Tetra Pak proposed that sampling of well MW-3 be discontinued, and the well be decommissioned in accordance with WAC 173-160-460. Neither pentachlorophenol nor isomers of tetrachlorophenol and trichlorophenol have been reported above laboratory reporting limits in the past six sampling events that included MW-3.

2024 Field Activities

Activities completed during the 2024 groundwater monitoring event were conducted in general accordance with the Long-Term Monitoring Plan. These activities consisted of:

- Measuring depths to groundwater on 6 November 2024 in monitoring wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8. Depth to groundwater measured at monitoring well MW-3 could not be converted to groundwater elevation as the casing had been modified and the current top of casing elevation was not available.
- Collecting groundwater samples from five monitoring wells using low flow methodology with a bladder pump (MW-2, MW-5, MW-6, MW-7, and MW-8) on 6 November 2024. Insufficient water was available in monitoring well MW-1 for sampling. The groundwater samples were collected following purging the wells and stabilization of temperature, pH, conductivity, and dissolved oxygen in the purge water.
- Submitting groundwater samples to APEX Laboratories in Tigard Oregon for analysis of pentachlorophenol and all isomers of tetrachlorophenol and trichlorophenol using U.S. Environmental Protection Agency (EPA) Method 8270D.

Groundwater Elevations

Groundwater was measured at depths between 4.80 (monitoring well MW-2) and 7.92 feet (monitoring well MW-8) above mean sea level (MSL). The results of groundwater level measurements are summarized in Table 1 and shown on Figure 2. The groundwater elevations in the monitoring wells were within 3.12 foot of each other, with the highest groundwater elevation recorded at MW-8.

Groundwater Sampling Results

Groundwater analytical results from the November 2024 event and previous sampling events are summarized in Table 2. A copy of the laboratory analytical report from the November 2024

event is included in Attachment A. Copies of field forms (e.g., purge and sample forms) are included in Attachment B.

Based on the analytical results for the November 2024 sampling event, pentachlorophenol, tetrachlorophenol, and trichlorophenol compounds were not detected above the laboratory reporting limits in the samples collected. These compounds have not been detected in groundwater samples collected during the previous six sampling events.

Data Quality

A duplicate groundwater sample (DUP-20241106) was collected from monitoring well MW-2 for analysis of pentachlorophenol, tetrachlorophenol, and trichlorophenol. These constituents were not detected above the laboratory reporting limits in the primary or duplicate sample.

Kennedy/Jenks Consultants, Inc. reviewed the laboratory quality control data included with the laboratory report and found no laboratory data quality issues associated with the 6 November 2024 sampling event. A data validation report is included in Attachment A.

Conclusion

The No Further Action (NFA) determination for the Site, provided on 4 March 2013, terminated the governing Voluntary Cleanup Program agreement (#SW0377). The NFA further states that there are no known sources of PCE and TCE at the Site, and the data suggested that the impacts were likely from an off-Site source, namely the Cadet Manufacturing site (Facility/Site# 85381664), located about 2,000 feet southwest of Tetra Pak. Subsequent groundwater monitoring has shown a decrease of PCE and TCE to below cleanup levels in on-Site wells. As such, Ecology no longer considers the Site to be impacted by Cadet Manufacturing.

The Site Environmental Covenant (Covenant) contains land use restrictions, including prohibiting use of groundwater for drinking water purposes. Additionally, the Covenant requires written approval from Ecology prior to disturbing existing engineering controls. The Covenant describes groundwater monitoring to confirm the implemented remedial action protects groundwater. Groundwater monitoring results indicate remedial actions at the Site are effective at protecting groundwater quality. Constituents of concern (COCs) have not been detected above laboratory reporting limits since 2010. Ecology's 5-year review was conducted in late 2017 for the Site and concluded that "remedial actions conducted at the Site continue to be protective of the human health and the environment" (Ecology 2018). Long term monitoring has been successfully completed and future sampling activities are no longer needed to confirm remedy effectiveness. Unless Ecology requests otherwise, Tetra Pak plans to cease long term monitoring at the Site. With Ecology's agreement, Tetra Pak proposes that Site monitoring wells (MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8) be decommissioned in accordance with WAC 173-160-381 requirements.

Please feel free to call Shaelyn Thomas at (503) 423-4033 with any questions regarding this report.

Very truly yours,

Kennedy/Jenks Consultants, Inc.

Shaelyn Thomas
Project Manager

Michael Juszynski
Principal

Attachments:

Table 1 Water Level Measurements
Table 2 Summary of SVOC Groundwater Analytical Results
Figure 1 Site Vicinity Map
Figure 2 Groundwater Elevation Map – 6 November 2024

Attachment A Laboratory Analytical and Data Validation Reports
Attachment B Groundwater Sampling and Purge Forms

cc: Larry Price, Tetra Pak
Robert B. Lowry, Kell Alterman & Runstein, LLP

References

Kennedy/Jenks Consultants, Inc. 2009. Long-Term Groundwater Monitoring Plan, Former Strebor Site. 9 January 2009.

Washington State Department of Ecology. 2007. Opinion under WAC 173-340-515(5) on Remedial Action(s) for the Tetra Pak Hazardous Waste Site. Washington State Department of Ecology. 5 April 2007.

Washington State Department of Ecology. 2012. No Further Action at the Following Site: Site Name: Tetra Pak; Site Address: 3125 Thompson Avenue, Vancouver; Facility/Site No.; 34822454; Cleanup Site ID No.: 2615; VCP Project No.: SW0377. Washington State Department of Ecology. 27 December 2012.

Washington State Department of Ecology. 2018. Periodic Review Report Draft: Tetra Pak, Facility Site ID# 34822454, Cleanup Site ID#: 2615. Washington State Department of Ecology. July 2018.

Tables

Table 1: Water Level Measurements

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Well	Date	TOC Elevation (ft msl)[a]	Depth to Water (ft)[b]	Water Elevation (ft msl)[c]
MW-1	02/19/02	54.40	48.62	5.78
	02/27/02		47.73	6.67
	03/25/02		48.78	5.62
	04/18/02		43.55	10.85
	05/28/02		45.70	8.70
	08/19/02		49.45	4.95
	11/18/02		49.64	4.76
	02/25/03		48.23	6.17
	06/15/06		42.38	12.02
	07/06/06		48.27	6.13
	12/28/06		45.36	9.04
	09/23/08		DRY	DRY
	01/06/09		45.04	9.36
	04/28/09		45.01	9.39
	02/16/10		48.60	5.80
	07/13/10		47.46	6.94
	03/19/12		44.01	10.39
	09/30/13		49.50	4.90
	07/28/15		DRY	DRY
	01/31/17		47.72	6.68
	07/17/19		49.09	5.31
	07/07/21		DRY	DRY
	01/31/23		DRY	DRY
	11/06/24		49.54	4.86
MW-2	10/08/01	51.44	48.10	3.34
	02/19/02		45.73	5.71
	02/27/02		44.72	6.72
	03/25/02		45.80	5.64
	04/18/02		40.55	10.89
	05/28/02		42.78	8.66
	08/19/02		46.55	4.89
	11/18/02		46.73	4.71
	02/25/03		45.32	6.12
	06/15/06		39.47	11.97
	07/06/06		45.35	6.09
	12/28/06		42.37	9.07
	09/23/08		48.04	3.40
	01/06/09		42.09	9.35
	04/28/09		42.07	9.37
	02/16/10		45.71	5.73
	07/13/10		44.56	6.88
	03/19/12		41.07	10.37
	09/30/13		46.55	4.89
	07/28/15		47.22	4.22
	01/31/17		44.82	6.62
	07/17/19		46.21	5.23
	07/07/21		45.93	5.51
	01/31/23		46.45	4.99
	11/06/24		46.64	4.80
MW-3	10/08/01	53.38	50.28	3.10
	02/19/02		47.53	5.85
	02/27/02		46.70	6.68
	03/25/02		47.79	5.59
	04/18/02		42.78	10.60
	05/28/02		44.68	8.70
	08/19/02		48.43	4.95
	11/18/02		48.63	4.75

Table 1: Water Level Measurements

Kennedy Jenks

Well	Date	TOC Elevation (ft msl)[a]	Depth to Water (ft)[b]	Water Elevation (ft msl)[c]
MW-3 (cont)	02/24/03		47.23	6.15
	06/15/06		41.32	12.06
	07/06/06		47.28	6.10
	12/28/06		44.37	9.01
	09/23/08		49.97	3.41
	01/06/09		44.01	9.37
	04/28/09		43.99	9.39
	02/16/10		47.61	5.77
	07/13/10		46.45	6.93
	03/19/12		43.00	10.38
	09/30/13		48.49	4.89
	07/28/15		49.10	4.28
	01/31/17		46.43	6.95
	07/17/19		NM	NM
	07/07/21		NM	NM
	01/31/23		NM	NM
	11/06/24		NM	NM
MW-5	10/08/01	51.17	48.05	3.12
	02/19/02		45.52	5.65
	02/27/02		44.42	6.75
	03/25/02		45.50	5.67
	04/18/02		40.24	10.93
	05/28/02		42.46	8.71
	08/19/02		46.25	4.92
	11/18/02		46.42	4.75
	02/25/03		45.02	6.15
	06/15/06		39.19	11.98
	07/06/06		45.02	6.15
	12/28/06		42.07	9.10
	09/23/08		47.75	3.42
	01/06/09		41.76	9.41
	04/28/09		41.74	9.43
	02/16/10		45.39	5.78
	07/13/10		44.26	6.91
	03/19/12		40.77	10.40
	09/30/13		46.28	4.89
	07/28/15		46.80	4.37
	01/31/17		44.52	6.65
	07/17/19		45.90	5.27
	07/07/21		45.57	5.60
	01/31/23		46.15	5.02
	11/06/24		46.33	5.11
MW-6	04/18/02	49.94	38.92	11.02
	05/28/02		41.45	8.49
	08/19/02		44.92	5.02
	11/18/02		45.10	4.84
	02/24/03		43.73	6.21
	06/15/06		37.78	12.16
	07/06/06		43.75	6.19
	12/28/06		40.81	9.13
	09/23/08		46.44	3.50
	01/06/09		40.50	9.44
	04/28/09		40.44	9.50
	02/16/10		45.05	4.89
	07/13/10		42.91	7.03
	03/19/12		39.55	10.39
	09/30/13		44.96	4.98

Table 1: Water Level Measurements

Kennedy Jenks

Well	Date	TOC Elevation (ft msl)[a]	Depth to Water (ft)[b]	Water Elevation (ft msl)[c]
MW-6 (cont)	07/28/15		45.60	4.34
	01/31/17		43.17	6.77
	07/17/19		44.57	5.37
	07/07/21		44.24	5.70
	01/31/23		44.78	5.16
	11/06/24		45.06	6.38
MW-7	08/07/02	49.76	44.39	5.37
	08/19/02		44.80	4.96
	11/18/02		44.97	4.79
	02/25/03		43.55	6.21
	09/23/08		46.31	3.45
	01/06/09		40.31	9.45
	04/28/09		40.28	9.48
	02/16/10		43.95	5.81
	07/13/10		42.77	6.99
	03/19/12		39.29	10.47
	09/30/13		44.84	4.92
	07/28/15		NM[d]	NM
	01/31/17		NM	NM
	07/17/19		44.41	5.35
	07/07/21		44.14	5.62
	01/31/23		44.67	5.09
	11/06/24		44.85	6.59
MW-8	02/25/03	48.42	42.18	6.24
	06/15/06		36.35	12.07
	07/06/06		42.22	6.20
	12/28/06		39.32	9.10
	09/23/08		44.95	3.47
	01/06/09		38.98	9.44
	04/28/09		38.96	9.46
	02/16/10		42.64	5.78
	07/13/10		41.40	7.02
	03/19/12		37.96	10.46
	09/30/13		43.45	4.97
	07/28/15		44.10	4.32
	01/31/17		41.68	6.74
	07/17/19		43.04	5.38
	07/07/21		42.79	5.63
	01/31/23		43.25	5.17
	11/06/24		43.52	7.92

Notes:

(a) Top of casing (TOC) elevations reported in feet (ft) above mean sea level (msl).
(b) Depth to water measured in feet below TOC.
(c) Water elevation calculated as the difference between the TOC elevation and the depth to water.
(d) NM = Not measured

Table 2: Summary of SVOC Groundwater Analytical Results

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Monitoring Well Number	Date Sampled	Semivolatile Organic Compounds (µg/l)[a,b] Pentachloro-phenol µg/l	2,3,4,6 Tetrachloro-phenol µg/l	2,3,5,6 Tetrachloro -phenol µg/l	2,4,5 Trichloro-phenol µg/l	2,4,6 Trichloro-phenol µg/l
MW-1	04/19/02	<0.8[c]	NA[d]	NA	NA	NA
	08/21/02	**1.48**	NA	NA	<0.8	<0.8
	11/19/02	**1.67**	NA	NA	<1.6	<1.6
	02/25/03	<0.19	NA	NA	<0.19	<0.19
	07/06/06	**1.2**	<0.10	**0.078 J**[e]	<0.051	<0.083
	12/28/06	0.68	**0.033 J**	**0.044 J**	<0.0083	<0.0097
	01/06/09	<0.33	<0.33	<0.19	<0.19	<0.29
	04/28/09	<0.36	<0.36	<0.20	<0.20	<0.30
	07/13/10	**0.78 B / 1.3 B**[f, g]	**0.046 J / 0.071 J**[f]	**0.019 J / 0.034 J**[f]	<0.0094 / <0.010[f]	<0.013 / <0.014[f]
	03/19/12	<0.943	<0.377	<0.377	<0.472	<0.472
	09/30/13	NS[h]	NS	NS	NS	NS
	07/28/15	NS	NS	NS	NS	NS
	01/31/17	NS	NS	NS	NS	NS
	07/17/19	NS	NS	NS	NS	NS
	07/07/21	NS	NS	NS	NS	NS
	01/31/23	NS	NS	NS	NS	NS
	11/06/24	NS	NS	NS	NS	NS
MW-2	04/18/02	<0.8	NA	NA	NA	NA
	08/21/02	<0.8	NA	NA	<0.8	<0.8
	11/19/02	<0.8	NA	NA	<0.8	<0.8
	02/25/03	<0.19	NA	NA	<0.19	<0.19
	07/06/06	<0.11	<0.11	<0.056	<0.055	<0.089
	12/28/06	**0.15 J**	<0.0089	<0.019	<0.0091	<0.011
	01/06/09	<0.33	<0.33	<0.19	<0.19	<0.29
	07/13/10	**0.055 J B**	<0.0083	<0.012	<0.0096	<0.014
	03/19/12	<0.935	<0.374	<0.374	<0.467	<0.467
	09/30/13	<0.472	<0.189	<0.189	<0.189	<0.189
	07/28/15	<0.476	<0.190	<0.190	<0.190	<0.190
	01/31/17	<0.200	<0.100	<0.100	<0.100	<0.100
	07/17/19	<0.0943	<0.0472	<0.0472	<0.0472	<0.0472
	07/07/21	<0.0962/<0.400[f]	<0.0481/<0.200[f]	<0.0481/<0.200[f]	<0.0481/<0.200[f]	<0.0481/<0.200[f]
	01/31/23	<0.313	<0.231	<10.0 R[n]	<0.109	<0.100
	11/06/24	<0.194/<0.192[f]	<0.0971/<0.0962[f]	<0.0971/<0.0962[f]	<0.0971/<0.0962[f]	<0.0971/<0.0962[f]
MW-3	04/18/02	<0.8	NA	NA	NA	NA
	08/20/02	<0.8	NA	NA	<0.8	<0.8
	11/18/02	<0.8	NA	NA	<1.6	<1.6
	02/24/03	**0.254**	NA	NA	<0.189	<0.189
	07/06/06	<0.11	<0.11	<0.055	<0.054	<0.087
	12/28/06	**0.13 J**	<0.0081	<0.018	<0.0083	<0.0098
	01/06/09	<0.34	<0.34	<0.19	<0.19	<0.29
	07/13/10	<0.011	<0.0083	<0.012	<0.0096	<0.014
	03/19/12	<0.943	<0.377	<0.377	<0.472	<0.472
	09/30/13	<0.472/<0.476[f]	<0.189/<0.190[f]	<0.189/<0.190[f]	<0.189/<0.190[f]	<0.189/<0.190[f]
	07/28/15	<0.476	<0.190	<0.190	<0.190	<0.190
	01/31/17	<0.190	<0.0952	<0.0952	<0.0952	<0.0952
	07/17/19	NS	NS	NS	NS	NS
	07/07/21	NS	NS	NS	NS	NS
	01/31/23	NS	NS	NS	NS	NS
	11/06/24	NS	NS	NS	NS	NS
MW-5	04/19/02	<0.8	NA	NA	NA	NA
	08/21/02	<0.8	NA	NA	<0.8	<0.8
	11/19/02	<0.8	NA	NA	<1.6	<1.6
	02/25/03	<0.189	NA	NA	<0.189	<0.189
	07/06/06	<0.11	<0.11	<0.053	<0.052	<0.083
	12/28/06	<0.013	<0.0081	<0.018	<0.0083	<0.0098
	01/06/09	<0.33	<0.33	<0.19	<0.19	<0.29
	07/13/10	<0.011	<0.0082	<0.012	<0.0094	<0.013
	03/19/12	<0.935/<0.935[f]	<0.374/<0.374[f]	<0.374/<0.374[f]	<0.467/<0.467[f]	<0.467/<0.467[f]
	09/30/13	<0.472	<0.189	<0.189	<0.189	<0.189
	07/28/15	<0.476	<0.190	<0.190	<0.190	<0.190
	01/31/17	<0.204/<0.202[f]	<0.102/<0.101[f]	<0.102/<0.101[f]	<0.102/<0.101[f]	<0.102/<0.101[f]
	07/17/19	<0.115	<0.0575	<0.0575	<0.0575	<0.0575

Table 2: Summary of SVOC Groundwater Analytical Results

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Monitoring Well Number	Date Sampled	Semivolatile Organic Compounds (µg/l)[a,b] Pentachloro-phenol µg/l	2,3,4,6 Tetrachloro-phenol µg/l	2,3,5,6 Tetrachloro-phenol µg/l	2,4,5 Trichloro-phenol µg/l	2,4,6 Trichloro-phenol µg/l
MW-5	07/07/21	<0.0962	<0.0481	<0.0481	<0.0481	<0.0481
	01/31/23	<0.313/<0.313[f]	<0.231/<0.231[f]	<10.0 R/<10.0 R[f][n]	<0.109/<0.109[f]	<0.100/<0.100[f]
	11/06/24	<0.192	<0.0962	<0.0962	<0.0962	<0.0962
MW-6	04/18/02	<0.8	NA	NA	NA	NA
	08/20/02	<0.813	NA	NA	<0.813	<0.813
	11/18/02	<0.8	NA	NA	<1.6	<1.6
	02/24/03	<0.19	NA	NA	<0.19	<0.19
	07/06/06	**0.16 J**	<0.12	<0.059	<0.058	<0.092
	12/28/06	**0.21 J**	<0.0083	<0.018	<0.0085	<0.01
	01/06/09	<0.33	<0.33	<0.19	<0.19	<0.29
	07/13/10	**0.074 J B**	<0.0082	<0.012	<0.0094	<0.013
	03/19/12	<0.935	<0.374	<0.374	<0.472	<0.472
	09/30/13	<0.472	<0.189	<0.189	<0.189	<0.189
	07/28/15	<0.476	<0.190	<0.190	<0.190	<0.190
	01/31/17	<0.200	<0.100	<0.100	<0.100	<0.100
	07/17/19	<0.128	<0.0641	<0.0641	<0.0641	<0.0641
	07/07/21	<0.0952	<0.0476	<0.0476	<0.0476	<0.0476
	01/31/23	<0.313	<0.231	<10.0 R[n]	<0.109	<0.100
	11/06/24	<0.194	<0.0971	<0.0971	<0.0971	<0.0971
MW-7	08/07/02	**0.412 J**	NA	NA	<0.8	<0.8
	08/20/02	**0.347 J**	NA	NA	<0.8	<0.8
	11/19/02	**7.58**	NA	NA	<1.6	<1.6
	02/25/03	<0.191	NA	NA	<0.191	<0.191
	01/06/09	<0.34	<0.34	<0.19	<0.19	<0.29
	09/30/13	<0.481	<0.192	<0.192	<0.192	<0.192
	07/17/19	<0.103/<0.105[f]	<0.0515/<0.0526[f]	<0.0515/<0.0526[f]	<0.0515/<0.0526[f]	<0.0515/<0.0526[f]
	07/07/21	<0.0952	<0.0476	<0.0476	<0.0476	<0.0476
	01/31/23	<0.313	<0.231	<10.0 R[n]	<0.109	<0.100
	11/06/24	<0.190	<0.0952	<0.0952	<0.0952	<0.0952
MW-8	02/25/03	<0.189	NA	NA	<0.189	<0.189
	07/06/06	<0.11	<0.11	<0.055	<0.054	<0.087
	12/28/06	**0.16 J**	<0.0081	<0.018	<0.0083	<0.0098
	01/06/09	<0.34	<0.34	<0.19	<0.19	<0.29
	07/13/10	<0.011	<0.0083	<0.012	<0.0096	<0.014
	03/19/12	<0.935	<0.374	<0.374	<0.472	<0.472
	09/30/13	<0.476	<0.190	<0.190	<0.190	<0.190
	07/28/15	<0.476/<0.476[f]	<0.190/<0.190[f]	<0.190/<0.190[f]	<0.190/<0.190[f]	<0.190/<0.190[f]
	01/31/17	<0.227	<0.114	<0.114	<0.114	<0.114
	07/17/19	<0.0943	<0.0472	<0.0472	<0.0472	<0.0472
	07/07/21	<0.0952	0.0476	0.0476	0.0476	0.0476
	01/31/23	<0.313	<0.231	NA	<0.109	<0.100
	11/06/24	<0.196	<0.0980	<0.0980	<0.0980	<0.0980
MTCA Method B Cleanup Level[i]		0.22	NL[j]	NL	NL	4

Notes:

(a) Results are reported in micrograms per liter (µg/l).
(b) Samples were analyzed for selected semivolatile organic compounds by US Environmental Protection Agency (EPA) Method 8270D.
(c) "<" denotes analyte was not detected above the indicated detection limit.
(d) NA = not analyzed
(e) J denotes positively identified, but numerical value is an estimated quantity.
(f) Second value is result from a field duplicate sample.
(g) B = pentachlorophenol identified in the laboratory blank sample at an estimated concentration of 0.0735 µg/l.
(h) NS = Not sampled, insufficient water available for sampling
(i) Model Toxics Control Act (MTCA) Method B Groundwater CLARC (dated July 2015), the pentachlorophenal Method B cleanup level prior to 2011 was
(j) NL = Not listed in the CLARC Information System
(k) K denotes estimated maximum possible concentration
(l) J denotes estimated value below laboratory reporting limit.
(m) Dioxin concentrations are reported in picograms per liter (pg/L)
(n) R denotes rejected value due to samples extracted outside of hold time.
Bold values indicate analyte was detected above the indicated laboratory detection limit.
Highlighted values indicate detection above MTCA Method B screening value.

Figures

World Topographic Map: County of Clark, Oregon Metro, Bureau of Land Management, State of Oregon, State of Oregon DOT, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

H:\GIS_CloudProjects\TetraPakEvents\20241212_MonRpt\20241212_MonRpt.aprx Date: 12/12/2024 Printed by: MaryEllenMcCarty

Site

Columbia River

OREGON

WASHINGTON

Legend

Property Boundary

Notes
1. All locations are approximate

N

0 500 1,000

Scale: Feet

Kennedy Jenks

Tetra Pak Materials LP
Vancouver, Washington
2165020*24

Figure 1
Site Vicinity Map

December 2024

World Imagery (Clarity): Source: Esri, Maxar, Earthstar Geographics, IGN, and the GIS User Community

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Legend

Groundwater Elvevation Contours

MW-5 ← Monitoring Well ID
5.11 ← Groundwater Elevation (ft msl)

NM ← Groundwater Elevation Not Measured

Notes
1. All locations are approximate

N

0 25 50
Scale: Feet

Kennedy Jenks

Tetra Pak Materials LP
Vancouver, Washington
2165020*24

Figure 2
Groundwater Elevations
6 November 2024
December 2024

Attachment A

Laboratory Analytical and Data Validation Reports

Data Validation Report

Site/Facility Name: Vancouver
Laboratory Sample Delivery Group: A4K1118
Laboratory Report Date: 2024-11-27
Date Validated: 2024-12-06
Laboratory Name: APEX Laboratories
Laboratory Location: Tigard, OR

Table 1. Data Validation Summary

Quality Control Element	Item Checked?	Issue Noted?	Data Qualified?
Chain of Custody	X		
Sample Preservation	X		
Holding Time	X		
Method Blanks	X		
Trip Blanks	NA		
Laboratory Control Samples	X		
Matrix Spikes	NA		
Surrogate Recovery	X		
Laboratory Duplicates	NA		
Field Blank Samples	NA		
Field Duplicate Samples	X		
Chromatograms Provided	NA		
Dissolved Metals Field Filtered	NA		
Other Issues or Information	X		

Data Validation Details

Trip Blanks

Trip blanks were not collected or associated with this sample delivery group.

Matrix Spikes

Project specific matrix spikes were not analyzed for samples in this sample delivery group.

Laboratory Duplicates

Laboratory duplicates were not required by the methods in this sample delivery group.

Field Blank Samples

Field blanks were not collected or associated with this sample delivery group.

Field Duplicate Samples

The RPDs for the duplicate pair MW-2-20241106 and DUP-20241106 was 0%, there were no detections. The RPDs were within acceptance criteria, no action taken.

Chromatograms Provided

Petroleum analyses were not performed for this sample delivery group.

Dissolved Metals Field Filtered

Dissolved metals were not analyzed for samples in this sample delivery group.

Data Usability Statement:

Based on the data validation review, the data are acceptable as delivered. The findings with respect to the quality assurance/quality control (QA/QC) data identified in this report do not adversely affect the use of the analytical results.

Table 2. Description of samples

Sample ID	Sample Date	Lab Sample ID	Sample Type	Matrix	SW8270E
DUP-20241106	2024-11-06	A4K1118-06	FD	WG	X
MW-5-20241106	2024-11-06	A4K1118-02	N	WG	X
MW-6-20241106	2024-11-06	A4K1118-03RE1	N	WG	X
MW-7-20241106	2024-11-06	A4K1118-04	N	WG	X
MW-2-20241106	2024-11-06	A4K1118-01RE1	N	WG	X
MW-8-20241106	2024-11-06	A4K1118-05	N	WG	X

Table 3. Parent sample identification

Sample ID	Parent Sample ID	Sample Type
DUP-20241106	MW-2-20241106	FD

Table 4. Data that have been qualified are listed below.

Sample ID	Lab Sample ID	Analytic Method	CasRN	Parameter Name	Validated Result	Unit	Validator Reason
Not applicable							

Abbreviations

FD	Field Duplicate Sample
N	Normal Environmental Sample
NA	Not Applicable
WG	Ground Water
X	Item checked

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

ANALYTICAL REPORT

Wednesday, November 27, 2024

Shaelyn Thomas
Kennedy Jenks
421 SW 6th Avenue Suite 1000
Portland, OR 97204

RE: A4K1118 - 2024 LT GW Monitoring - 2165020*24

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

Enclosed are the results of analyses for work order A4K1118, which was received by the laboratory on 11/12/2024 at 10:34:00AM.

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

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

Cooler Receipt Information			
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.			
(See Cooler Receipt Form for details)			
Cooler #1	5.1 degC	Cooler #2	3.8 degC

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

Apex Laboratories

Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2-20241106	A4K1118-01	Water	11/06/24 11:33	11/12/24 10:34
MW-5-20241106	A4K1118-02	Water	11/06/24 10:57	11/12/24 10:34
MW-6-20241106	A4K1118-03	Water	11/06/24 12:57	11/12/24 10:34
MW-7-20241106	A4K1118-04	Water	11/06/24 12:18	11/12/24 10:34
MW-8-20241106	A4K1118-05	Water	11/06/24 13:38	11/12/24 10:34
DUP-20241106	A4K1118-06	Water	11/06/24 12:00	11/12/24 10:34

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Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2-20241106 (A4K1118-01RE1)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.194	ug/L	1	11/15/24 17:49	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0971	ug/L	1	11/15/24 17:49	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0971	ug/L	1	11/15/24 17:49	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0971	ug/L	1	11/15/24 17:49	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0971	ug/L	1	11/15/24 17:49	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*82 %*	*Limits: 44-120 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*69 %*	*44-120 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
Phenol-d6 (Surr)			*25 %*	*10-133 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*70 %*	*50-134 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
2-Fluorophenol (Surr)			*37 %*	*19-120 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*80 %*	*43-140 %*	*1*	*11/15/24 17:49*	*EPA 8270E*	
MW-5-20241106 (A4K1118-02)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.192	ug/L	1	11/15/24 18:24	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:24	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:24	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:24	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:24	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*80 %*	*Limits: 44-120 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*68 %*	*44-120 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*73 %*	*50-134 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
2-Fluorophenol (Surr)			*36 %*	*19-120 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*80 %*	*43-140 %*	*1*	*11/15/24 18:24*	*EPA 8270E*	
MW-6-20241106 (A4K1118-03RE1)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.194	ug/L	1	11/15/24 20:39	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0971	ug/L	1	11/15/24 20:39	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0971	ug/L	1	11/15/24 20:39	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0971	ug/L	1	11/15/24 20:39	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0971	ug/L	1	11/15/24 20:39	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*78 %*	*Limits: 44-120 %*	*1*	*11/15/24 20:39*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*68 %*	*44-120 %*	*1*	*11/15/24 20:39*	*EPA 8270E*	
Phenol-d6 (Surr)			*24 %*	*10-133 %*	*1*	*11/15/24 20:39*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*70 %*	*50-134 %*	*1*	*11/15/24 20:39*	*EPA 8270E*	

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Darrell Auvil, Client Services Manager

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6700 S.W. Sandburg Street
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ORELAP ID: OR100062

ANALYTICAL REPORT

Kennedy Jenks	Project: 2024 LT GW Monitoring	
421 SW 6th Avenue Suite 1000	Project Number: 2165020*24	Report ID:
Portland, OR 97204	Project Manager: Shaelyn Thomas	A4K1118 - 11 27 24 1211

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-6-20241106 (A4K1118-03RE1)				**Matrix: Water**		**Batch: 24K0443**		
Surrogate: 2-Fluorophenol (Surr)		*Recovery: 35 %*	*Limits: 19-120 %*		*1*	*11/15/24 20:39*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*83 %*	*43-140 %*	*1*	*11/15/24 20:39*	*EPA 8270E*	
MW-7-20241106 (A4K1118-04)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.190	ug/L	1	11/15/24 20:06	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0952	ug/L	1	11/15/24 20:06	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0952	ug/L	1	11/15/24 20:06	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0952	ug/L	1	11/15/24 20:06	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0952	ug/L	1	11/15/24 20:06	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery: 76 %*	*Limits: 44-120 %*		*1*	*11/15/24 20:06*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*65 %*	*44-120 %*	*1*	*11/15/24 20:06*	*EPA 8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*1*	*11/15/24 20:06*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*74 %*	*50-134 %*	*1*	*11/15/24 20:06*	*EPA 8270E*	
2-Fluorophenol (Surr)			*35 %*	*19-120 %*	*1*	*11/15/24 20:06*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*83 %*	*43-140 %*	*1*	*11/15/24 20:06*	*EPA 8270E*	
MW-8-20241106 (A4K1118-05)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.196	ug/L	1	11/15/24 19:32	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0980	ug/L	1	11/15/24 19:32	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0980	ug/L	1	11/15/24 19:32	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0980	ug/L	1	11/15/24 19:32	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0980	ug/L	1	11/15/24 19:32	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery: 75 %*	*Limits: 44-120 %*		*1*	*11/15/24 19:32*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*63 %*	*44-120 %*	*1*	*11/15/24 19:32*	*EPA 8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*1*	*11/15/24 19:32*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*69 %*	*50-134 %*	*1*	*11/15/24 19:32*	*EPA 8270E*	
2-Fluorophenol (Surr)			*35 %*	*19-120 %*	*1*	*11/15/24 19:32*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*82 %*	*43-140 %*	*1*	*11/15/24 19:32*	*EPA 8270E*	
DUP-20241106 (A4K1118-06)				**Matrix: Water**		**Batch: 24K0443**		
Pentachlorophenol (PCP)	ND	---	0.192	ug/L	1	11/15/24 18:59	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:59	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:59	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:59	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.0962	ug/L	1	11/15/24 18:59	EPA 8270E	

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DUP-20241106 (A4K1118-06)				**Matrix: Water**		**Batch: 24K0443**		
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*72 %*	*Limits: 44-120 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*63 %*	*44-120 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	
Phenol-d6 (Surr)			*22 %*	*10-133 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*75 %*	*50-134 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	
2-Fluorophenol (Surr)			*33 %*	*19-120 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*79 %*	*43-140 %*	*1*	*11/15/24 18:59*	*EPA 8270E*	

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0443 - EPA 3510C (Acid Extraction)									Water			
Blank (24K0443-BLK1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 20:19									
EPA 8270E												
Acenaphthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

Kennedy Jenks	Project: 2024 LT GW Monitoring	
421 SW 6th Avenue Suite 1000	Project Number: 2165020*24	Report ID:
Portland, OR 97204	Project Manager: Shaelyn Thomas	A4K1118 - 11 27 24 1211

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0443 - EPA 3510C (Acid Extraction)									Water			
Blank (24K0443-BLK1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 20:19									
2,3,5,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 80 %*	*Limits: 44-120 %*				*Dilution: 1x*				
2-Fluorobiphenyl (Surr)			*73 %*	*44-120 %*				*"*				
Phenol-d6 (Surr)			*26 %*	*10-133 %*				*"*				
p-Terphenyl-d14 (Surr)			*78 %*	*50-134 %*				*"*				
2-Fluorophenol (Surr)			*40 %*	*19-120 %*				*"*				
2,4,6-Tribromophenol (Surr)			*87 %*	*43-140 %*				*"*				
LCS (24K0443-BS1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 20:52									
EPA 8270E												
Acenaphthene	3.75	---	0.0800	ug/L	4	4.00	---	94	47-122%	---	---	
Acenaphthylene	3.92	---	0.0800	ug/L	4	4.00	---	98	41-130%	---	---	
Anthracene	4.16	---	0.0800	ug/L	4	4.00	---	104	57-123%	---	---	
Benz(a)anthracene	4.21	---	0.0800	ug/L	4	4.00	---	105	58-125%	---	---	
Benzo(a)pyrene	4.40	---	0.120	ug/L	4	4.00	---	110	54-128%	---	---	
Benzo(b)fluoranthene	4.62	---	0.120	ug/L	4	4.00	---	115	53-131%	---	---	
Benzo(k)fluoranthene	4.70	---	0.120	ug/L	4	4.00	---	117	57-129%	---	---	
Benzo(g,h,i)perylene	4.30	---	0.0800	ug/L	4	4.00	---	108	50-134%	---	---	
Chrysene	4.22	---	0.0800	ug/L	4	4.00	---	105	59-123%	---	---	
Dibenz(a,h)anthracene	4.33	---	0.0800	ug/L	4	4.00	---	108	51-134%	---	---	
Fluoranthene	4.41	---	0.0800	ug/L	4	4.00	---	110	57-128%	---	---	
Fluorene	3.89	---	0.0800	ug/L	4	4.00	---	97	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	4.07	---	0.0800	ug/L	4	4.00	---	102	52-134%	---	---	
1-Methylnaphthalene	3.27	---	0.160	ug/L	4	4.00	---	82	41-120%	---	---	
2-Methylnaphthalene	3.26	---	0.160	ug/L	4	4.00	---	81	40-121%	---	---	
Naphthalene	3.24	---	0.160	ug/L	4	4.00	---	81	40-121%	---	---	

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

Kennedy Jenks	Project: 2024 LT GW Monitoring	
421 SW 6th Avenue Suite 1000	Project Number: 2165020*24	Report ID:
Portland, OR 97204	Project Manager: Shaelyn Thomas	A4K1118 - 11 27 24 1211

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0443 - EPA 3510C (Acid Extraction)							Water					
LCS (24K0443-BS1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 20:52									
Phenanthrene	3.90	---	0.0800	ug/L	4	4.00	---	98	59-120%	---	---	
Pyrene	4.21	---	0.0800	ug/L	4	4.00	---	105	57-126%	---	---	
Carbazole	4.22	---	0.120	ug/L	4	4.00	---	106	60-122%	---	---	
Dibenzofuran	3.74	---	0.0800	ug/L	4	4.00	---	93	53-120%	---	---	
2-Chlorophenol	3.58	---	0.400	ug/L	4	4.00	---	90	38-120%	---	---	
4-Chloro-3-methylphenol	3.80	---	0.800	ug/L	4	4.00	---	95	52-120%	---	---	
2,4-Dichlorophenol	4.36	---	0.400	ug/L	4	4.00	---	109	47-121%	---	---	
2,4-Dimethylphenol	4.11	---	2.00	ug/L	4	4.00	---	103	31-124%	---	---	
2,4-Dinitrophenol	3.07	---	2.00	ug/L	4	4.00	---	77	23-143%	---	---	
4,6-Dinitro-2-methylphenol	3.84	---	2.00	ug/L	4	4.00	---	96	44-137%	---	---	
2-Methylphenol	3.12	---	0.200	ug/L	4	4.00	---	78	30-120%	---	---	
3+4-Methylphenol(s)	2.97	---	0.200	ug/L	4	4.00	---	74	29-120%	---	---	
2-Nitrophenol	3.96	---	0.800	ug/L	4	4.00	---	99	47-123%	---	---	
4-Nitrophenol	1.34	---	0.800	ug/L	4	4.00	---	33	10-120%	---	---	
Pentachlorophenol (PCP)	3.67	---	0.800	ug/L	4	4.00	---	92	35-138%	---	---	
Phenol	1.24	---	0.800	ug/L	4	4.00	---	31	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.81	---	0.400	ug/L	4	4.00	---	95	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.67	---	0.400	ug/L	4	4.00	---	92	50-121%	---	---	
2,4,5-Trichlorophenol	4.59	---	0.400	ug/L	4	4.00	---	115	53-123%	---	---	
2,4,6-Trichlorophenol	4.10	---	0.400	ug/L	4	4.00	---	102	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	4.64	---	1.60	ug/L	4	4.00	---	116	55-135%	---	---	
Butyl benzyl phthalate	4.57	---	1.60	ug/L	4	4.00	---	114	53-134%	---	---	
Diethylphthalate	3.87	---	1.60	ug/L	4	4.00	---	97	56-125%	---	---	
Dimethylphthalate	4.03	---	1.60	ug/L	4	4.00	---	101	45-127%	---	---	
Di-n-butylphthalate	4.72	---	1.60	ug/L	4	4.00	---	118	59-127%	---	---	
Di-n-octyl phthalate	4.82	---	1.60	ug/L	4	4.00	---	120	51-140%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 85 %*			*Limits: 44-120 %*			*Dilution: 4x*			
2-Fluorobiphenyl (Surr)			*87 %*			*44-120 %*			*"*			
Phenol-d6 (Surr)			*30 %*			*10-133 %*			*"*			
p-Terphenyl-d14 (Surr)			*100 %*			*50-134 %*			*"*			
2-Fluorophenol (Surr)			*44 %*			*19-120 %*			*"*			
2,4,6-Tribromophenol (Surr)			*100 %*			*43-140 %*			*"*			
LCS Dup (24K0443-BSD1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 21:25									**Q-19**

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Darrell Auvil, Client Services Manager

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

Kennedy Jenks	Project: 2024 LT GW Monitoring	
421 SW 6th Avenue Suite 1000	Project Number: 2165020*24	Report ID:
Portland, OR 97204	Project Manager: Shaelyn Thomas	A4K1118 - 11 27 24 1211

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0443 - EPA 3510C (Acid Extraction)							Water					
LCS Dup (24K0443-BSD1)			Prepared: 11/13/24 10:58 Analyzed: 11/13/24 21:25									Q-19
EPA 8270E												
Acenaphthene	3.46	---	0.0800	ug/L	4	4.00	---	87	47-122%	8	30%	
Acenaphthylene	3.57	---	0.0800	ug/L	4	4.00	---	89	41-130%	9	30%	
Anthracene	3.90	---	0.0800	ug/L	4	4.00	---	97	57-123%	7	30%	
Benz(a)anthracene	3.90	---	0.0800	ug/L	4	4.00	---	97	58-125%	8	30%	
Benzo(a)pyrene	4.15	---	0.120	ug/L	4	4.00	---	104	54-128%	6	30%	
Benzo(b)fluoranthene	4.33	---	0.120	ug/L	4	4.00	---	108	53-131%	6	30%	
Benzo(k)fluoranthene	4.39	---	0.120	ug/L	4	4.00	---	110	57-129%	7	30%	
Benzo(g,h,i)perylene	3.88	---	0.0800	ug/L	4	4.00	---	97	50-134%	10	30%	
Chrysene	3.88	---	0.0800	ug/L	4	4.00	---	97	59-123%	8	30%	
Dibenz(a,h)anthracene	4.02	---	0.0800	ug/L	4	4.00	---	101	51-134%	7	30%	
Fluoranthene	4.16	---	0.0800	ug/L	4	4.00	---	104	57-128%	6	30%	
Fluorene	3.71	---	0.0800	ug/L	4	4.00	---	93	52-124%	5	30%	
Indeno(1,2,3-cd)pyrene	3.71	---	0.0800	ug/L	4	4.00	---	93	52-134%	9	30%	
1-Methylnaphthalene	3.02	---	0.160	ug/L	4	4.00	---	76	41-120%	8	30%	
2-Methylnaphthalene	3.04	---	0.160	ug/L	4	4.00	---	76	40-121%	7	30%	
Naphthalene	3.00	---	0.160	ug/L	4	4.00	---	75	40-121%	8	30%	
Phenanthrene	3.72	---	0.0800	ug/L	4	4.00	---	93	59-120%	5	30%	
Pyrene	3.96	---	0.0800	ug/L	4	4.00	---	99	57-126%	6	30%	
Carbazole	3.96	---	0.120	ug/L	4	4.00	---	99	60-122%	6	30%	
Dibenzofuran	3.46	---	0.0800	ug/L	4	4.00	---	86	53-120%	8	30%	
2-Chlorophenol	3.28	---	0.400	ug/L	4	4.00	---	82	38-120%	9	30%	
4-Chloro-3-methylphenol	3.42	---	0.800	ug/L	4	4.00	---	86	52-120%	11	30%	
2,4-Dichlorophenol	3.96	---	0.400	ug/L	4	4.00	---	99	47-121%	10	30%	
2,4-Dimethylphenol	3.59	---	2.00	ug/L	4	4.00	---	90	31-124%	14	30%	
2,4-Dinitrophenol	2.29	---	2.00	ug/L	4	4.00	---	57	23-143%	29	30%	
4,6-Dinitro-2-methylphenol	3.38	---	2.00	ug/L	4	4.00	---	85	44-137%	13	30%	
2-Methylphenol	2.79	---	0.200	ug/L	4	4.00	---	70	30-120%	11	30%	
3+4-Methylphenol(s)	2.62	---	0.200	ug/L	4	4.00	---	66	29-120%	12	30%	
2-Nitrophenol	3.66	---	0.800	ug/L	4	4.00	---	92	47-123%	8	30%	
4-Nitrophenol	1.10	---	0.800	ug/L	4	4.00	---	28	10-120%	19	30%	
Pentachlorophenol (PCP)	2.98	---	0.800	ug/L	4	4.00	---	74	35-138%	21	30%	
Phenol	1.06	---	0.800	ug/L	4	4.00	---	27	10-120%	16	30%	
2,3,4,6-Tetrachlorophenol	3.44	---	0.400	ug/L	4	4.00	---	86	50-128%	10	30%	

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Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0443 - EPA 3510C (Acid Extraction)								**Water**				
LCS Dup (24K0443-BSD1)			Prepared: 11/13/24 10:58		Analyzed: 11/13/24 21:25							**Q-19**
2,3,5,6-Tetrachlorophenol	3.37	---	0.400	ug/L	4	4.00	---	84	50-121%	9	30%	
2,4,5-Trichlorophenol	4.21	---	0.400	ug/L	4	4.00	---	105	53-123%	9	30%	
2,4,6-Trichlorophenol	3.72	---	0.400	ug/L	4	4.00	---	93	50-125%	10	30%	
Bis(2-ethylhexyl)phthalate	4.25	---	1.60	ug/L	4	4.00	---	106	55-135%	9	30%	
Butyl benzyl phthalate	4.22	---	1.60	ug/L	4	4.00	---	105	53-134%	8	30%	
Diethylphthalate	3.58	---	1.60	ug/L	4	4.00	---	90	56-125%	8	30%	
Dimethylphthalate	3.72	---	1.60	ug/L	4	4.00	---	93	45-127%	8	30%	
Di-n-butylphthalate	4.41	---	1.60	ug/L	4	4.00	---	110	59-127%	7	30%	
Di-n-octyl phthalate	4.43	---	1.60	ug/L	4	4.00	---	111	51-140%	8	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 79 %*		*Limits: 44-120 %*			*Dilution: 4x*				
2-Fluorobiphenyl (Surr)			*82 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*26 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*90 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*39 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*94 %*		*43-140 %*			*"*				

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ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

SAMPLE PREPARATION INFORMATION

Selected Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0443							
A4K1118-01RE1	Water	EPA 8270E	11/06/24 11:33	11/13/24 10:58	1030mL/1mL	1000mL/1mL	0.97
A4K1118-02	Water	EPA 8270E	11/06/24 10:57	11/13/24 10:58	1040mL/1mL	1000mL/1mL	0.96
A4K1118-03RE1	Water	EPA 8270E	11/06/24 12:57	11/13/24 10:58	1030mL/1mL	1000mL/1mL	0.97
A4K1118-04	Water	EPA 8270E	11/06/24 12:18	11/13/24 10:58	1050mL/1mL	1000mL/1mL	0.95
A4K1118-05	Water	EPA 8270E	11/06/24 13:38	11/13/24 10:58	1020mL/1mL	1000mL/1mL	0.98
A4K1118-06	Water	EPA 8270E	11/06/24 12:00	11/13/24 10:58	1040mL/1mL	1000mL/1mL	0.96

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421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

QUALIFIER DEFINITIONS

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

Apex Laboratories

Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

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Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

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

NR Result Not Reported

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

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

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.
-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Kennedy Jenks
421 SW 6th Avenue Suite 1000
Portland, OR 97204

Project: **2024 LT GW Monitoring**
Project Number: **2165020*24**
Project Manager: **Shaelyn Thomas**

Report ID:
A4K1118 - 11 27 24 1211

APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # ANKIIIS COC 1 of 1

Company: Kennedy Jenks | Project Mgr: Shaelyn Thomas | Project Name: 2024 LT GW Monitoring | Project #: 2165020*24
Address: | Phone: | Email: shaelynthomas@kennedyjenks.com | PO #
Sampled by: Mac Hiller

Site Location: OR (WA) CA AK ID ___

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	8270E LL PAH/PHTH/Phenols	Archive
~~MW-10-20241106~~		~~11/6/2024~~		GW																X	
MW-2-20241106		11/6/2024	1133	GW	2															X	
MW-5-20241106		11/6/2024	1057	GW	2															X	
MW-6-20241106		11/6/2024	1257	GW	2															X	
MW-7-20241106		11/6/2024	1218	GW	2															X	
MW-8-20241106		11/6/2024	1338	GW	2															X	
DUP-20241106		11/6/2024	1200	GW	2															X	

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: Normal TAT

SPECIAL INSTRUCTIONS:

Analysis should include the following isomers: Pentachlorophenol, 2,3,4,6 Tetrachlorophenol, 2,3,5,6 Tetrachlorophenol, 2,4,5 Trichlorophenol and 2,4,6 Trichlorophenol

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: SHIPPED VIA [illegible]	Signature:	Signature:
Date: 11/11/24	Date:	Date:	Date: 11/27/24
Time:	Time:	Time:	Time: 1034
Printed Name: Mac Hiller	Printed Name:	Printed Name:	Printed Name:
Company: BTS	Company:	Company:	Company: Apex

Apex Laboratories

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Kennedy Jenks	Project: **2024 LT GW Monitoring**	
421 SW 6th Avenue Suite 1000	Project Number: **2165020*24**	**Report ID:**
Portland, OR 97204	Project Manager: **Shaelyn Thomas**	**A4K1118 - 11 27 24 1211**

APEX LABS COOLER RECEIPT FORM

Client: Kennedy Jenks Element WO#: A4 K1118

Project/Project #: 2024 LT GW Monitoring 2165020*24
ASAP for KPS 11/12/24

Delivery Info:

Date/time received: 11/12/24 @ 1034 By: KMS

Delivered by: Apex__Client__ESS__FedEx__UPS X Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes ____ No X

Cooler Inspection Date/time inspected: 11/12/24 @ 1034 By: KMS

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

Contains USDA Reg. Soils? Yes ____ No X Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.1	3.8					
Custody seals? (Y/N)	Y →						
Received on ice? (Y/N)	Y →						
Temp. blanks? (Y/N)	Y →						
Ice type: (Gel/Real/Other)	Real →						
Condition (In/Out):	In →						

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

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

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 11/12/24 @ 11:00 By: KMS
KMS 11/12

All samples intact? Yes X No ___ Comments: ____

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

COC/container discrepancies form initiated? Yes ___ No X

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

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

Comments ____

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X pH ID:____

Comments: ____

12C1B 065 01 1961 8419

Labeled by: KMS Witness: VO Cooler Inspected by: KMS

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

Attachment B

Groundwater Sampling and Purge Forms

WELL GAUGING DATA

Project # 241106-MH1 Date 11/06/24 Client KENNEDY JENKS

Site TETRA PAK, 3125 THOMPSON AVE, VANCOUVER, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1012	2	-	-	-	-	49.54	50.17		
MW-2	1001	2	-	-	-	-	46.64	50.17		
MW-3	0948	1.5	-	-	-	-	45.91	51.27		
MW-5	0956	2	-	-	-	-	46.33	50.28		
MW-6	1026	2	-	-	-	-	45.06	53.86		
MW-7	1007	2	-	-	-	-	44.85	54.46		
MW-8	1019	2	-	-	-	-	43.52	54.46		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 50.17	Depth to Water (ft.): 49.54
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
—			WELL	HAS INSUFFICIENT			—	
				WATER				
—			NO	SAMPLE	TAKEN		—	

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

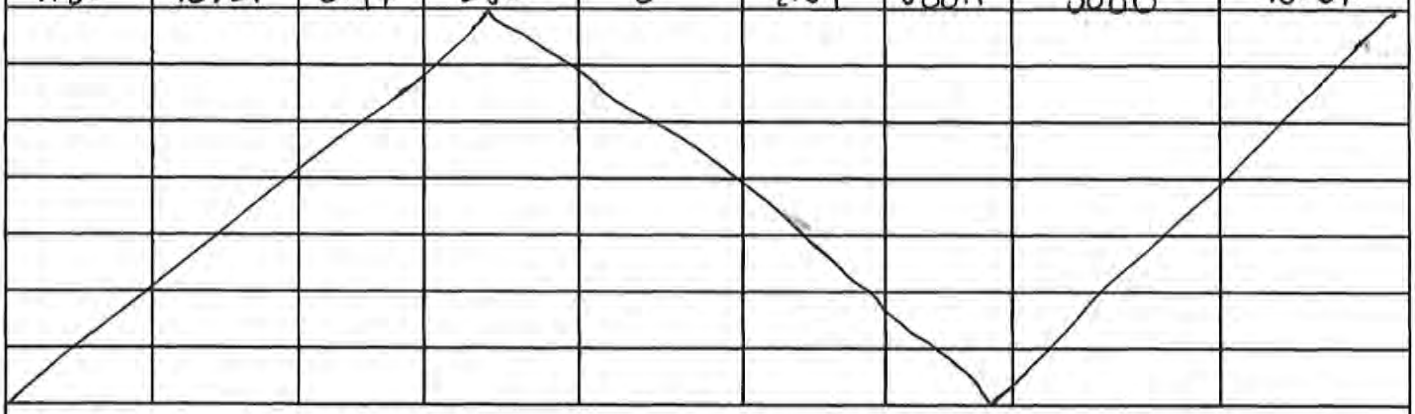
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 50.17	Depth to Water (ft.): 46.64
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder) Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ____

Start Purge Time: 1115 Flow Rate: 200 ML/MIN Pump Depth: 48.5'

Time	Temp. ((°C) or °F)	pH	Cond. (mS/cm or (µS)/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1118	13.19	6.50	249	3	2.59	379.1	600	46.66
1121	13.18	6.49	249	3	2.59	379.6	1200	46.66
1124	13.19	6.49	249	3	2.60	378.2	1800	46.66
1127	13.20	6.48	249	3	2.59	378.5	2400	46.67
1130	13.21	6.47	250	3	2.59	380.1	3000	46.67



Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1133	Sampling Date: 11/06/24
Sample I.D.: MW-2-20241106	Laboratory: APEX
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE COC
Equipment Blank I.D.: — @ Time —	Duplicate I.D.: DUP-20241106

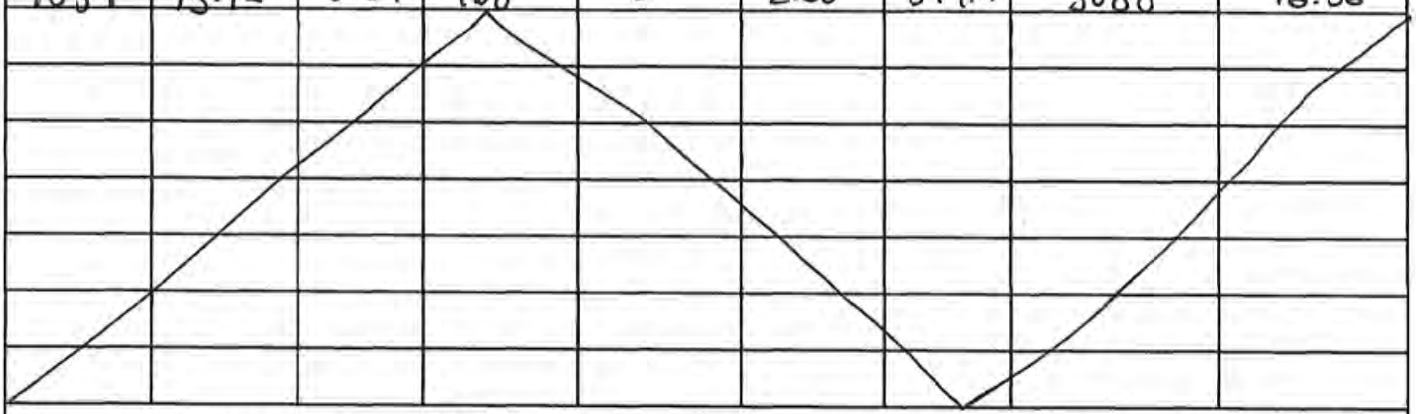
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-5	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 50.28	Depth to Water (ft.): 46.33
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder) Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ____

Start Purge Time: 1039 Flow Rate: 200 ML/MIN Pump Depth: 48'

Time	Temp. ((°C) or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1042	13.02	6.67	168	2	2.61	371.2	600	46.36
1045	13.07	6.65	168	2	2.61	372.7	1200	46.36
1048	13.10	6.61	168	2	2.61	373.3	1800	46.36
1051	13.09	6.60	168	2	2.60	373.9	2400	46.36
1054	13.12	6.59	168	2	2.60	374.7	3000	46.36



Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1057	Sampling Date: 11/06/24
Sample I.D.: MW-5-20241106	Laboratory: APEX
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE CO.C
Equipment Blank I.D.: — @ Time —	Duplicate I.D.: —

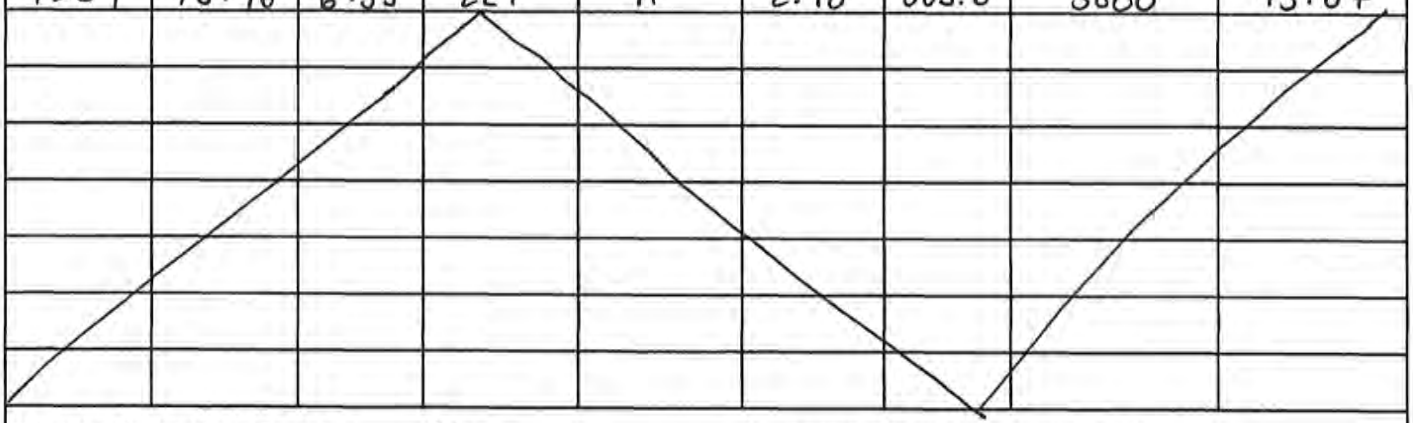
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 53.86	Depth to Water (ft.): 45.06
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump (6)
Sampling Method: Dedicated (6) Tubing | New Tubing | Other ____

Start Purge Time: 1239 Flow Rate: 200 mL/min Pump Depth: 49.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1242	13.98	6.36	227	44	2.49	381.8	600	45.07
1245	13.95	6.36	227	41	2.48	382.0	1200	45.07
1248	13.94	6.35	228	40	2.49	382.4	1800	45.07
1251	13.92	6.35	228	41	2.48	382.7	2400	45.07
1254	13.96	6.33	227	41	2.48	383.0	3000	45.07



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1257 Sampling Date: 11/06/24

Sample I.D.: MW-6-20241106 Laboratory: APEX

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

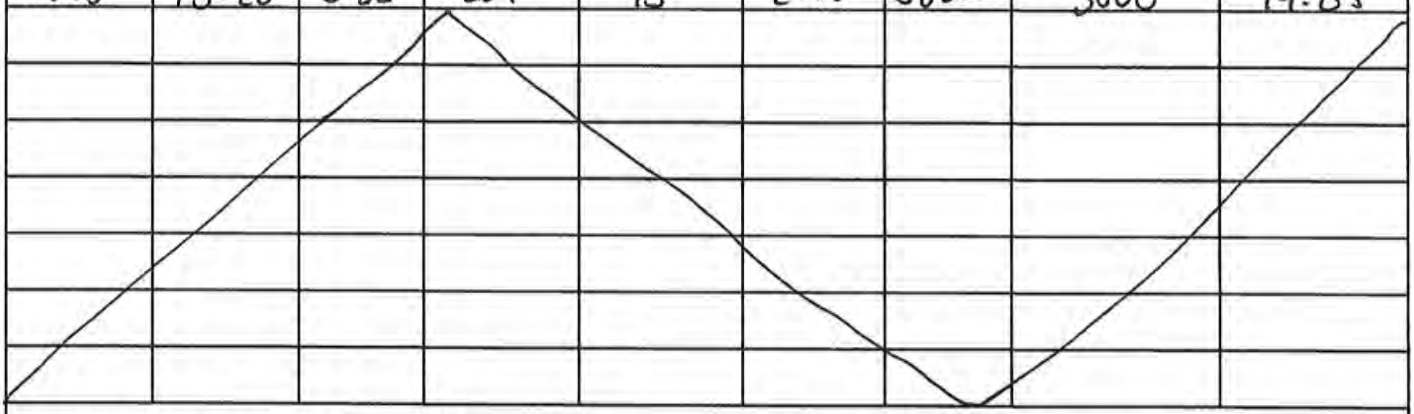
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 54.46	Depth to Water (ft.): 44.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder (Pump)
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 1200 Flow Rate: 200 ML/MIN Pump Depth: 49.5'

Time	Temp. ((°C) or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1203	13.30	6.37	204	45	2.55	382.5	600	44.85
1206	13.25	6.36	204	44	2.57	382.8	1200	44.85
1209	13.33	6.34	204	44	2.55	383.1	1800	44.85
1212	13.29	6.34	204	44	2.56	383.4	2400	44.85
1215	13.28	6.32	204	43	2.55	383.2	3000	44.85



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1218 Sampling Date: 11/06/24

Sample I.D.: MW-7-20241106 Laboratory: APEX

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

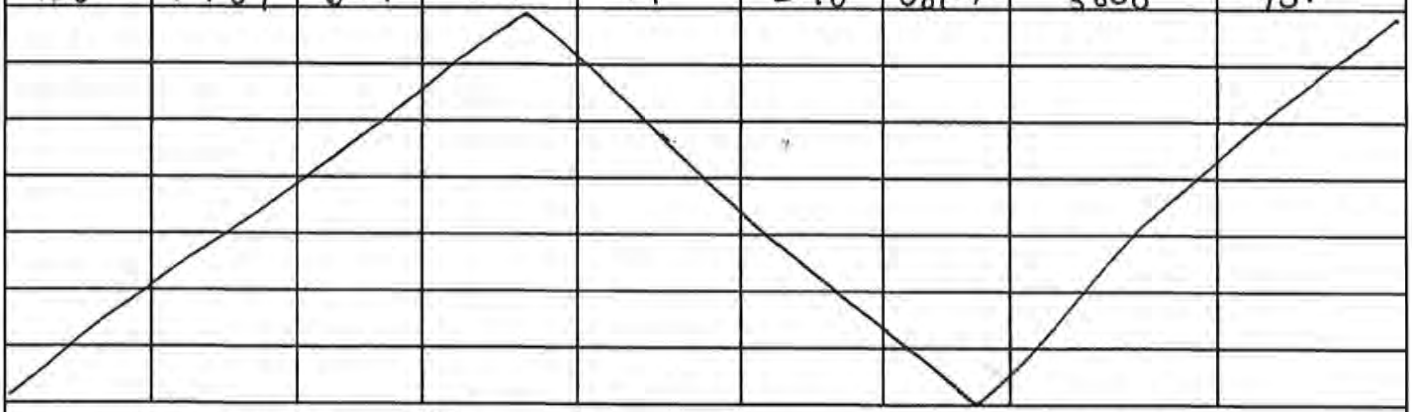
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241106-MH1	Client: KENNEDY JENKS
Sampler: MH	Gauging Date: 11/06/24
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 54.46	Depth to Water (ft.): 43.52
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1320 Flow Rate: 200 ML/MIN Pump Depth: 49'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1323	14.03	6.25	220	15	2.48	380.3	600	43.
1326	14.06	6.24	221	15	2.47	380.6	1200	43.
1329	14.12	6.22	221	14	2.47	381.0	1800	43.
1332	14.11	6.21	221	14	2.47	381.3	2400	43.
1335	14.09	6.19	221	14	2.48	381.7	3000	43.



Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1338	Sampling Date: 11/06/24
Sample I.D.: MW-8-20241106	Laboratory: APEX
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C
Equipment Blank I.D.: — @ Time —	Duplicate I.D.: —

APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # _____ COC 1 of 1

Company: Kennedy Jenks	Project Mgr: Shaelyn Thomas	Project Name: 2024 LT GW Monitoring	Project #: 2165020*24
Address:	Phone:	Email: shaelynthomas@kennedyjenks.com	PO #
Sampled by: MAC HILLER			

Site Location: OR (WA) CA AK ID ___ SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	8270E LL PAH/PHTH/Phenols							Archive
~~MW-1-20241106~~		~~11/6/2024~~		GW																	X						
MW-2-20241106		11/6/2024	1133	GW	2																X						
MW-5-20241106		11/6/2024	1057	GW	2																X						
MW-6-20241106		11/6/2024	1257	GW	2																X						
MW-7-20241106		11/6/2024	1218	GW	2																X						
MW-8-20241106		11/6/2024	1338	GW	2																X						
DUP-20241106		11/6/2024	1200	GW	2																X						

ANALYSIS REQUEST

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: Normal TAT

SPECIAL INSTRUCTIONS:

Analysis should include the following isomers: Pentachlorophenol, 2,3,4,6 Tetrachlorophenol, 2,3,5,6 Tetrachlorophenol, 2,4,5 Trichlorophenol and 2,4,6 Trichlorophenol

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Date:	Signature: Date: SHIPPED VIA FEDEX	Signature: Date:	Signature: Date:
Printed Name: MAC HILLER Time:	Printed Name: Time:	Printed Name: Time:	Printed Name: Time:
Company: BTS	Company:	Company:	Company:

WELLHEAD INSPECTION FORM

Client: Kennedy Jenks Site: Tetra Pak, Vancouver, WA Date: 11/06/24

Job #: 241106-MH1 Technician: MH Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: 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)	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)
MW-1	X														
MW-2	X														
MW-3	X														
MW-5	X														
MW-6	X														
MW-7	X														
MW-8	X														

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME TETRA PAK, VANCOUVER, WA				PROJECT NUMBER 241106-MH1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HANNA	07460011101	11/06/24 @ 0641	PH 4 7 10	3.99 7.02 9.97	✓	19.3	MH
			COND 3980 ORP 237.5 DO 100	3886 238.1 98	✓	19.3	MH