

**DCP GREELEY GAS PLANT SITE  
THIRD QUARTER 2020  
FORM 27 SUPPLEMENTAL GROUNDWATER MONITORING SUMMARY REPORT**

**ATTACHMENTS**

**Tables**

- 1 Summary of Soil Sample Analytical Results
- 2 Third Quarter 2020 Summary of Groundwater Elevation Data
- 3 Third Quarter 2020 Summary of BTEX Concentrations in Groundwater
- 4 Historical BTEX Concentrations in Groundwater

**Figures**

- 1 Site Location Map
- 2 Site Overview Map with Monitoring Well Locations
- 3 Soil Analytical Results Map – August 4, 2020
- 4 Groundwater Elevation Contour Map – August 19, 2020
- 5 Groundwater Analytical Results Map – August 19, 2020

**Appendices**

- A Laboratory Analytical Report
  - Origins Laboratory Job #: Y008036 (Soil)
  - Origins Laboratory Job #: Y008274 (Groundwater)
  - Origins Laboratory Job #: Y009277 (Groundwater)
- B Boring / Well Construction Logs (MW13 and MW14)

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**  
**DCP MIDSTREAM - GREELEY GAS PLANT**

Sample ID	Date Sampled	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg) <sup>2</sup>	Comments
<b>COGCC standards for Soil (mg/kg) <sup>(1)</sup></b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>	
MW11 @ 6-8'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW11 @ 8-10'	1/2/2020	0.3	<0.002	<0.002	<0.002	<0.002	<50.0	
MW11 @ 11-13'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 7-9'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 9-12'	1/2/2020	0.7	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 13-15'	1/2/2020	0.4	<0.002	<0.002	<0.002	<0.002	<50.0	

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 910-1, effective January 30, 2015.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

PID - Photoionization Detector

ppm - Parts per million

Bold values indicate an exceedance of the COGCC soil standards for the Site.

**TABLE 2**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP GREELEY GAS PLANT**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW01	11/13/2019	9.82	NM	--	13.70	4,678.49	4,668.67	-1.53
MW01	2/26/2020	11.11	NM	--	13.67	4,678.49	4,667.38	-1.29
MW01	5/27/2020	7.57	NM	--	13.67	4,678.49	4,670.92	3.54
MW01	8/19/2020	9.03	NM	--	13.67	4,678.49	4,669.46	-1.46
MW02	11/13/2019	10.58	NM	--	14.13	4,679.42	4,668.84	-1.53
MW02	2/26/2020	11.91	NM	--	14.14	4,679.42	4,667.51	-1.33
MW02	5/27/2020	8.40	NM	--	14.14	4,679.42	4,671.02	3.51
MW02	8/19/2020	9.89	NM	--	14.14	4,679.42	4,669.53	-1.49
MW03	11/13/2019	10.82	NM	--	14.65	4,679.67	4,668.85	-1.51
MW03	2/26/2020	12.08	NM	--	14.65	4,679.67	4,667.59	-1.26
MW03	5/27/2020	8.62	NM	--	14.65	4,679.67	4,671.05	3.46
MW03	8/19/2020	10.12	NM	--	14.65	4,679.67	4,669.55	-1.50
MW04	11/13/2019	10.69	NM	--	14.10	4,679.44	4,668.75	-1.53
MW04	2/26/2020	12.02	NM	--	14.11	4,679.44	4,667.42	-1.33
MW04	5/27/2020	8.47	NM	--	14.11	4,679.44	4,670.97	3.55
MW04	8/19/2020	9.96	NM	--	14.11	4,679.44	4,669.48	-1.49
MW05	11/13/2019	10.87	NM	--	14.29	4,679.79	4,668.92	-1.51
MW05	2/26/2020	12.14	NM	--	14.28	4,679.79	4,667.65	-1.27
MW05	5/29/2020	8.65	NM	--	14.28	4,679.79	4,671.14	3.49
MW05	8/19/2020	10.19	NM	--	14.28	4,679.79	4,669.60	-1.54
MW06	11/13/2019	10.50	NM	--	14.45	4,679.21	4,668.71	-1.55
MW06	2/26/2020	11.84	NM	--	14.45	4,679.21	4,667.37	-1.34
MW06	5/29/2020	8.31	NM	--	14.45	4,679.21	4,670.90	3.53
MW06	8/19/2020	9.79	NM	--	14.45	4,679.21	4,669.42	-1.48
MW06	9/21/2020	9.35	NM	--	14.45	4,679.21	4,669.86	0.44
MW07	11/13/2019	9.35	NM	--	13.72	4,678.01	4,668.66	-1.52
MW07	2/26/2020	10.56	NM	--	13.69	4,678.01	4,667.45	-1.21
MW07	5/27/2020	7.05	NM	--	13.69	4,678.01	4,670.96	3.51
MW07	8/19/2020	8.56	NM	--	13.69	4,678.01	4,669.45	-1.51
MW08	11/13/2019	8.49	NM	--	12.81	4,676.99	4,668.50	-2.09
MW08	2/26/2020	9.85	NM	--	12.81	4,676.99	4,667.14	-1.36
MW08	5/27/2020	6.30	NM	--	12.81	4,676.99	4,670.69	3.55
MW08	8/19/2020	7.62	NM	--	12.81	4,676.99	4,669.37	-1.32
MW09	11/13/2019	12.01	NM	--	13.85	4,680.86	4,668.85	-1.26
MW09	2/26/2020	13.35	NM	--	14.05	4,680.86	4,667.51	-1.34
MW09	5/29/2020	9.85	NM	--	14.05	4,680.86	4,671.01	3.50
MW09	8/19/2020	11.35	NM	--	14.05	4,680.86	4,669.51	-1.50
MW09	9/21/2020	10.95	NM	--	14.05	4,680.86	4,669.91	0.40
MW10	11/13/2019	11.04	NM	--	13.69	4,679.97	4,668.93	-1.26
MW10	2/26/2020	12.32	NM	--	13.18	4,679.97	4,667.65	-1.28
MW10	5/29/2020	8.84	NM	--	13.18	4,679.97	4,671.13	3.48
MW10	8/19/2020	10.37	NM	--	13.18	4,679.97	4,669.60	-1.53
MW11	2/26/2020	8.52	NM	--	12.08	4,675.64	4,667.12	NA

**TABLE 2  
SUMMARY OF GROUNDWATER ELEVATION DATA  
DCP GREELEY GAS PLANT  
WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW11	5/27/2020	5.01	NM	--	12.08	4,675.64	4,670.63	3.51
MW11	8/19/2020	6.25	NM	--	12.08	4,675.64	4,669.39	-1.24
MW12	2/26/2020	8.14	NM	--	14.40	4,675.29	4,667.15	NA
MW12	5/27/2020	4.76	NM	--	14.40	4,675.29	4,670.53	3.38
MW12	8/19/2020	5.95	NM	--	14.40	4,675.29	4,669.34	-1.19
MW13	8/19/2020	12.55	NM	--	14.29	4,682.15	4,669.60	NA
MW14	8/19/2020	15.07	NM	--	18.97	4,684.61	4,669.54	NA
Average change in groundwater elevation MW01 through MW12 (05/27/2020 through 08/19/2020)								-1.44

Notes:

1- Groundwater elevation was corrected for product thickness (when present) using the following calculation:

$$\text{Groundwater elevation} = (\text{TOC Elevation} - \text{Measured Depth to Water}) + (\text{LNAPL Thickness in Well} * \text{LNAPL Relative Density})$$

LNAPL relative density was assumed to be approximately 0.75

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

NA = Not Applicable

NM = Not Measured

**TABLE 3**  
**THIRD QUARTER 2020 BTEX CONCENTRATIONS IN GROUNDWATER**  
**DCP GREELEY GAS PLANT**  
**WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
MW01	8/19/2020	<b>243</b>	<1.00	170	425	
MW02	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW03	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW04	8/19/2020	<b>126</b>	25.8	112	460	
MW05	8/19/2020	1.85	<1.00	<1.00	<1.00	
MW06	8/19/2020	<b>125</b>	<1.00	<1.00	<1.00	
MW06	9/21/2020	<1.00	<1.00	97.0	533	3Q20 - Resample
MW07	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW08	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	9/21/2020	<1.00	<1.00	<1.00	<1.00	3Q20 - Resample
MW10	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW11	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW12	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW13	8/19/2020	4.58	2.01	<1.00	<1.00	
MW14	8/19/2020	<1.00	<1.00	<1.00	<1.00	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

**Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

**TABLE 4**  
**HISTORICAL SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**DCP GREELEY GAS PLANT**  
**WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
MW01	12/4/2018	<b>6,290</b>	27.8	512	<b>4,800</b>	
MW01	2/1/2019	<b>4,740</b>	<b>1,050</b>	648	<b>4,370</b>	
MW01	4/25/2019	<b>370</b>	49.3	38.0	624.5	
MW01	7/29/2019	<b>417</b>	28.9	224	666	
MW01	8/28/2019	<b>620</b>	<4.00	144	391	3Q19 - Resample
MW01	11/13/2019	<b>368</b>	20.3	228	684	
MW01	2/26/2020	<b>69.2</b>	<4.00	94.3	274	
MW01	5/27/2020	<b>112</b>	<1.00	159	351	
MW01	8/19/2020	<b>243</b>	<1.00	170	425	
MW02	12/4/2018	<b>24.1</b>	<1.00	<1.00	<1.00	
MW02	2/1/2019	<b>13.9</b>	<1.00	<1.00	<1.00	
MW02	4/25/2019	<b>823</b>	15.6	14.1	65.7	
MW02	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW02	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW02	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW02	2/26/2020	<4.00	<4.00	<4.00	<4.00	
MW02	5/27/2020	<b>40.0</b>	<10.0	<10.0	<10.0	
MW02	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW03	12/4/2018	<b>13.6</b>	<1.00	<1.00	<1.00	
MW03	2/1/2019	1.36	<1.00	<1.00	<1.00	
MW03	4/25/2019	<b>575</b>	<1.00	1.04	<1.00	
MW03	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW03	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW03	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW03	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW03	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW03	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW04	12/4/2018	<b>562</b>	66.7	244	<b>2,310</b>	
MW04	2/1/2019	<b>123</b>	7.96	230	<b>1,550</b>	
MW04	4/25/2019	<b>2,570</b>	53.3	235	<b>4,190</b>	
MW04	7/29/2019	<b>191</b>	<20.0	274	<b>2,300</b>	
MW04	8/28/2019	<b>37.3</b>	<1.00	157	727	3Q19 - Resample
MW04	11/13/2019	<b>261</b>	95.7	51.5	142	
MW04	2/26/2020	<b>51.5</b>	<10.0	31.0	123	
MW04	5/27/2020	<b>755</b>	437	369	<b>4,340</b>	
MW04	8/19/2020	<b>126</b>	25.8	112	460	
MW05	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW05	7/29/2019	<b>10.8</b>	<1.00	<1.00	<1.00	
MW05	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW05	11/13/2019	<b>16.7</b>	<1.00	<1.00	<1.00	
MW05	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW05	5/29/2020	<1.00	<1.00	<1.00	<1.00	
MW05	8/19/2020	1.85	<1.00	<1.00	<1.00	
MW06	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW06	7/29/2019	<b>194</b>	<1.00	258	<b>2,190</b>	
MW06	8/28/2019	<4.00	<4.00	<4.00	116	3Q19 - Resample
MW06	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW06	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW06	5/29/2020	<1.00	<1.00	<1.00	<1.00	
MW06	8/19/2020	<b>125</b>	<1.00	<1.00	<1.00	

**TABLE 4**  
**HISTORICAL SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**DCP GREELEY GAS PLANT**  
**WELD COUNTY, COLORADO**

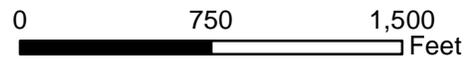
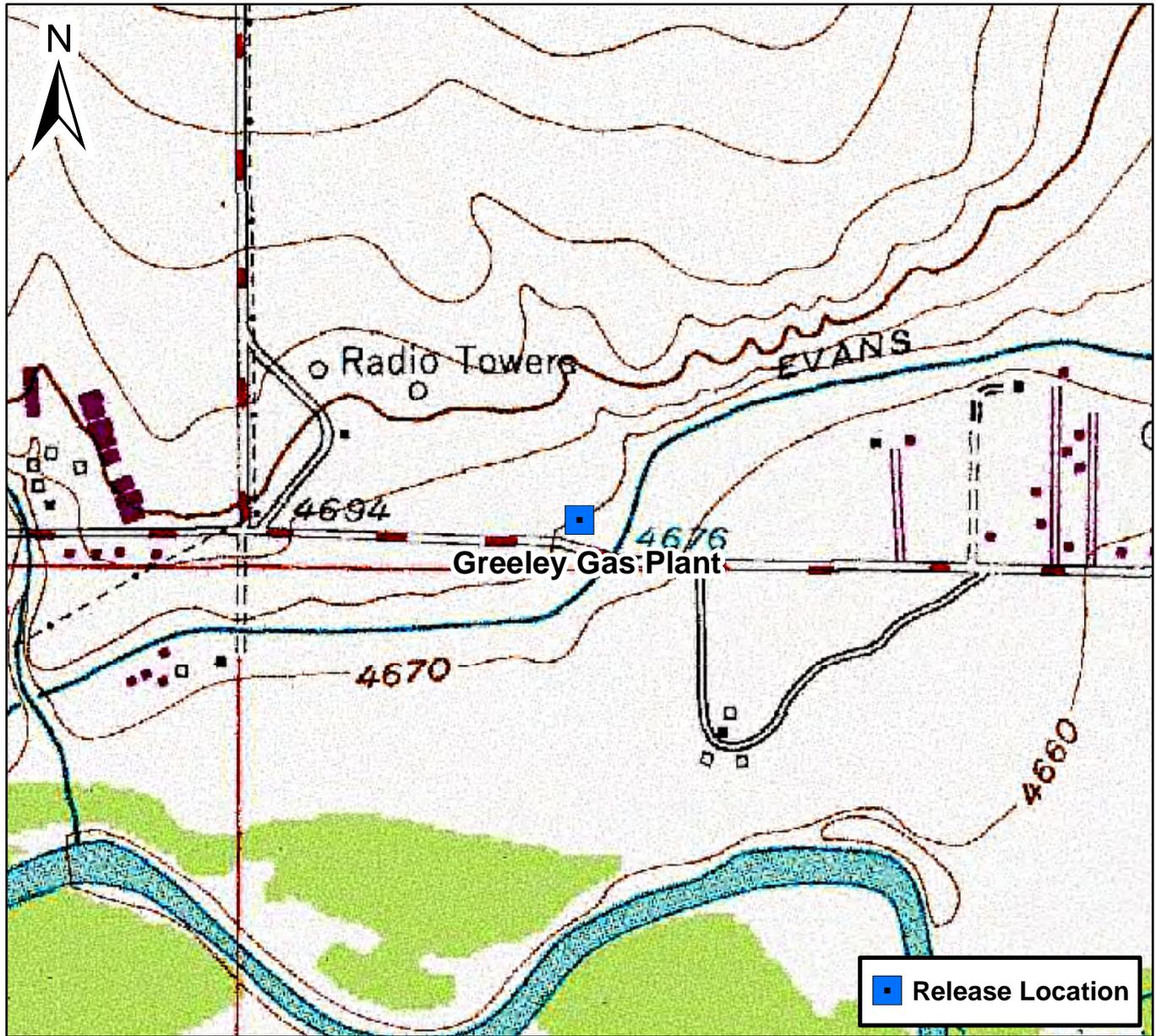
Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
MW06	9/21/2020	<1.00	<1.00	97.0	533	3Q20 - Resample
MW07	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW07	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW07	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW07	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW07	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW07	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW07	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW08	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW08	7/29/2019	<b>9.57</b>	<1.00	<1.00	<1.00	
MW08	8/28/2019	<b>14.2</b>	<4.00	<4.00	<4.00	3Q19 - Resample
MW08	11/13/2019	<b>12.9</b>	<1.00	<1.00	<1.00	
MW08	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW08	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW08	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	09/06/19	<4.00	<4.00	<4.00	<4.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW09	2/26/2020	<b>22.5</b>	<4.00	<4.00	<4.00	
MW09	5/29/2020	<b>31.1</b>	<1.00	<1.00	<1.00	
MW09	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	9/21/2020	<1.00	<1.00	<1.00	<1.00	3Q20 - Resample
MW10	09/06/19	<1.00	<1.00	<1.00	<1.00	
MW10	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW10	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW10	5/29/2020	2.71	<1.00	5.97	15.3	
MW10	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW11	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW11	5/27/2020	<4.00	<4.00	<4.00	<4.00	
MW11	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW12	2/26/2020	1.85	<1.00	<1.00	<1.00	
MW12	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW12	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW13	8/19/2020	4.58	2.01	<1.00	<1.00	
MW14	8/19/2020	<1.00	<1.00	<1.00	<1.00	
SW01	09/04/19	<1.00	<1.00	<1.00	<1.00	One-time sample from adjacent creek

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

**Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.

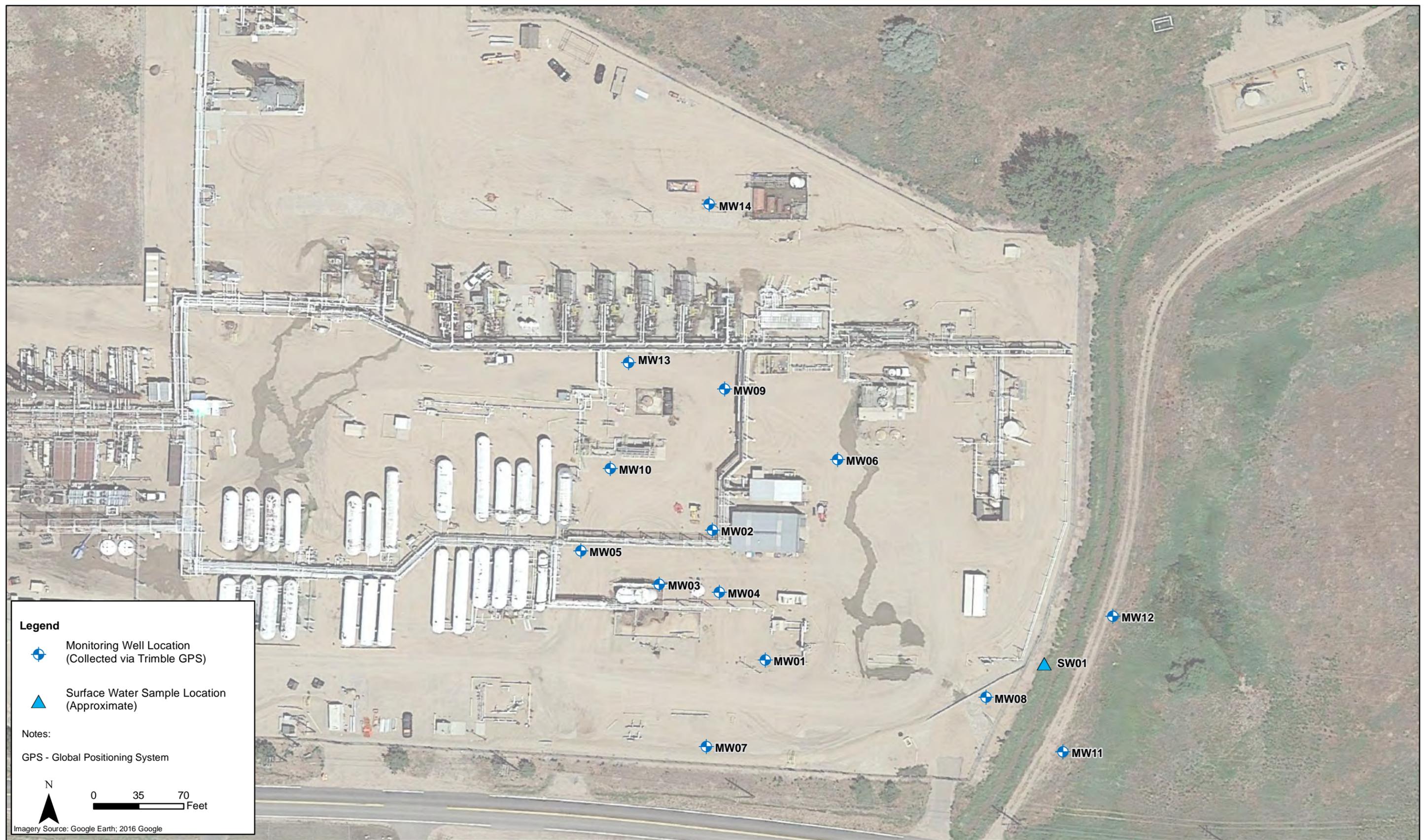
µg/L = micrograms per liter.



### Figure 1

Site Location Map  
 Greeley Gas Plant  
 SESW S25 T5N R66W  
 Weld County, Colorado





**Legend**

-  Monitoring Well Location  
(Collected via Trimble GPS)
-  Surface Water Sample Location  
(Approximate)

Notes:  
GPS - Global Positioning System

N  
0 35 70  
Feet  
Imagery Source: Google Earth; 2016 Google

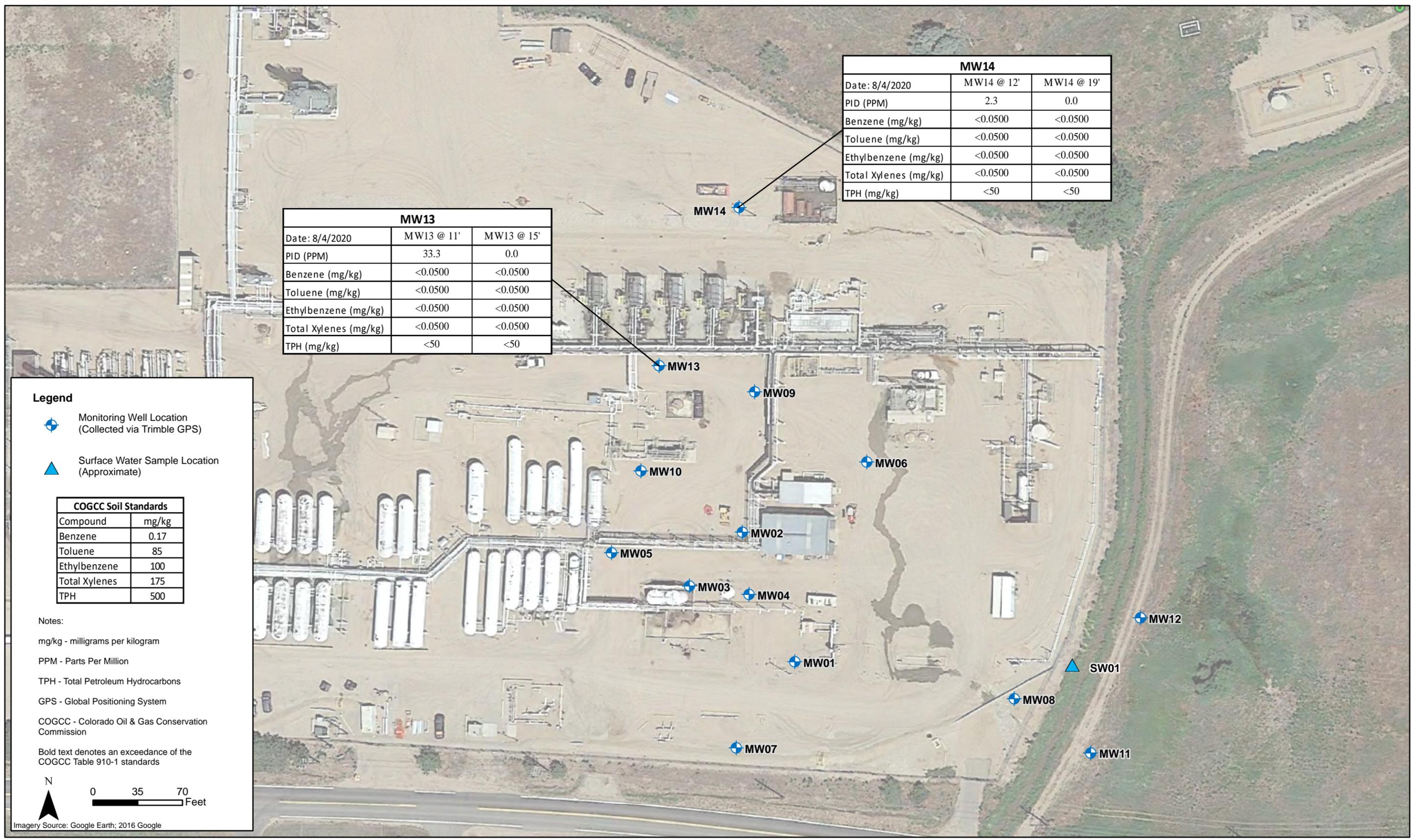
DATE: February 2020  
DESIGNED BY: B. Humphrey  
DRAWN BY: J. Clonts

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

**DCP Midstream  
Greeley Gas Plant**  
SESW Section 25, Township 5 North, Range 66 West  
Weld County, Colorado

Site Overview  
Map

Figure  
2



MW13		
Date: 8/4/2020	MW13 @ 11'	MW13 @ 15'
PID (PPM)	33.3	0.0
Benzene (mg/kg)	<0.0500	<0.0500
Toluene (mg/kg)	<0.0500	<0.0500
Ethylbenzene (mg/kg)	<0.0500	<0.0500
Total Xylenes (mg/kg)	<0.0500	<0.0500
TPH (mg/kg)	<50	<50

MW14		
Date: 8/4/2020	MW14 @ 12'	MW14 @ 19'
PID (PPM)	2.3	0.0
Benzene (mg/kg)	<0.0500	<0.0500
Toluene (mg/kg)	<0.0500	<0.0500
Ethylbenzene (mg/kg)	<0.0500	<0.0500
Total Xylenes (mg/kg)	<0.0500	<0.0500
TPH (mg/kg)	<50	<50

**Legend**

- Monitoring Well Location (Collected via Trimble GPS)
- Surface Water Sample Location (Approximate)

COGCC Soil Standards	
Compound	mg/kg
Benzene	0.17
Toluene	85
Ethylbenzene	100
Total Xylenes	175
TPH	500

Notes:  
 mg/kg - milligrams per kilogram  
 PPM - Parts Per Million  
 TPH - Total Petroleum Hydrocarbons  
 GPS - Global Positioning System  
 COGCC - Colorado Oil & Gas Conservation Commission  
 Bold text denotes an exceedance of the COGCC Table 910-1 standards



Imagery Source: Google Earth; 2016 Google

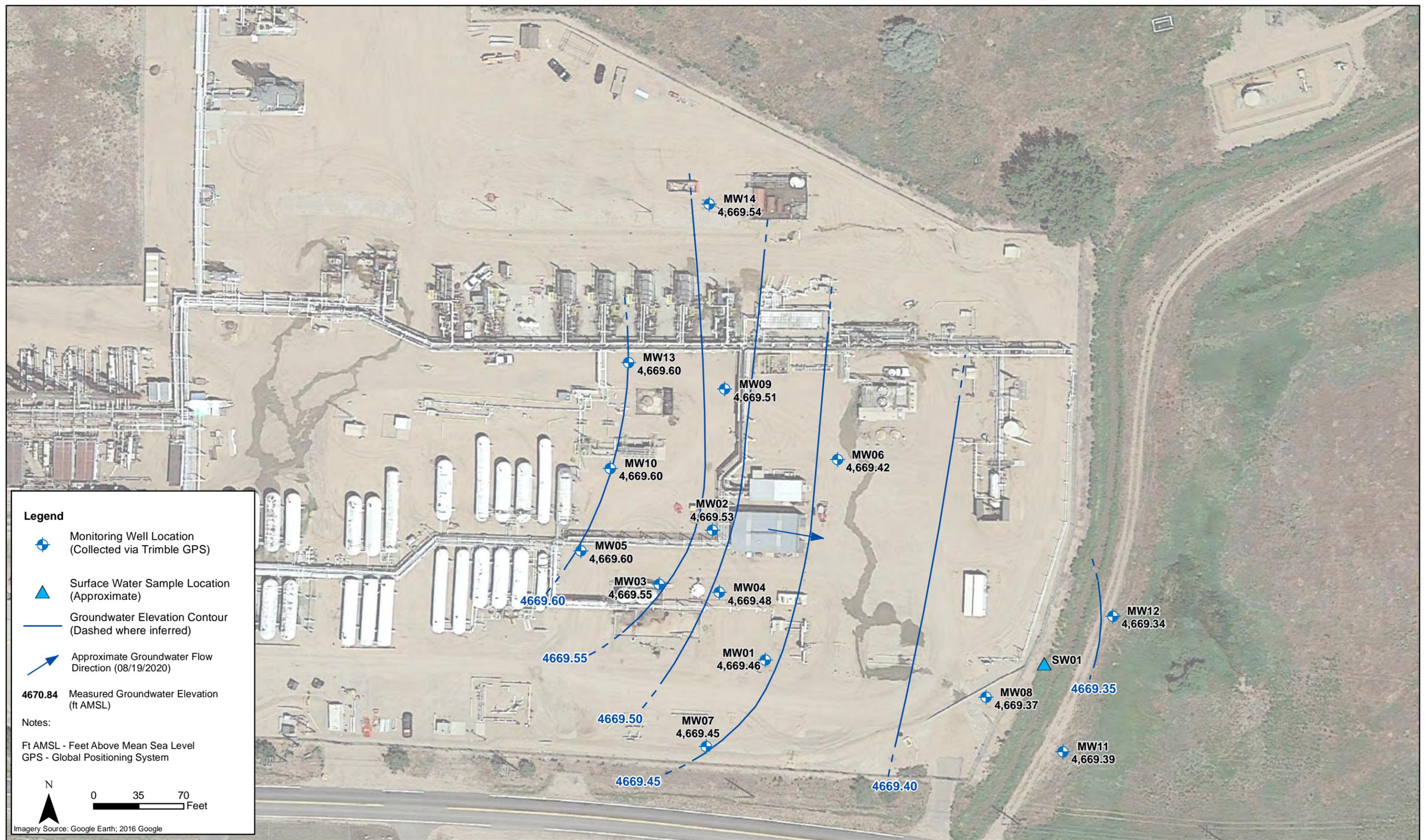
DATE:	August 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

**TASMAN** Tasman Geosciences, Inc  
 6855 W. 119th Ave  
 GEOSCIENCES Broomfield, CO 80020

**DCP Midstream  
 Greeley Gas Plant**  
 SESW Section 25, Township 5 North, Range 66 West  
 Weld County, Colorado

Soil Analytical Results  
 Map

Figure  
 3



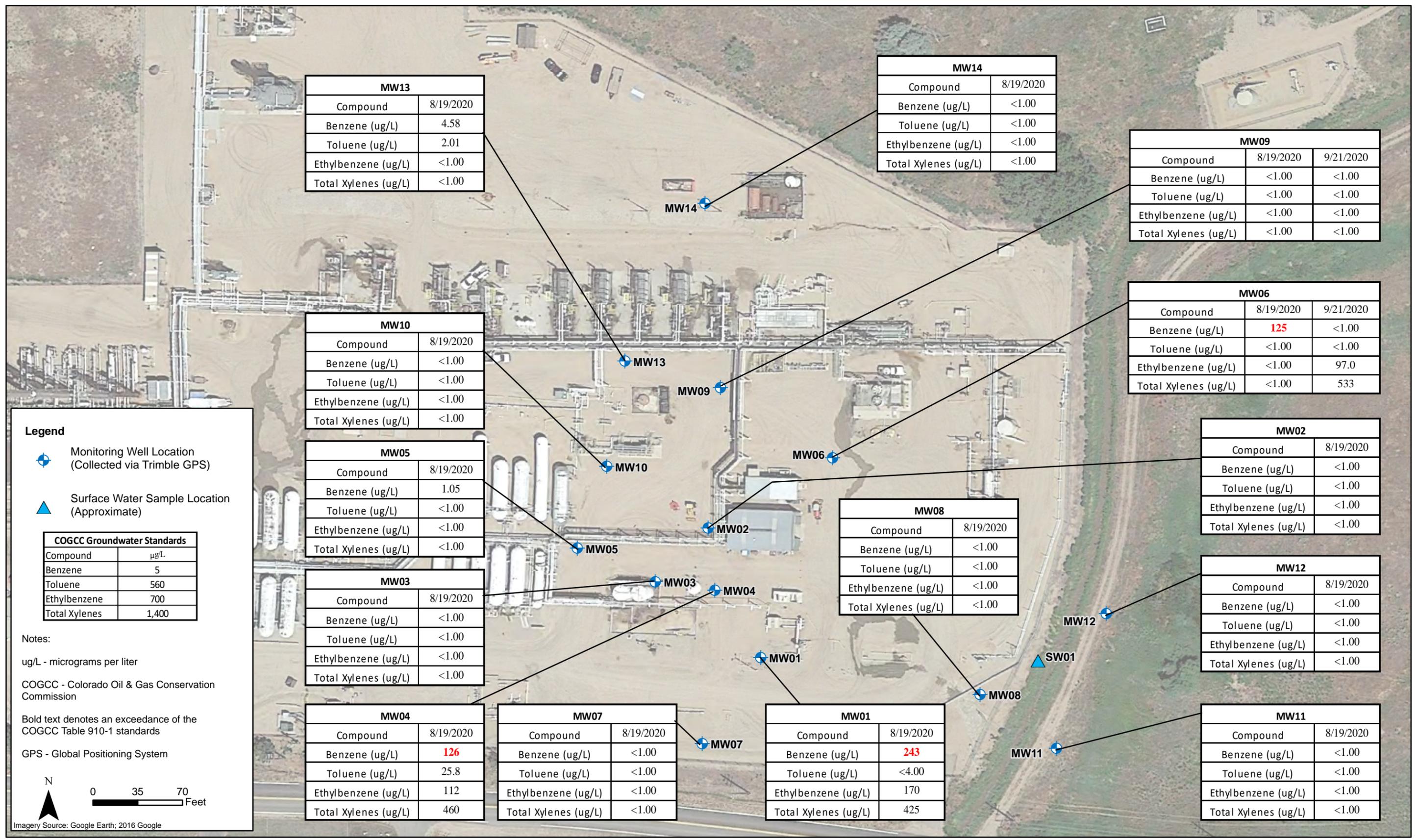
DATE: August 2020  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream  
 Greeley Gas Plant**  
 SESW Section 25, Township 5 North, Range 66 West  
 Weld County, Colorado

Groundwater Elevation  
 Contour Map  
 (August 19, 2020)

Figure  
 4



MW13	
Compound	8/19/2020
Benzene (ug/L)	4.58
Toluene (ug/L)	2.01
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW14	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW09		
Compound	8/19/2020	9/21/2020
Benzene (ug/L)	<1.00	<1.00
Toluene (ug/L)	<1.00	<1.00
Ethylbenzene (ug/L)	<1.00	<1.00
Total Xylenes (ug/L)	<1.00	<1.00

MW10	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW06		
Compound	8/19/2020	9/21/2020
Benzene (ug/L)	<b>125</b>	<1.00
Toluene (ug/L)	<1.00	<1.00
Ethylbenzene (ug/L)	<1.00	97.0
Total Xylenes (ug/L)	<1.00	533

MW05	
Compound	8/19/2020
Benzene (ug/L)	1.05
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW02	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW08	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW03	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW12	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW04	
Compound	8/19/2020
Benzene (ug/L)	<b>126</b>
Toluene (ug/L)	25.8
Ethylbenzene (ug/L)	112
Total Xylenes (ug/L)	460

MW07	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

MW01	
Compound	8/19/2020
Benzene (ug/L)	<b>243</b>
Toluene (ug/L)	<4.00
Ethylbenzene (ug/L)	170
Total Xylenes (ug/L)	425

MW11	
Compound	8/19/2020
Benzene (ug/L)	<1.00
Toluene (ug/L)	<1.00
Ethylbenzene (ug/L)	<1.00
Total Xylenes (ug/L)	<1.00

DATE: August 2020  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream  
 Greeley Gas Plant**  
 SESW Section 25, Township 5 North, Range 66 West  
 Weld County, Colorado

Groundwater Analytical Map  
 (August 19 & September 21,  
 2020)

Figure  
 5



August 12, 2020

**Tasman Geosciences**

**Brian Humphrey**

**6855 West 119th Avenue**

**Broomfield CO 80020**

**Project Name - DCP - Greeley Gas Plant**

**Project Number - [none]**

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. August 04, 2020. This project is associated with Origins project number Y008036-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW13@11'	Y008036-01	Soil	August 4, 2020 10:45	08/04/2020 17:30
MW13@15'	Y008036-02	Soil	August 4, 2020 10:50	08/04/2020 17:30
MW14@12'	Y008036-03	Soil	August 4, 2020 11:30	08/04/2020 17:30
MW14@19'	Y008036-04	Soil	August 4, 2020 11:45	08/04/2020 17:30

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

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page 1 of 1

Y008036

**ORIGINS**  
 LABORATORY, INC

Client: DCP / TRISMAN  
 Address: 6855 W 119TH AVE  
 BROOMFIELD, CO 80020  
 Telephone Number: 303-520-0298  
 Email Address: brian@originslab.com  
 www.originslab.com

Project Manager: B. HUMPHREY / S. MATHIS  
 Project Name: DCP - GREELEY GP  
 Project Number: DCP - GREELEY GP  
 Samples Collected By: J. MATHIS

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil			Air / Surface
MWIS e 11'	8-4-20	1045	1 X					X				1
MWIS e 15'	8-4-20	1050	1 X					X				2
MWIS e 12'	8-4-20	1130	1 X					X				3
MWIS e 14'	8-4-20	1145	1 X					X				4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature]  
 Date: 8-4-20

Received By: [Signature]  
 Date: 8-4-20

Time: 1730

Turnaround Time:  
 Same Day  24 Hr   
 48 Hr  Standard

Date Results Needed

4.9

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: Y008036 Client: Tasman  
 Client Project ID: DCP-Greeley GP

Checklist Completed by: SKK Shipped Via: HD  
 Date/time completed: 08/05/2020 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NTA

Matrix(s) Received: (Check all that apply): Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, 4.9 °C 1 °C 1 °C 1 °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			-	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			-	
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			-	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water—is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			-	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

  
 Reviewed by (Project Manager) 8-6-20  
Date/Time Reviewed

Origins Laboratory, Inc.  


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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

MW13@11'  
 8/4/2020 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y008036-01 (Soil)

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/05/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	62.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW13@15'**  
**8/4/2020 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y008036-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/05/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>7.91</b>	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	59.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW14@12'**  
**8/4/2020 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008036-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/06/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	59.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW14@19'**  
**8/4/2020 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008036-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/06/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	61.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B0H0505 - EPA 5030 (soil)**

**Blank (B0H0505-BLK1)**

Prepared: 08/05/2020 Analyzed: 08/05/2020

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.5</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>103</i>	<i>70-130</i>			

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0H0505 - EPA 5030 (soil)**

**LCS (B0H0505-BS1)**

Prepared: 08/05/2020 Analyzed: 08/05/2020

Benzene	0.104	0.00200	mg/kg	0.100		104	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0H0505 - EPA 5030 (soil)

Matrix Spike (B0H0505-MS1)	Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020						
Benzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
Toluene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130			
m,p-Xylene	0.245	0.00400	"	0.200	ND	123	70-130			
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0H0505 - EPA 5030 (soil)

Matrix Spike Dup (B0H0505-MSD1)	Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020						
Benzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130	1.91	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	0.962	20	
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	4.27	20	
m,p-Xylene	0.234	0.00400	"	0.200	ND	117	70-130	4.52	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	4.88	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0H0506 - EPA 3580</b>										
<b>Blank (B0H0506-BLK1)</b>										
					Prepared: 08/05/2020 Analyzed: 08/05/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	17		"	25.0		68.0	50-150			

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B0H0506 - EPA 3580**

**LCS (B0H0506-BS1)**

Prepared: 08/05/2020 Analyzed: 08/05/2020

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	70-130			
Surrogate: <i>o</i> -Terphenyl	39		"	50.0		77.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B0H0506 - EPA 3580**

<b>Matrix Spike (B0H0506-MS1)</b>	<b>Source: Y008036-01</b>			Prepared: 08/05/2020 Analyzed: 08/05/2020						
Diesel (C10-C28)	794	50.0	mg/kg	1000	ND	79.4	70-130			
Surrogate: o-Terphenyl	32		"	50.0		64.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0H0506 - EPA 3580</b>										
<b>Matrix Spike Dup (B0H0506-MSD1)</b>		<b>Source: Y008036-01</b>			Prepared: 08/05/2020 Analyzed: 08/05/2020					
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	70-130	12.7	35	
Surrogate: o-Terphenyl	38		"	50.0		76.5	50-150			

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*



August 26, 2020

**Tasman Geosciences**

**Brian Humphrey**

**6855 West 119th Avenue**

**Broomfield CO 80020**

**Project Name - DCP - Greeley Gas Plant**

**Project Number - [none]**

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. August 19, 2020. This project is associated with Origins project number Y008274-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y008274-01	Water	August 19, 2020 14:04	08/19/2020 16:30
MW02	Y008274-02	Water	August 19, 2020 13:52	08/19/2020 16:30
MW03	Y008274-03	Water	August 19, 2020 13:41	08/19/2020 16:30
MW04	Y008274-04	Water	August 19, 2020 14:14	08/19/2020 16:30
MW05	Y008274-05	Water	August 19, 2020 13:31	08/19/2020 16:30
MW06	Y008274-06	Water	August 19, 2020 13:00	08/19/2020 16:30
MW07	Y008274-07	Water	August 19, 2020 12:09	08/19/2020 16:30
MW08	Y008274-08	Water	August 19, 2020 11:24	08/19/2020 16:30
MW09	Y008274-09	Water	August 19, 2020 12:50	08/19/2020 16:30
MW10	Y008274-10	Water	August 19, 2020 13:21	08/19/2020 16:30
MW11	Y008274-11	Water	August 19, 2020 14:38	08/19/2020 16:30
MW12	Y008274-12	Water	August 19, 2020 14:48	08/19/2020 16:30
MW13	Y008274-13	Water	August 19, 2020 12:38	08/19/2020 16:30
MW14	Y008274-14	Water	August 19, 2020 12:24	08/19/2020 16:30

Origins Laboratory, Inc.



*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.*

---

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

---

Origins Laboratory, Inc.



*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.*





Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: y008274 Client: Tasman  
 Client Project ID: Greeley Gas Plant

Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 8/20/20 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, 15.9 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>See Ref</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jm  
 Reviewed By (Project Manager)

8-21-20  
 Date/Time Reviewed

Origins Laboratory, Inc.



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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW01**

**8/19/2020 2:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-01 (Water)**

**BTEX by EPA 8260D**

Benzene	243	4.00	ug/L	4	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	170	4.00	"	"	"	KDK	"	"	
Xylenes, total	425	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW02**

**8/19/2020 1:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW03**

**8/19/2020 1:41:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW04**

**8/19/2020 2:14:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-04 (Water)**

**BTEX by EPA 8260D**

Benzene	126	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	25.8	1.00	"	"	"	KDK	"	"	
Ethylbenzene	112	10.0	"	10	"	KDK	"	08/21/2020	
Xylenes, total	460	10.0	"	"	"	KDK	"	08/20/2020	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		"	
Surrogate: Toluene-d8	127 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW05**

**8/19/2020 1:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-05 (Water)**

**BTEX by EPA 8260D**

Benzene	1.05	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW06**

**8/19/2020 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-06 (Water)**

**BTEX by EPA 8260D**

Benzene	125	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW07**

**8/19/2020 12:09:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-07 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW08**

**8/19/2020 11:24:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-08 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW09**

**8/19/2020 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-09 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW10**

**8/19/2020 1:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-10 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW11**

**8/19/2020 2:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-11 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW12**

**8/19/2020 2:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-12 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



*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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW13**

**8/19/2020 12:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-13 (Water)**

**BTEX by EPA 8260D**

Benzene	4.58	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	2.01	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW14**

**8/19/2020 12:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y008274-14 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0H2003 - EPA 5030B (Water)**

**Blank (B0H2003-BLK1)**

Prepared: 08/20/2020 Analyzed: 08/20/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.0		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.4		70-130			

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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0H2003 - EPA 5030B (Water)

**LCS (B0H2003-BS1)**

Prepared: 08/20/2020 Analyzed: 08/20/2020

Benzene	44.0	1.00	ug/L	50.0		87.9	70-130			
Toluene	42.9	1.00	"	50.0		85.8	70-130			
Ethylbenzene	44.7	1.00	"	50.0		89.4	70-130			
m,p-Xylene	86.8	2.00	"	100		86.8	70-130			
o-Xylene	41.4	1.00	"	50.0		82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0H2003 - EPA 5030B (Water)

Matrix Spike (B0H2003-MS1)	Source: Y008284-01			Prepared: 08/20/2020 Analyzed: 08/21/2020						
Benzene	44.0	1.00	ug/L	50.0	ND	88.0	70-130			
Toluene	43.8	1.00	"	50.0	ND	87.6	70-130			
Ethylbenzene	44.7	1.00	"	50.0	ND	89.3	70-130			
m,p-Xylene	87.9	2.00	"	100	0.340	87.5	70-130			
o-Xylene	42.8	1.00	"	50.0	ND	85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0H2003 - EPA 5030B (Water)

Matrix Spike Dup (B0H2003-MSD1)	Source: Y008284-01			Prepared: 08/20/2020 Analyzed: 08/20/2020						
Benzene	41.1	1.00	ug/L	50.0	ND	82.2	70-130	6.79	20	
Toluene	40.4	1.00	"	50.0	ND	80.7	70-130	8.17	20	
Ethylbenzene	41.3	1.00	"	50.0	ND	82.7	70-130	7.77	20	
m,p-Xylene	80.6	2.00	"	100	0.340	80.3	70-130	8.57	20	
o-Xylene	39.8	1.00	"	50.0	ND	79.6	70-130	7.41	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

---

**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*



September 24, 2020

**Tasman Geosciences**

**Brian Humphrey**

**6855 West 119th Avenue**

**Broomfield CO 80020**

**Project Name - DCP - Greeley Gas Plant**

**Project Number - [none]**

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. September 21, 2020. This project is associated with Origins project number Y009277-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW06	Y009277-01	Water	September 21, 2020 13:15	09/21/2020 15:03
MW09	Y009277-02	Water	September 21, 2020 13:25	09/21/2020 15:03

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y000277

Client: Tasman

Client Project ID: DCP - Greeley Gas Plant

Checklist Completed by: jm  
 Date/time completed: 9/21/2020

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid X Water          Other:          (Describe)

Cooler Number/Temperature: 1 B1 °C          °C          °C          °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		X		Same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			X	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X		X	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.				
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	X			HCl
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

jm  
 Reviewed by (Project Manager)

9-22-20  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW06**

**9/21/2020 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y009277-01 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B012104	KDK	09/21/2020	09/24/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>97.0</b>	1.00	"	"	"	KDK	"	"	
Xylenes, total	<b>533</b>	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**MW09**

**9/21/2020 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y009277-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B012104	KDK	09/21/2020	09/24/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0I2104 - EPA 5030B (Water)**

**Blank (B0I2104-BLK1)**

Prepared: 09/21/2020 Analyzed: 09/24/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.0		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B012104 - EPA 5030B (Water)**

**LCS (B012104-BS1)**

Prepared: 09/21/2020 Analyzed: 09/24/2020

Benzene	44.5	1.00	ug/L	50.0		88.9	70-130			
Toluene	44.0	1.00	"	50.0		88.0	70-130			
Ethylbenzene	43.6	1.00	"	50.0		87.1	70-130			
m,p-Xylene	87.3	2.00	"	100		87.3	70-130			
o-Xylene	44.8	1.00	"	50.0		89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B012104 - EPA 5030B (Water)**

<b>Matrix Spike (B012104-MS1)</b>	<b>Source: Y009264-01</b>			<b>Prepared: 09/21/2020 Analyzed: 09/24/2020</b>						
Benzene	54.8	1.00	ug/L	50.0	ND	110	70-130			
Toluene	47.3	1.00	"	50.0	ND	94.7	70-130			
Ethylbenzene	47.4	1.00	"	50.0	ND	94.9	70-130			
m,p-Xylene	94.6	2.00	"	100	ND	94.6	70-130			
o-Xylene	49.8	1.00	"	50.0	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Greeley Gas Plant

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0I2104 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B0I2104-MSD1)</b>	<b>Source: Y009264-01</b>			<b>Prepared: 09/21/2020 Analyzed: 09/24/2020</b>						
Benzene	57.9	1.00	ug/L	50.0	ND	116	70-130	5.54	20	
Toluene	49.9	1.00	"	50.0	ND	99.8	70-130	5.23	20	
Ethylbenzene	50.4	1.00	"	50.0	ND	101	70-130	6.03	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	6.48	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	70-130	4.99	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>70</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>98.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>68</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>70-130</i>			

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Greeley Gas Plant

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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