PDC Energy, Inc.

Second Quarter 2024 Groundwater Monitoring Summary

July 24, 2024

Former Seele 31, 41, 42-31 Tank Battery
NENE Section 31 T4N R67W
Remediation # 6926

This groundwater monitoring summary has been prepared by Tasman, Inc. for the former Seele 31, 41, 42-31 tank battery location.

Site History and Background

On January 9, 2012, a historic hydrocarbon release was discovered beneath a dump line on location during equipment upgrade activities. Following the discovery, mitigation efforts were initiated and on January 10, 2012, approximately 100 cubic yards of impacted material were removed from location. During excavation activities, groundwater was encountered within the excavation at approximately 9 feet below ground surface. Between first quarter 2012, and first quarter 2017, eight monitoring wells (BH01 – BH03, BH07 – BH11) were advanced within and adjacent to the former excavation extent to delineate dissolved phase hydrocarbon impacts and establish point of compliance (POC) on site.

In November 2022, tank battery decommissioning activities were completed, and a tank battery closure request was submitted under ECMC Document No. 403258722 for Remediation Project No. 25742. Further mitigation efforts were initiated on December 12, 2022, under Remediation No. 6926, to remove the remaining source mass material beneath the former tank battery. To date, approximately 2,400 cubic yards were removed from the excavation and transported off-site for disposal. During excavation activities, all eight site monitoring wells were destroyed. Between July 13, and August 28, 2023, eleven (11) monitoring wells (BH12 – BH22) were installed within and surrounding the former excavation extent to delineate dissolved-phase hydrocarbon impacts and replace monitoring wells destroyed during excavation activities.

Groundwater Monitoring Activities

On June 7, 2024, groundwater monitoring was conducted at all 11 monitoring well locations (BH12 – BH22). Eleven groundwater samples were submitted to Summit Scientific Laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by EPA Method 8260B, chloride and sulfate anions by EPA Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

Second quarter 2024 analytical results indicated that organic compound concentrations were in compliance with the applicable ECMC regulatory standards in the 11 monitoring well locations. Inorganic parameter trends were examined over time and compared to historic background data and groundwater

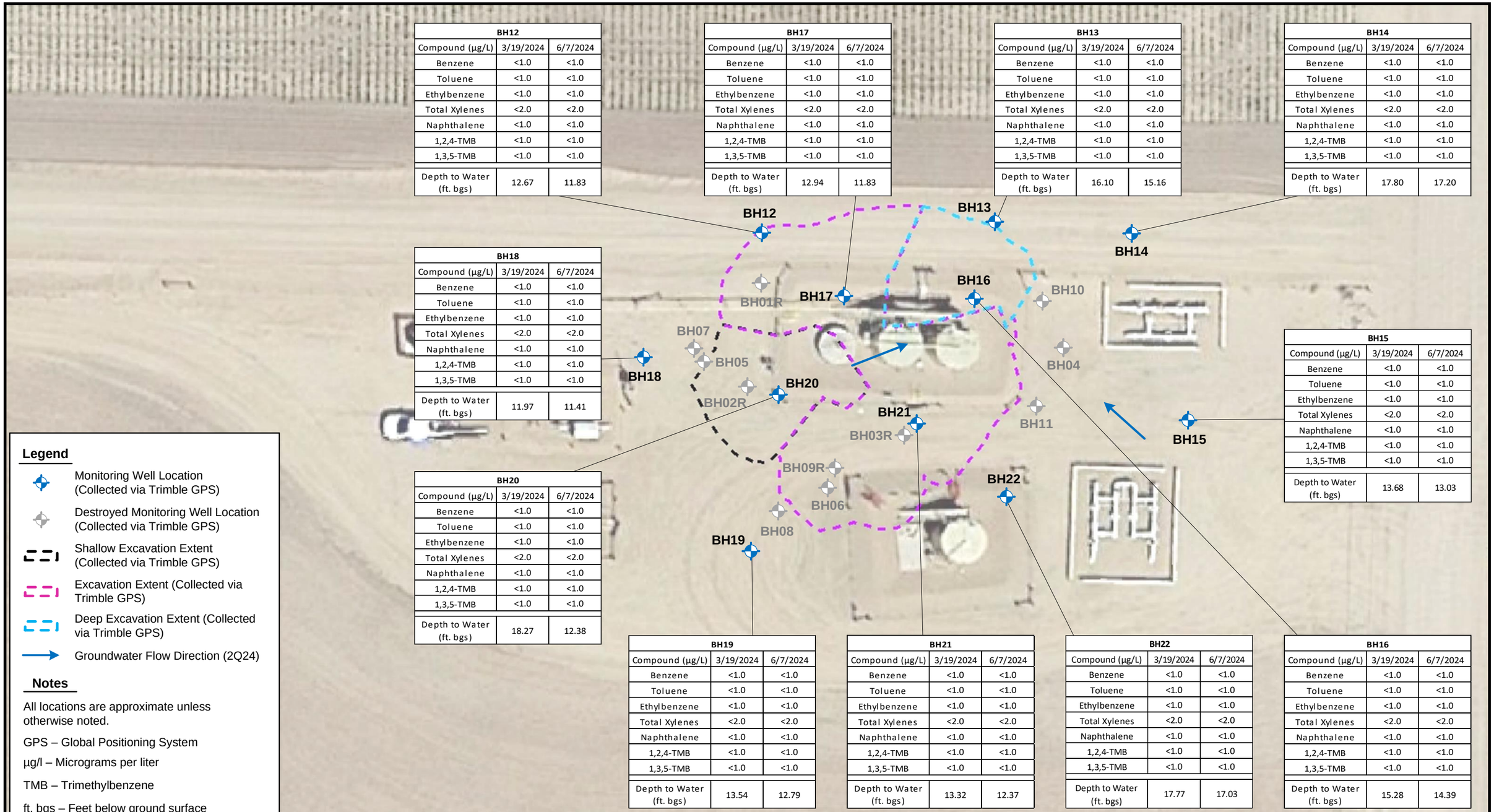
flow direction. Based on this data, TDS and sulfate anion concentrations were in compliance with the applicable regulatory standards or within the 125% threshold of the historic maximum background concentration recorded in the up-/cross-gradient monitoring wells (BH15, BH18, and BH19) in all monitoring well locations. Chloride anion concentrations were in compliance with the applicable regulatory standards in all 11 monitoring well locations. The graphs illustrating the data are included as Attachment A. Sample locations and corresponding analytical results are illustrated on Figures 1 and 2. Groundwater elevation data is illustrated on Figure 3. Groundwater analytical results are summarized in Tables 1 and 2. The laboratory analytical report is included in Attachment B.

Current Remediation Activities and Path Forward

Enhanced fluid recovery (EFR) with air sparge (AS) was initiated in the third quarter 2012 and continued through the fourth quarter 2015. Based on the analytical results received from quarterly groundwater monitoring events, monitored natural attenuation (MNA) was implemented as the selected remediation strategy during the fourth quarter 2015 and continued into the second quarter 2016. EFR/AS was reinitiated during the second quarter 2016 due to a rebound in dissolved-phase hydrocarbon concentrations. EFR/AS continued as the selected remediation strategy through the fourth quarter 2022. MNA was reinitiated following source mass removal activities during the third quarter 2023 and will remain the selected remediation strategy through the third quarter 2024.

During the second quarter 2024, four consecutive quarters of TDS and sulfate anion concentrations in compliance with the applicable ECMC regulatory standards were achieved. Consequently, PDC is requesting to remove TDS and sulfate from the quarterly sampling and analysis plan.

Third quarter 2024 groundwater sampling will be conducted in September 2024.



BH12		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	12.67	11.83

BH17		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	12.94	11.83

BH13		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	16.10	15.16

BH14		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	17.80	17.20

BH18		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	11.97	11.41

BH15		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	13.68	13.03

BH20		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	18.27	12.38

BH19		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	13.54	12.79

BH21		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	13.32	12.37

BH22		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	17.77	17.03

BH16		
Compound (µg/L)	3/19/2024	6/7/2024
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<2.0	<2.0
Naphthalene	<1.0	<1.0
1,2,4-TMB	<1.0	<1.0
1,3,5-TMB	<1.0	<1.0
Depth to Water (ft. bgs)	15.28	14.39

Legend

- Monitoring Well Location (Collected via Trimble GPS)
- Destroyed Monitoring Well Location (Collected via Trimble GPS)
- Shallow Excavation Extent (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)
- Deep Excavation Extent (Collected via Trimble GPS)
- Groundwater Flow Direction (2Q24)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

µg/l – Micrograms per liter

TMB – Trimethylbenzene

ft. bgs – Feet below ground surface

0 ft. 25 ft. 50 ft.

N

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

DATE: July 12, 2024

DESIGNED BY: C. Hamlin

DRAWN BY: J. Rollins

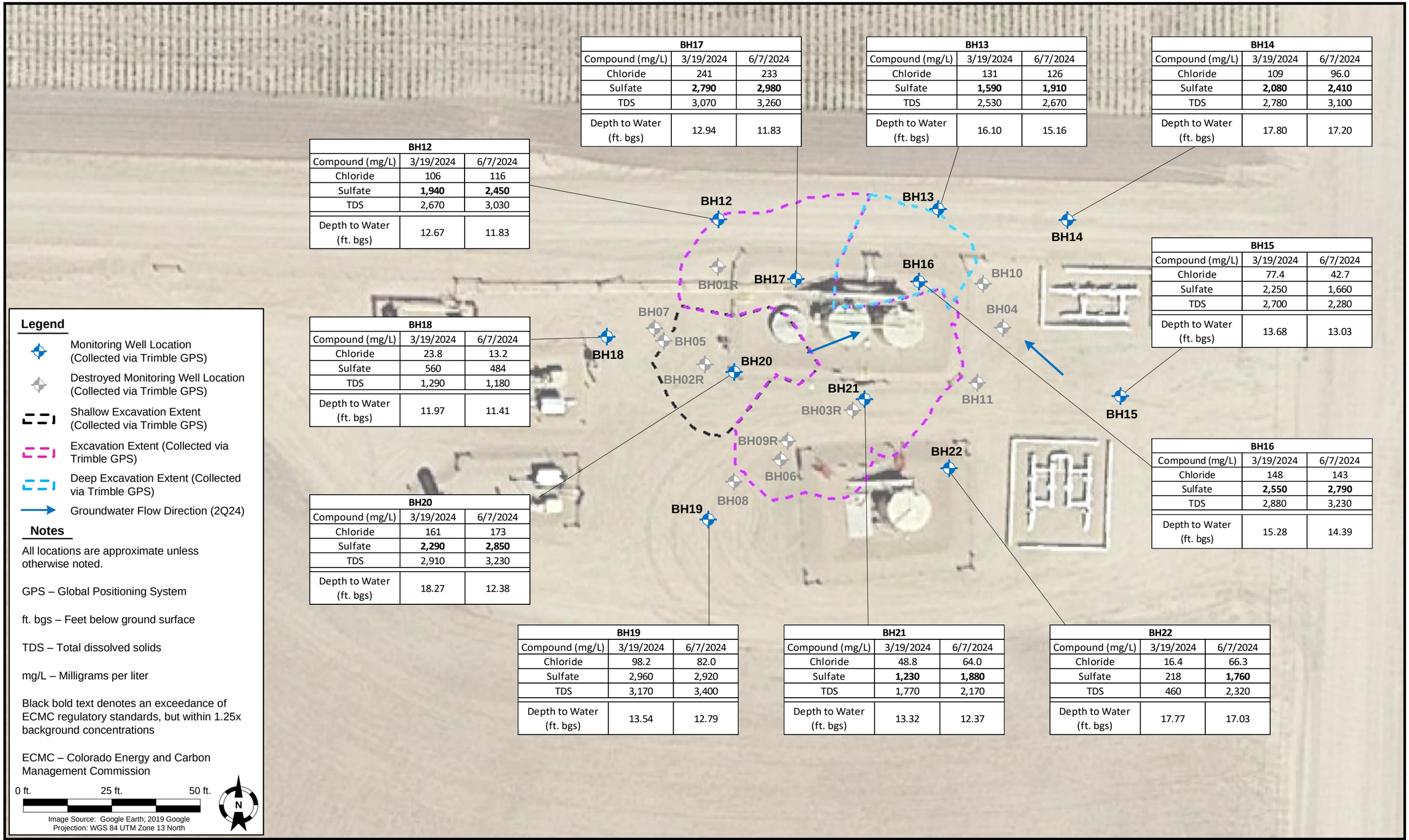
TASMAN

Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

PDC Energy, Inc. – DJ Basin
Former Seele 31, 41, 42-31 Tank Battery
NENE, Section 31, Township 4 North, Range 67 West
Weld County, Colorado

GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 1



BH17		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	241	233
Sulfate	**2,790**	**2,980**
TDS	3,070	3,260
Depth to Water (ft. bgs)	12.94	11.83

BH13		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	131	126
Sulfate	**1,590**	**1,910**
TDS	2,530	2,670
Depth to Water (ft. bgs)	16.10	15.16

BH14		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	109	96.0
Sulfate	**2,080**	**2,410**
TDS	2,780	3,100
Depth to Water (ft. bgs)	17.80	17.20

BH12		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	106	116
Sulfate	**1,940**	**2,450**
TDS	2,670	3,030
Depth to Water (ft. bgs)	12.67	11.83

BH15		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	77.4	42.7
Sulfate	2,250	1,660
TDS	2,700	2,280
Depth to Water (ft. bgs)	13.68	13.03

BH18		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	23.8	13.2
Sulfate	560	484
TDS	1,290	1,180
Depth to Water (ft. bgs)	11.97	11.41

BH16		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	148	143
Sulfate	**2,550**	**2,790**
TDS	2,880	3,230
Depth to Water (ft. bgs)	15.28	14.39

BH20		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	161	173
Sulfate	**2,290**	**2,850**
TDS	2,910	3,230
Depth to Water (ft. bgs)	18.27	12.38

BH19		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	98.2	82.0
Sulfate	2,960	2,920
TDS	3,170	3,400
Depth to Water (ft. bgs)	13.54	12.79

BH21		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	48.8	64.0
Sulfate	**1,230**	**1,880**
TDS	1,770	2,170
Depth to Water (ft. bgs)	13.32	12.37

BH22		
Compound (mg/L)	3/19/2024	6/7/2024
Chloride	16.4	66.3
Sulfate	218	**1,760**
TDS	460	2,320
Depth to Water (ft. bgs)	17.77	17.03

Legend

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- Destroyed Monitoring Well Location (Collected via Trimble GPS)
- Shallow Excavation Extent (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)
- Deep Excavation Extent (Collected via Trimble GPS)
- Groundwater Flow Direction (2Q24)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

ft. bgs – Feet below ground surface

TDS – Total dissolved solids

mg/L – Milligrams per liter

Black bold text denotes an exceedance of ECMC regulatory standards, but within 1.25x background concentrations

ECMC – Colorado Energy and Carbon Management Commission

0 ft. 25 ft. 50 ft.

N

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

DATE: July 12, 2024

DESIGNED BY: C. Hamlin

DRAWN BY: J. Rollins

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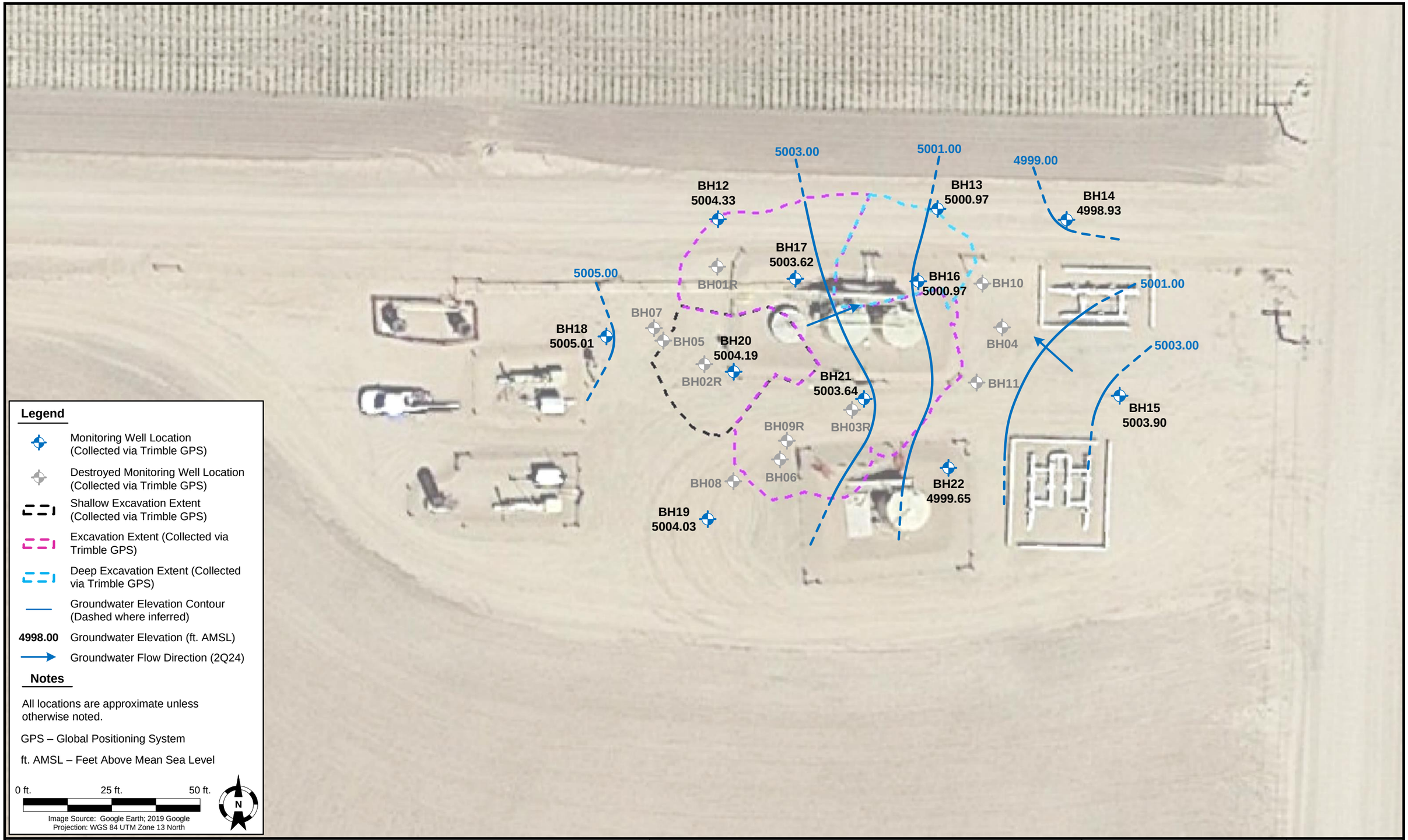
NENE, Section 31, Township 4 North, Range 67 West
Weld County, Colorado

GROUNDWATER ANALYTICAL RESULTS MAP (INORGANIC PARAMETERS)

FIGURE 2



Legend

- Monitoring Well Location (Collected via Trimble GPS)
- Destroyed Monitoring Well Location (Collected via Trimble GPS)
- Shallow Excavation Extent (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)
- Deep Excavation Extent (Collected via Trimble GPS)
- Groundwater Elevation Contour (Dashed where inferred)
- **4998.00** Groundwater Elevation (ft. AMSL)
- Groundwater Flow Direction (2Q24)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

ft. AMSL – Feet Above Mean Sea Level

0 ft. 25 ft. 50 ft.

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

N

DATE: June 14, 2024 DESIGNED BY: C. Hamlin DRAWN BY: A.Dyal	TASMAN	**Tasman, Inc.** 6855 W. 119th Ave Broomfield, CO 80020	**PDC Energy, Inc. – DJ Basin** **Former Seele 31, 41, 42-31 Tank Battery** NENE, Section 31, Township 4 North, Range 67 West Weld County, Colorado	GROUNDWATER ELEVATION CONTOUR MAP (06/07/2024)	FIGURE 3

TABLE 1
FORMER SEELE 31, 41, 42-31 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Groundwater Standard (µg/L) [1]		5	560	700	1,400	140	67	67	-	-
BH01R	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.17	4998.72
BH01R	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.43	4999.46
BH01R	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.18	4999.71
BH01R	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.72	4998.17
BH01R	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.16	4997.73
BH01R	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.13	4997.76
BH01R	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.07	4997.82
BH01R	Monitoring Well Destroyed									
BH02R	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.21	4999.08
BH02R	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.11	4998.18
BH02R	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.30	4997.99
BH02R	1/5/2022	Not Sampled - Dry							Dry	Dry
BH02R	4/15/2022	Not Sampled - Dry							Dry	Dry
BH02R	7/29/2022	Not Sampled - Dry							Dry	Dry
BH02R	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.27	4999.02
BH02R	Monitoring Well Destroyed									
BH03R	4/8/2021	49	<1.0	<1.0	19	<1.0	<1.0	2.2	11.94	4999.01
BH03R	7/9/2021	950	47	9.3	82	1.6	1.8	3.4	11.56	4999.39
BH03R	10/5/2021	820	7.0	2.6	60	2.0	<1.0	2.0	11.86	4999.09
BH03R	1/5/2022	180	1.8	6.9	34	<1.0	4.9	<1.0	13.05	4997.90
BH03R	4/15/2022	410	2.8	9.8	30	1.4	8.8	4.0	13.21	4997.74
BH03R	7/29/2022	640	1.7	17	79	2.8	21	1.8	13.19	4997.76
BH03R	10/26/2022	1,400	<1.0	47	100	5.2	50	8.0	12.45	4998.50
BH03R	Monitoring Well Destroyed									
BH07	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.36	4999.96
BH07	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.00	5000.32
BH07	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	9.69	5000.63
BH07	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.10	4999.22
BH07	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.50	4998.82
BH07	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.50	4998.82
BH07	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.30	4998.02
BH07	Monitoring Well Destroyed									
BH08	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.86	4999.97
BH08	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.06	5000.77
BH08	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.65	5000.18
BH08	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.16	4998.67
BH08	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.37	4998.46
BH08	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.35	4998.48
BH08	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.02	4999.81
BH08	Monitoring Well Destroyed									
BH09	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.99	4999.85
BH09	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.98	4999.86
BH09	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.08	4999.76
BH09	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.39	4998.45
BH09	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.58	4998.26
BH09	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.57	4998.27
BH09	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.42	4999.42
BH09	Monitoring Well Destroyed									
BH10	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.49	4997.86
BH10	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.09	4998.26
BH10	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.29	4998.06
BH10	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	14.66	4994.69
BH10	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	14.61	4994.74

TABLE 1
FORMER SEELE 31, 41, 42-31 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Groundwater Standard (µg/L) [1]		5	560	700	1,400	140	67	67	-	-
BH10	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	14.58	4994.77
BH10	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	15.58	4993.77
BH10	Monitoring Well Destroyed									
BH11	4/8/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.97	4999.28
BH11	7/9/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.41	4999.84
BH11	10/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.87	4999.38
BH11	1/5/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.01	4998.24
BH11	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.56	4998.69
BH11	7/29/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.55	4998.70
BH11	10/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.73	4998.52
BH11	Monitoring Well Destroyed									
BH12	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.13	5005.03
BH12[3]	12/29/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.28	5003.88
BH12	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.67	5003.49
BH12	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.83	5004.33
BH13	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	13.93	5002.20
BH13[3]	12/29/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	15.52	5000.61
BH13	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	16.10	5000.03
BH13	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	15.16	5000.97
BH14	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	16.22	4999.91
BH14[3]	12/29/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.37	4998.76
BH14	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.80	4998.33
BH14	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.20	4998.93
BH15	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.02	5004.91
BH15	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	18.55	4998.38
BH15	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	13.68	5003.25
BH15	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	13.03	5003.90
BH16	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.88	5002.48
BH16	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.24	4998.12
BH16	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	15.28	5000.08
BH16	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	14.39	5000.97
BH17	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.76	5004.69
BH17	12/12/2023	**5.8**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.11	5003.34
BH17	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.94	5002.51
BH17	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.83	5003.62
BH18	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.36	5006.06
BH18	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.39	5005.03
BH18	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.97	5004.45
BH18	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.41	5005.01
BH19	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	11.17	5005.65
BH19	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.65	5004.17
BH19	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	13.54	5003.28
BH19	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.79	5004.03
BH20	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.83	5005.74
BH20	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.30	5004.27
BH20	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	18.27	4998.30
BH20	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.38	5004.19
BH21	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	10.46	5005.55
BH21	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.24	5003.77
BH21	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	13.32	5002.69

TABLE 1
FORMER SEELE 31, 41, 42-31 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Groundwater Standard (µg/L) [1]		**5**	**560**	**700**	**1,400**	**140**	**67**	**67**	**-**	**-**
BH21	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	12.37	5003.64
BH22	9/15/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	16.21	5000.47
BH22	12/12/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.30	4999.38
BH22	3/19/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.77	4998.91
BH22	6/7/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.03	4999.65

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.

2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

3. Due to these monitoring wells being buried, sampling activities were completed on December 29, 2023.

TMB = Trimethylbenzene

ECMC = Colorado Energy and Carbon Management Commission

µg/L = Micrograms per liter

(<) = Analytical result is less than the indicated laboratory reporting limit.

ft. = Feet

AMSL = Above Mean Sea Level

BOLD = Analytical result is in exceedance of ECMC groundwater standard.

TABLE 2
FORMER SEELE 31, 41, 42-31 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC PARAMETERS

Sample ID	Date Sampled	TDS* (unit)	Chloride Ion* (mg/L)	Sulfate Ion* (mg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Groundwater Standard (mg/L) [1]		**<1.25 x BCKG**	**250 or <1.25 x BCKG**	**250 or <1.25 x BCKG**	**-**	**-**
BH12	9/15/2023	3,360	139	**1,920**	11.13	5005.03
BH12[3]	12/29/2023	3,300	135	**2,320**	12.28	5003.88
BH12	3/19/2024	2,670	106	**1,940**	12.67	5003.49
BH12	6/7/2024	3,030	116	**2,450**	11.83	5004.33
BH13	9/15/2023	3,380	169	**1,780**	13.93	5002.20
BH13[3]	12/29/2023	3,020	125	**1,940**	15.52	5000.61
BH13	3/19/2024	2,530	131	**1,590**	16.10	5000.03
BH13	6/7/2024	2,670	126	**1,910**	15.16	5000.97
BH14	9/15/2023	3,380	63.6	**2,100**	16.22	4999.91
BH14[3]	12/29/2023	3,380	103	**2,230**	17.37	4998.76
BH14	3/19/2024	2,780	109	**2,080**	17.80	4998.33
BH14	6/7/2024	3,100	96.0	**2,410**	17.20	4998.93
BH15	9/15/2023	2,020	24.0	832	12.02	5004.91
BH15	12/12/2023	1,990	25.8	1,170	18.55	4998.38
BH15	3/19/2024	2,700	77.4	2,250	13.68	5003.25
BH15	6/7/2024	2,280	42.7	1,660	13.03	5003.90
BH16	9/15/2023	3,350	139	**2,360**	12.88	5002.48
BH16	12/12/2023	3,270	148	**2,510**	17.24	4998.12
BH16	3/19/2024	2,880	148	**2,550**	15.28	5000.08
BH16	6/7/2024	3,230	143	**2,790**	14.39	5000.97
BH17	9/15/2023	**3,740**	**257**	**2,610**	10.76	5004.69
BH17	12/12/2023	3,400	227	**2,660**	12.11	5003.34
BH17	3/19/2024	3,070	241	**2,790**	12.94	5002.51
BH17	6/7/2024	3,260	233	**2,980**	11.83	5003.62
BH18	9/15/2023	1,540	37.0	420	10.36	5006.06
BH18	12/12/2023	1,110	118	351	11.39	5005.03
BH18	3/19/2024	1,290	23.8	560	11.97	5004.45
BH18	6/7/2024	1,180	13.2	484	11.41	5005.01
BH19	9/15/2023	2,820	45.6	1,500	11.17	5005.65
BH19	12/12/2023	2,500	33.0	1,540	12.65	5004.17
BH19	3/19/2024	3,170	98.2	2,960	13.54	5003.28
BH19	6/7/2024	3,400	82.0	2,920	12.79	5004.03
BH20	9/15/2023	3,480	149	**2,430**	10.83	5005.74

TABLE 2
FORMER SEELE 31, 41, 42-31 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC PARAMETERS

Sample ID	Date Sampled	TDS* (unit)	Chloride Ion* (mg/L)	Sulfate Ion* (mg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Groundwater Standard (mg/L) [1]		**<1.25 x BCKG**	**250 or <1.25 x BCKG**	**250 or <1.25 x BCKG**	**-**	**-**
BH20	12/12/2023	2,910	85.4	**2,430**	12.30	5004.27
BH20	3/19/2024	2,910	161	**2,290**	18.27	4998.30
BH20	6/7/2024	3,230	173	**2,850**	12.38	5004.19
BH21	9/15/2023	2,180	56.4	**1,290**	10.46	5005.55
BH21	12/12/2023	2,140	57.6	**1,570**	12.24	5003.77
BH21	3/19/2024	1,770	48.8	**1,230**	13.32	5002.69
BH21	6/7/2024	2,170	64.0	**1,880**	12.37	5003.64
BH22	9/15/2023	2,960	72.4	**1,740**	16.21	5000.47
BH22	12/12/2023	2,800	96.4	**1,880**	17.30	4999.38
BH22	3/19/2024	460	16.4	218	17.77	4998.91
BH22	6/7/2024	2,320	66.3	**1,760**	17.03	4999.65

Notes:

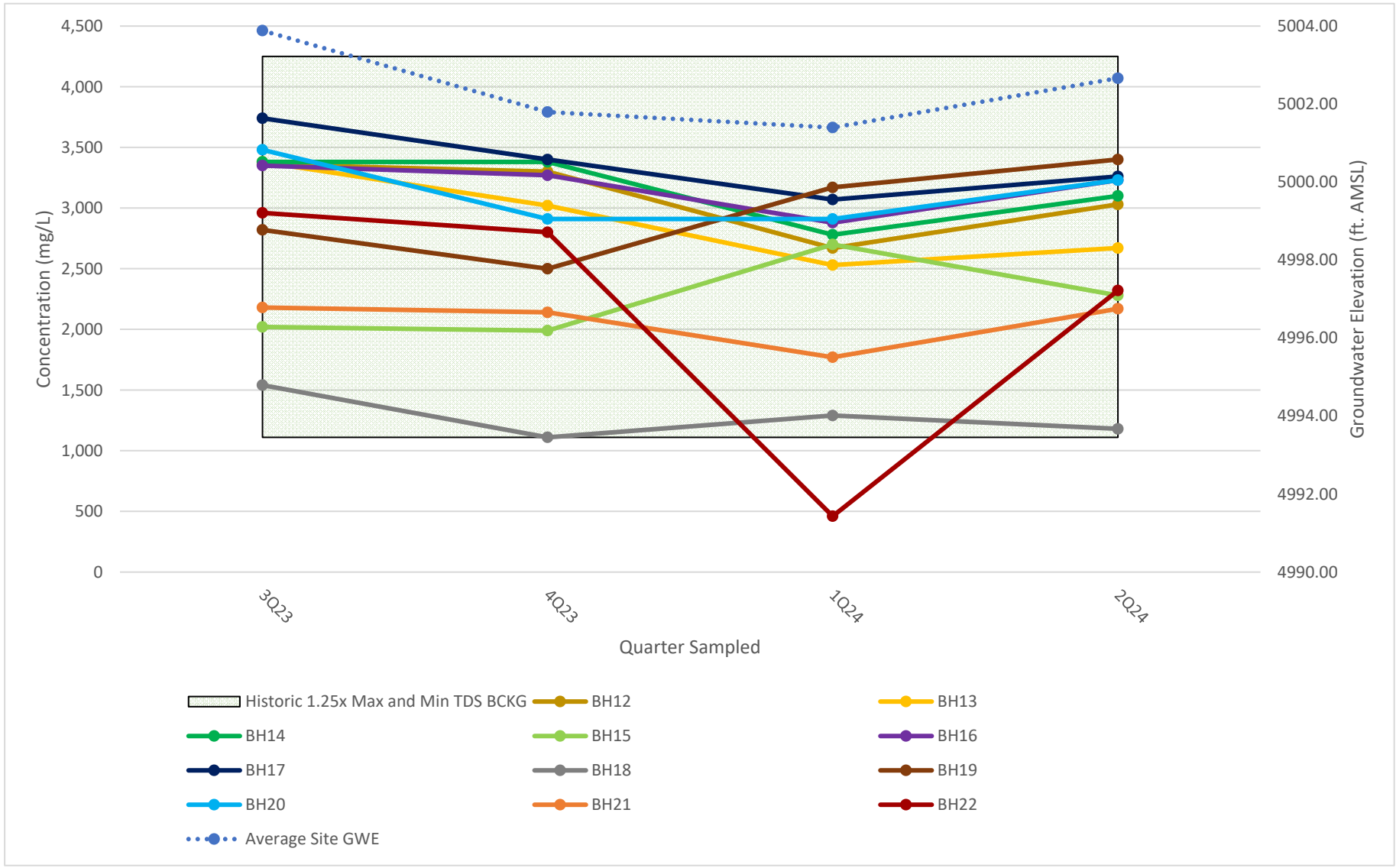
1. Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.
2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.
3. Due to these monitoring wells being buried, sampling activities were completed on December 29, 2023.

* = Maximum historic background concentration used to compare to site inorganic parameters.
TDS = Total dissolved solids
ECMC= Colorado Energy and Carbon Management Commission
BCKG = Background
mg/L = Milligrams per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
= Up-gradient well location used for background concentration.
= Historic up-gradient well locations used for background concentration.
BOLD = Analytical result is in exceedance of applicable standard.
BOLD = Analytical result is in exceedance of applicable standard, but within 1.25x background concentrations.

Attachment A

Former Seele 31, 41, 42-31 Tank Battery
TDS Concentrations vs Historic Background vs Groundwater Elevation

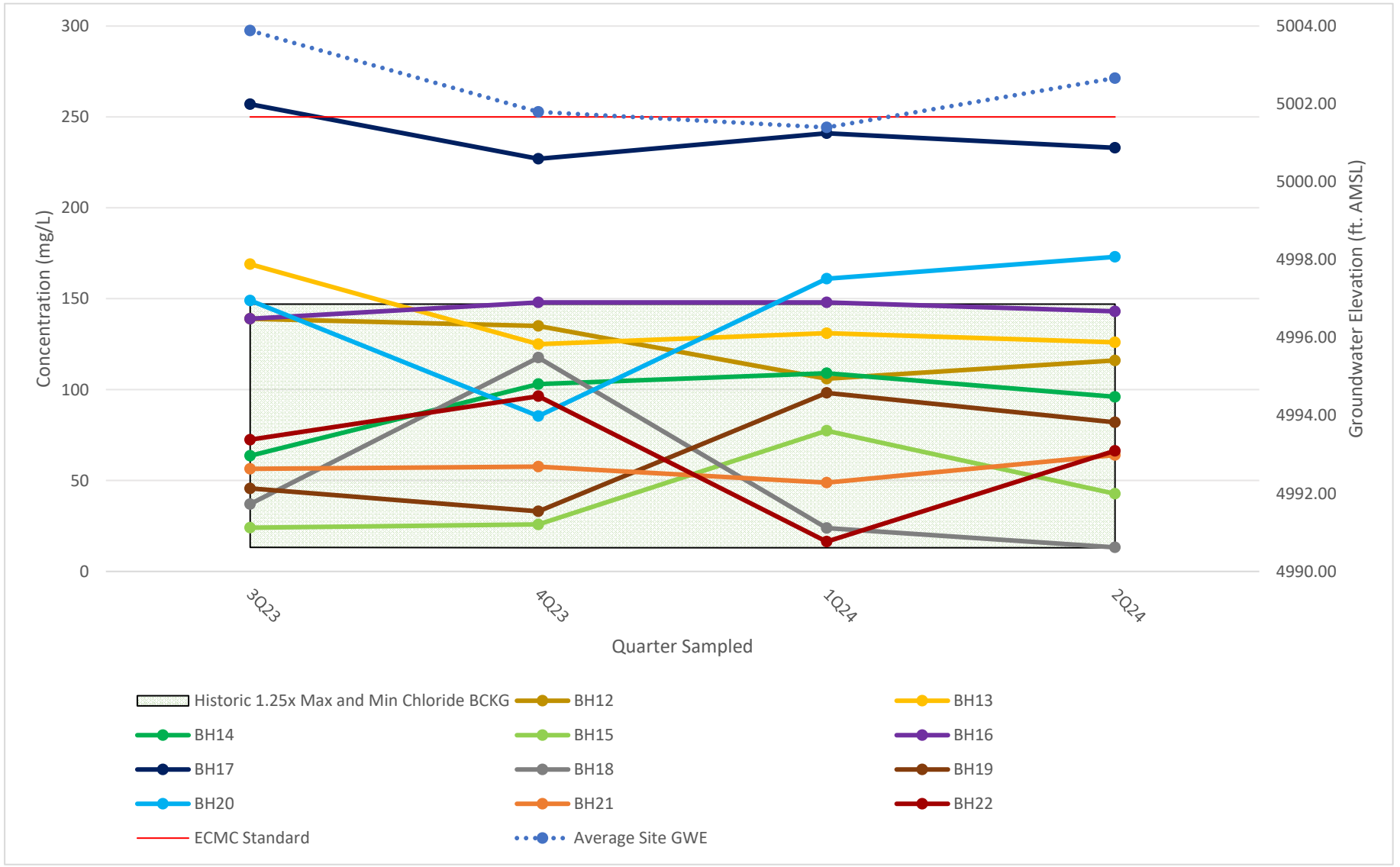
TASMAN



NOTES:
TDS = total dissolved solids
mg/L = milligrams per liter
BCKG = background
GWE = groundwater elevation
ft. AMSL = feet above mean sea level

Former Seele 31, 41, 42-31 Tank Battery
Chloride Concentrations vs Historic Background vs Groundwater Elevation

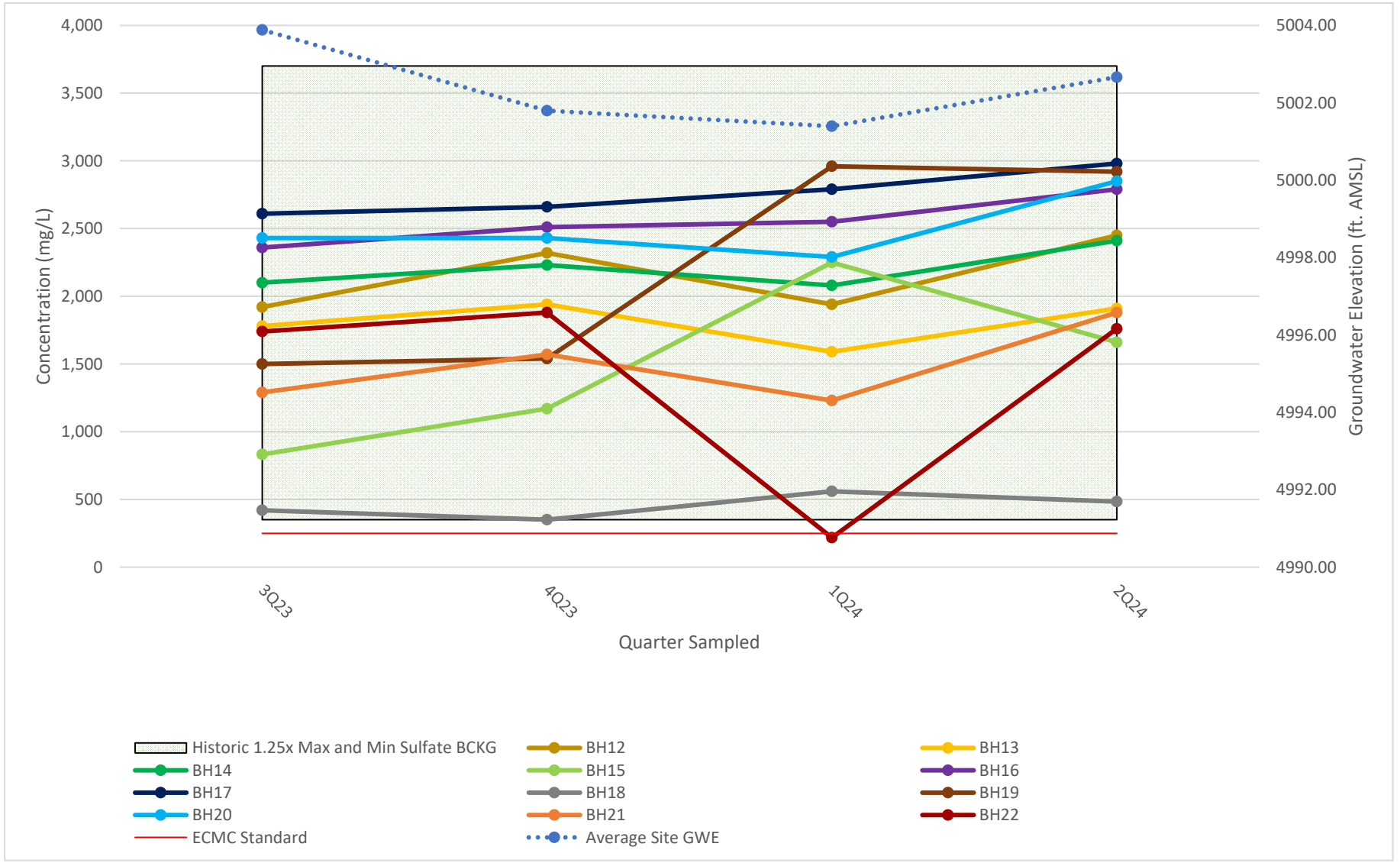
TASMAN



NOTES:
mg/L = milligrams per liter
BCKG = background
GWE = groundwater elevation
ft. AMSL = feet above mean sea level
ECMC = Colorado Energy and Carbon Management Commission

Former Seele 31, 41, 42-31 Tank Battery
Sulfate Concentrations vs Historic Background vs Groundwater Elevation

TASMAN



NOTES:
mg/L = milligrams per liter
BCKG = background
GWE = groundwater elevation
ft. AMSL = feet above mean sea level

Attachment B

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

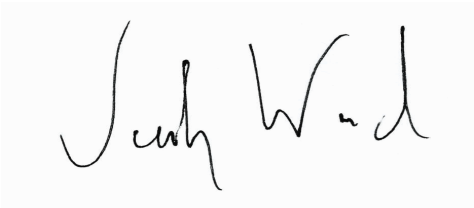
July 09, 2024

Karen Olson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020

RE: PDC - Seele 31,41,42-31
Work Order #2406107

Enclosed are the results of analyses for samples received by Summit Scientific on 06/07/24 17:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH12	2406107-01	Water	06/07/24 11:03	06/07/24 17:43
BH13	2406107-02	Water	06/07/24 11:04	06/07/24 17:43
BH14	2406107-03	Water	06/07/24 11:30	06/07/24 17:43
BH15	2406107-04	Water	06/07/24 11:36	06/07/24 17:43
BH16	2406107-05	Water	06/07/24 13:48	06/07/24 17:43
BH17	2406107-06	Water	06/07/24 13:53	06/07/24 17:43
BH18	2406107-07	Water	06/07/24 12:11	06/07/24 17:43
BH19	2406107-08	Water	06/07/24 13:16	06/07/24 17:43
BH20	2406107-09	Water	06/07/24 13:32	06/07/24 17:43
BH21	2406107-10	Water	06/07/24 10:23	06/07/24 17:43
BH22	2406107-11	Water	06/07/24 11:55	06/07/24 17:43

Summit Scientific

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

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2406107	

		Send Data To:		Send Invoice To:
Client:	PDC / Tasman	Project Manager:	Karen Olson	Company: PDC Energy
Address:	6855 W 119th Ave	E-Mail:	karen.olson@chevron.com	Project Name/Location:
City/State/Zip:	Broomfield / CO / 80220			AFE#:
Phone:	303-487-1228	Project Name:	Seele 31H1,42-31	PO/Billing Codes:
Sampler Name:	Loren Bohannan & Sylvie Bourget	Project Number:		Contact: Karen Olson

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	BTEXN	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4						
1	BH12	06-7-24	11:03	4	3		1		X				X	X	X						
2	BH13	"	11:04	"	"		"		"				"	"	"						
3	BH14	"	11:30	"	"		"		"				"	"	"						
4	BH15	"	11:36	"	"		"		"				"	"	"						
5	BH16	"	13:48	"	"		"		"				"	"	"						
6	BH17	"	13:33	"	"		"		"				"	"	"						
7	BH18	"	12:17	"	"		"		"				"	"	"						
8	BH19	"	13:16	"	"		"		"				"	"	"						
9	BH20	"	13:32	"	"		"		"				"	"	"						
10	BH21	"	10:23	"	"		"		"				"	"	"						
11	BH22	"	11:55	"	"		"		"				"	"	"						
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	06-07-24 / 3:38 pm		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Tasman Lockbox	6724 1743	[signature]	6724 1743
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days		Field DO	
Same Day		Field EC	
1 Day		Field ORP	
2 Days		Field pH	
3 Days		Field Temp.	
Standard	X	Field Turb.	

Notes:

Temperature Upon Receipt: 7.9 | Corrected Temperature 8 | IR gun #: 1 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2406107

Client: Pactasman Client Project ID: Seele 31,41,42-31

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: _____

[ ] [–] [ ] [ ] [ ]

Matrix (Check all that apply) Air [ ] Soil/Solid [ ] Water [ ] Other [ ]

Temp (°C) 7.9 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	–			ambient
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?	✓	–		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		–		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		✓		
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.	✓			HCl
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

(1) **If NO, then contact the client before proceeding with analysis and note in case narrative.**

AS
Custodian Printed Name

6/7/24
Date/Time

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH12

2406107-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.1	*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	*94.4 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 11:03**

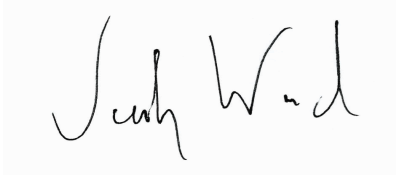
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**116**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2450**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3030**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH13

2406107-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.5	*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.0	*97.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.0	*90.3 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**126**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**1910**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**2670**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH14

2406107-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.5	*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.3	*92.0 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 11:30**

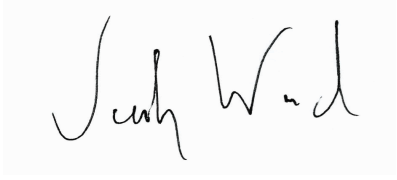
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**96.0**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2410**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3100**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH15

2406107-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.3	*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.5	*93.5 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 11:36**

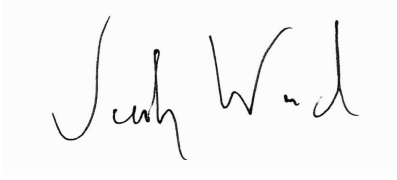
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**42.7**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**1660**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**2280**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH16

2406107-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.0	*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.3	*92.2 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**143**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2790**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3230**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	JAN

Summit Scientific

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH17

2406107-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.3	*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.3	*92.0 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 13:53**

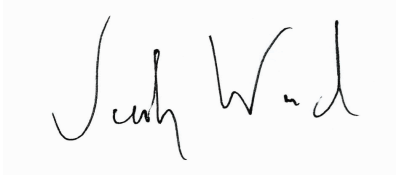
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**233**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2980**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3260**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH18

2406107-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.0	*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.4	*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	11.7	*88.1 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**13.2**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**484**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1180**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH19

2406107-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.4	*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.3	*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	11.2	*84.3 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 13:16**

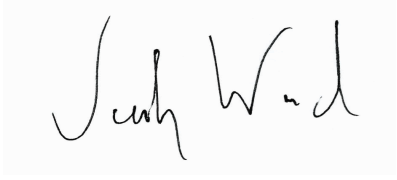
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**82.0**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2920**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3400**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH20

2406107-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.2	*99.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.2	*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	11.3	*85.1 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 13:32**

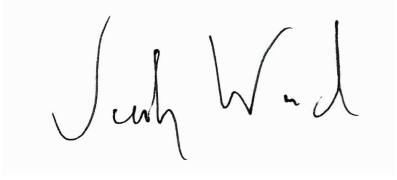
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**173**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**2850**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**3230**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH21

2406107-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.3	*99.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.2	*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	11.7	*87.5 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 10:23**

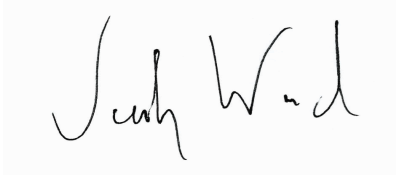
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**64.0**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**1880**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**2170**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

BH22

2406107-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BHF0300	06/11/24	06/12/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.8	*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.3	*99.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	11.6	*86.7 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **06/07/24 11:55**

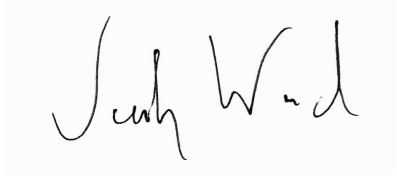
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**66.3**	12.0	mg/L	200	BHF0928	06/27/24	06/28/24	EPA 300.0	
Sulfate	**1760**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**2320**	10.0	mg/L	1	BHF0275	06/11/24	06/12/24	SM2540C	

Summit Scientific



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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0300 - EPA 5030 Water MS										
Blank (BHF0300-BLK1)				Prepared & Analyzed: 06/11/24						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*14.2*		*"*	*13.3*		*107*	*23-173*			
Surrogate: Toluene-d8	*13.6*		*"*	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.1*		*"*	*13.3*		*90.6*	*21-167*			
LCS (BHF0300-BS1)				Prepared & Analyzed: 06/11/24						
Benzene	38.8	1.0	ug/l	33.3		117	51-132			
Toluene	39.4	1.0	"	33.3		118	51-138			
Ethylbenzene	39.9	1.0	"	33.3		120	58-146			
m,p-Xylene	78.5	2.0	"	66.7		118	57-144			
o-Xylene	35.5	1.0	"	33.3		107	53-146			
Naphthalene	32.2	1.0	"	33.3		96.7	70-130			
1,2,4-Trimethylbenzene	38.4	1.0	"	33.3		115	70-130			
1,3,5-Trimethylbenzene	38.7	1.0	"	33.3		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	*14.7*		*"*	*13.3*		*110*	*23-173*			
Surrogate: Toluene-d8	*13.6*		*"*	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.4*		*"*	*13.3*		*92.8*	*21-167*			
Matrix Spike (BHF0300-MS1)	**Source: 2406066-01**			Prepared & Analyzed: 06/11/24						
Benzene	26.6	1.0	ug/l	33.3	ND	79.9	34-141			
Toluene	26.6	1.0	"	33.3	ND	79.9	27-151			
Ethylbenzene	26.2	1.0	"	33.3	ND	78.7	29-160			
m,p-Xylene	51.1	2.0	"	66.7	ND	76.7	20-166			
o-Xylene	23.3	1.0	"	33.3	ND	69.9	33-159			
Naphthalene	21.3	1.0	"	33.3	ND	64.0	70-130			QM-07
1,2,4-Trimethylbenzene	22.8	1.0	"	33.3	ND	68.5	70-130			QM-07
1,3,5-Trimethylbenzene	23.1	1.0	"	33.3	ND	69.3	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*14.7*		*"*	*13.3*		*111*	*23-173*			
Surrogate: Toluene-d8	*13.4*		*"*	*13.3*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.1*		*"*	*13.3*		*90.6*	*21-167*			

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0300 - EPA 5030 Water MS										
Matrix Spike Dup (BHF0300-MSD1)	**Source: 2406066-01**			Prepared & Analyzed: 06/11/24						
Benzene	19.2	1.0	ug/l	33.3	ND	57.5	34-141	32.6	30	QR-03
Toluene	18.8	1.0	"	33.3	ND	56.5	27-151	34.3	30	QR-03
Ethylbenzene	18.1	1.0	"	33.3	ND	54.3	29-160	36.7	30	QR-03
m,p-Xylene	35.2	2.0	"	66.7	ND	52.8	20-166	36.8	30	QR-03
o-Xylene	16.1	1.0	"	33.3	ND	48.3	33-159	36.4	30	QR-03
Naphthalene	14.0	1.0	"	33.3	ND	42.1	70-130	41.2	30	QM-07
1,2,4-Trimethylbenzene	15.9	1.0	"	33.3	ND	47.8	70-130	35.6	30	QM-07
1,3,5-Trimethylbenzene	16.0	1.0	"	33.3	ND	48.1	70-130	36.1	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	*15.0*		*"*	*13.3*		*112*	*23-173*			
Surrogate: Toluene-d8	*13.4*		*"*	*13.3*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.7*		*"*	*13.3*		*95.0*	*21-167*			

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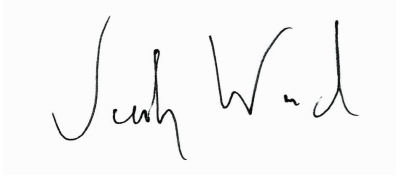
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0928 - General Preparation										
Blank (BHF0928-BLK1)				Prepared: 06/27/24 Analyzed: 06/28/24						
Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							
LCS (BHF0928-BS1)				Prepared: 06/27/24 Analyzed: 06/28/24						
Chloride	0.248	0.0600	mg/L	3.00		8.25	90-110			QM-01
Sulfate	1.41	0.300	"	15.0		9.38	90-110			QM-01
Duplicate (BHF0928-DUP1)		**Source: 2406107-01**		Prepared: 06/27/24 Analyzed: 06/28/24						
Chloride	112	12.0	mg/L		116			3.50	20	
Sulfate	2350	60.0	"		2450			4.31	20	
Matrix Spike (BHF0928-MS1)		**Source: 2406107-01**		Prepared: 06/27/24 Analyzed: 06/28/24						
Chloride	783	12.0	mg/L	600	116	111	80-120			
Sulfate	5690	60.0	"	3000	2450	108	80-120			

Summit Scientific



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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0275 - General Preparation										
Blank (BHF0275-BLK1)				Prepared: 06/11/24 Analyzed: 06/12/24						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BHF0275-DUP1)		**Source: 2406107-01**		Prepared: 06/11/24 Analyzed: 06/12/24						
Total Dissolved Solids	2920	10.0	mg/L		3030			3.83	20	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: PDC - Seele 31,41,42-31 Project Number: [none] Project Manager: Karen Olson	**Reported:** 07/09/24 09:18

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
JAN	The reported TDS concentration is a qualitative estimate based on Total Anion Value + 10%. This has been adjusted to account for the sum of major anions as measured by ion chromatography.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference