

**PDC Energy, Inc.**  
**Third Quarter 2021 Groundwater Monitoring Summary**

August 31, 2021

Former Latham 2-31 & Latham Reservoir 1 Tank Battery  
SESW SEC 2 T4N R65W  
Remediation # 16260

This groundwater monitoring summary has been prepared by Tasman Geosciences, Inc. for the former Latham 2-31 & Latham Reservoir 1 tank battery. On August 23, 2021, groundwater monitoring was conducted at all 9 monitoring wells (BH01 - BH09). Nine groundwater samples were submitted to Summit Scientific Laboratories (Summit) for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1, 2, 4-Trimethylbenzene (TMB), 1, 3, 5-TMB by EPA Method 8260B, total dissolved solids (TDS), by Method SM 2540C, chloride, and sulfate anions by EPA Method 300.0.

Third quarter 2021 analytical results indicated that the benzene concentration was above the applicable COGCC Table 915-1 groundwater standards in monitoring well BH04. Organic compound concentrations were below regulatory standards in the eight remaining monitoring well locations. Inorganic compound concentrations were in exceedance of the applicable regulatory standards and above 1.25x the concentration of the up-gradient monitoring well (BH01) in all monitoring well locations. 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 A.

Monitored natural attenuation (MNA) was selected as the remediation strategy for this site during third quarter 2020 and will remain the selected remediation strategy through the fourth quarter 2021.

Fourth quarter 2021 groundwater sampling will be conducted in November 2021.



BH06		
Compound (µg/L)	5/19/2021	8/23/2021
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)	2.65	4.83

BH05		
Compound (µg/L)	5/19/2021	8/23/2021
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)	3.00	5.14

BH04		
Compound (µg/L)	5/19/2021	8/23/2021
Benzene	530	250
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	26
Total Xylenes	480	110
Naphthalene	4.9	<1.0
1,2,4-TMB	70	18
1,3,5-TMB	76	12
Depth to Water (ft. bgs)	2.93	5.08

BH08		
Compound (µg/L)	5/19/2021	8/23/2021
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)	2.63	4.73

BH09		
Compound (µg/L)	5/19/2021	8/23/2021
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)	2.53	4.62

BH07		
Compound (µg/L)	5/19/2021	8/23/2021
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)	3.02	5.12

BH01		
Compound (µg/L)	5/19/2021	8/23/2021
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)	2.74	4.74

BH02		
Compound (µg/L)	5/19/2021	8/23/2021
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)	3.20	5.36

BH03		
Compound (µg/L)	5/19/2021	8/23/2021
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)	3.17	5.24

**Legend**

- Monitoring Well Location (Collected via Trimble GPS)
- Former PDC Energy (PDC) Infrastructure
- Former Occidental Petroleum (OXY) Infrastructure
- Groundwater Flow Direction (3Q21)
- Buried Infrastructure PDC Energy, Inc.
- Buried Third-Party Gas Line Noble Energy, Inc.
- Buried Third-Party Gas Line Occidental Petroleum Corp.

**Notes**

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

µg/L – Micrograms per liter

ft. bgs – Feet below ground surface

Red text denotes an exceedance of COGCC standards

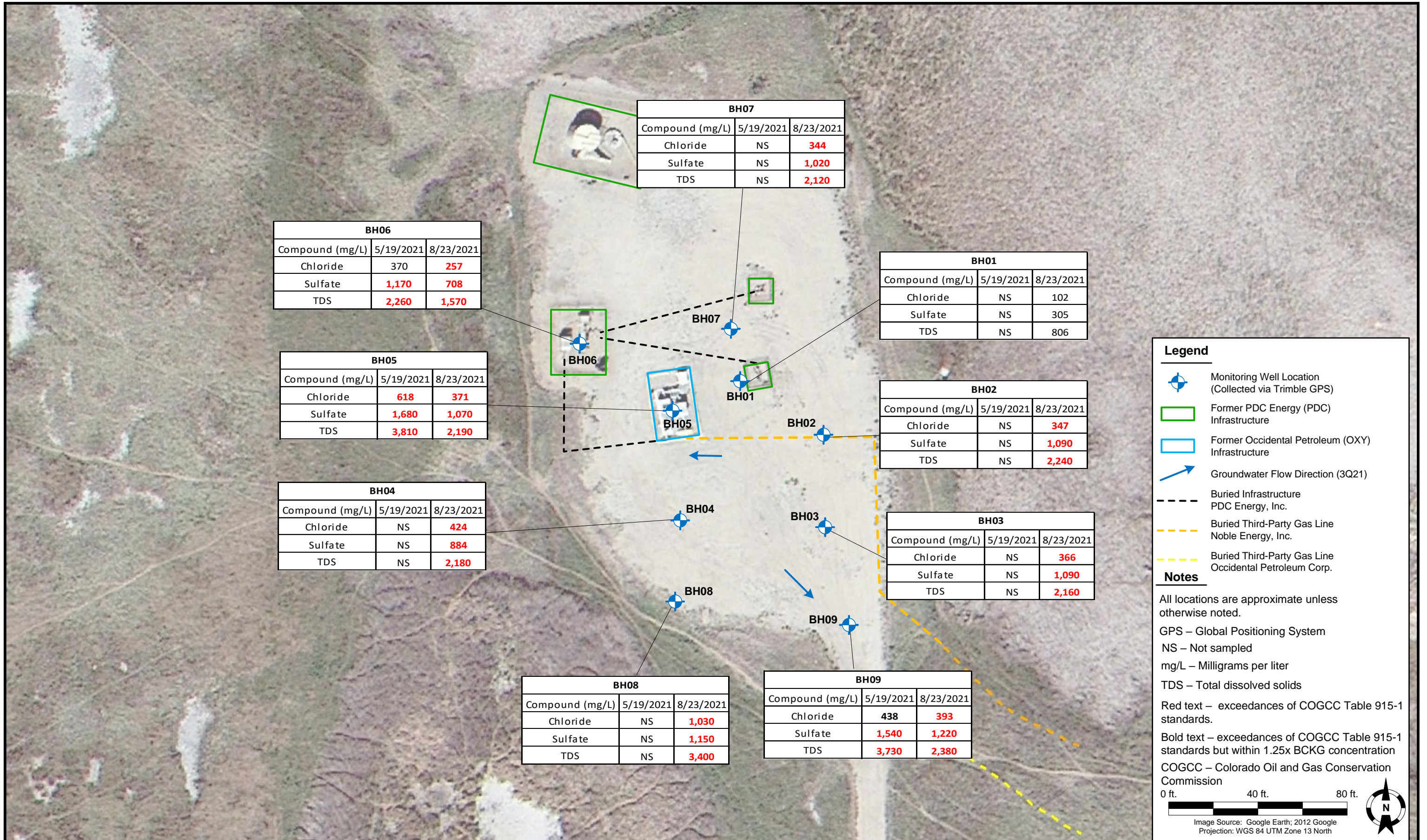
COGCC – Colorado Oil and Gas Conservation Commission

NM – Not measured

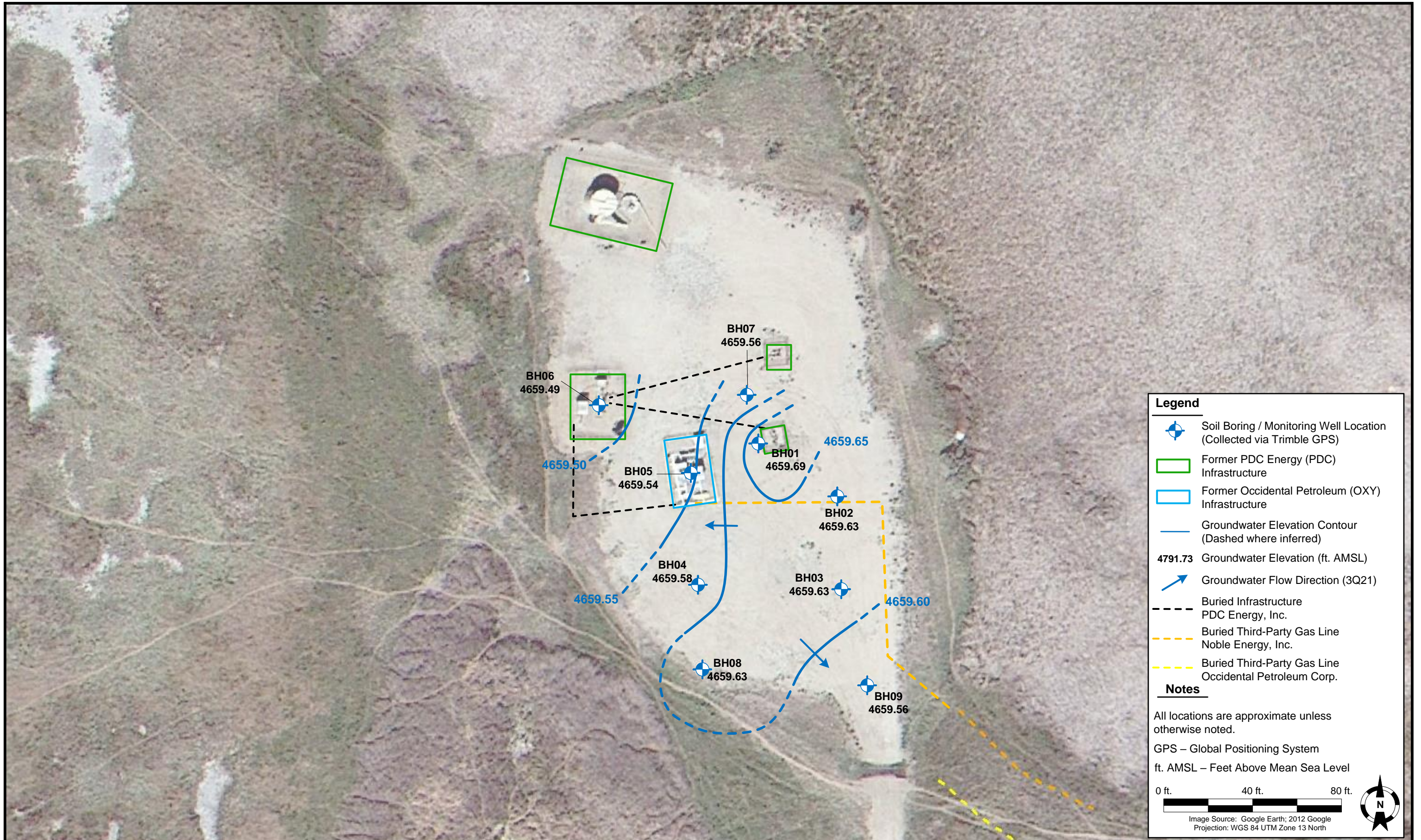
0 ft. 40 ft. 80 ft.

Image Source: Google Earth; 2012 Google  
Projection: WGS 84 UTM Zone 13 North











**TABLE 1**  
**FORMER LATHAM 2-31; LATHAM RESERVOIR 1 TANK BATTERY**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE**

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 <sup>(2)</sup> (ft.)	Groundwater Elevation (ft. AMSL)
<b>COGCC Table 915-1 Groundwater Standard (µg/L) <sup>(1)</sup></b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	<b>140</b>	<b>67</b>	<b>67</b>	<b>-</b>	<b>-</b>
BH01	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.20	4659.23
BH01	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.72	4661.71
BH01	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.74	4661.69
BH01	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4.74	4659.69
BH02	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.75	4659.24
BH02	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.25	4661.74
BH02	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.20	4661.79
BH02	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.36	4659.63
BH03	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.60	4659.27
BH03	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.14	4661.73
BH03	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.17	4661.70
BH03	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.24	4659.63
BH04	9/14/2020	<b>55</b>	<1.0	6.5	94	NA	NA	NA	5.39	4659.27
BH04	9/22/2020	<b>990</b>	<1.0	110	630	NA	NA	NA	NM	NM
BH04	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	20	2.89	4661.77
BH04	5/19/2021	<b>530</b>	<1.0	<1.0	480	4.9	<b>70</b>	<b>76</b>	2.93	4661.73
BH04	8/23/2021	<b>250</b>	<1.0	26	110	<1.0	18	12	5.08	4659.58
BH05	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.44	4659.24
BH05	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.98	4661.70
BH05	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.00	4661.68
BH05	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.14	4659.54
BH06	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.10	4659.22
BH06	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.54	4661.78
BH06	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.65	4661.67
BH06	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4.83	4659.49
BH07	9/14/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	5.45	4659.23
BH07	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.02	4661.66
BH07	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.02	4661.66
BH07	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.12	4659.56
BH08	10/22/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	4.60	4659.76
BH08	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.62	4661.74
BH08	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.63	4661.73
BH08	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4.73	4659.63
BH09	10/22/2020	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	4.44	4659.74
BH09	2/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.52	4661.66
BH09	5/19/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.53	4661.65
BH09	8/23/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4.62	4659.56

**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.

TMB = Trimethylbenzene

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

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

ft. = Feet

NA = Constituent not analyzed

AMSL = Above Mean Sea Level

**BOLD** = Analytical result is in exceedance of applicable standard.

**TABLE 2**  
**FORMER LATHAM 2-31; LATHAM RESERVOIR 1 TANK BATTERY**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE**  
**INORGANIC PARAMETERS**

Sample ID	Date Sampled	TDS (unit)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Groundwater Standard (mg/L) <sup>(1)</sup>		<1.25 x BCKG	250 or <1.25 x BCKG	250 or <1.25 x BCKG
BH01	8/23/2021	806	102	305
BH02	8/23/2021	<b>2,240</b>	<b>347</b>	<b>1,090</b>
BH03	8/23/2021	<b>2,160</b>	<b>366</b>	<b>1,090</b>
BH04	8/23/2021	<b>2,180</b>	<b>424</b>	<b>884</b>
BH05	5/19/2021	<b>3,810</b>	<b>618</b>	<b>1,680</b>
BH05	8/23/2021	<b>2,190</b>	<b>371</b>	<b>1,070</b>
BH06	5/19/2021	2,260	<b>370</b>	<b>1,170</b>
BH06	8/23/2021	<b>1,570</b>	<b>257</b>	<b>708</b>
BH07	8/23/2021	<b>2,120</b>	<b>344</b>	<b>1,020</b>
BH08	8/23/2021	<b>3,400</b>	<b>1,030</b>	<b>1,150</b>
BH09	5/19/2021	<b>3,730</b>	<b>438</b>	<b>1,540</b>
BH09	8/23/2021	<b>2,380</b>	<b>393</b>	<b>1,220</b>

**Notes:**

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

TDS = Total dissolved solids

COGCC = Colorado Oil and Gas Conservation 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.

**BOLD** = Analytical result is in exceedance of applicable standard but within 1.25x background concentration.

**BOLD** = Analytical result is in exceedance of applicable standard.

## Attachment A

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 31, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

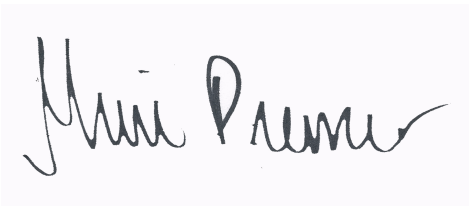
Denver, CO 80203

RE: Latham 2-31; Latham Reservoir 1

Work Order #2108325

Enclosed are the results of analyses for samples received by Summit Scientific on 08/23/21 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President





PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2108325-01	Water	08/23/21 12:18	08/23/21 17:50
BH02	2108325-02	Water	08/23/21 12:24	08/23/21 17:50
BH03	2108325-03	Water	08/23/21 12:15	08/23/21 17:50
BH04	2108325-04	Water	08/23/21 12:30	08/23/21 17:50
BH05	2108325-05	Water	08/23/21 12:19	08/23/21 17:50
BH06	2108325-06	Water	08/23/21 12:08	08/23/21 17:50
BH07	2108325-07	Water	08/23/21 12:07	08/23/21 17:50
BH08	2108325-08	Water	08/23/21 12:31	08/23/21 17:50
BH09	2108325-09	Water	08/23/21 12:03	08/23/21 17:50

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.*

2108325

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: PDC / Tasman Geosciences

Project Manager: Mark Longhurst

Address: 6855 W. 119th Ave.

E-Mail: mark.longhurst@pdce.com

City/State/Zip: Broomfield / CO/ 80020

Phone: 303-487-1228

Project Name: Latham 2-31, Latham Reservoir

Sampler Name: Hadlie Green

Project Number: N/A

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate	
1	BH01	8-23-21	1218	4	3					X				X	X	X	X	X	X	
2	BH02		1224					4												
3	BH03		1215					4												
4	BH04		1230		3			1												
5	BH05		1219					4												
6	BH06		1208					4												
7	BH07		1207		3			1												
8	BH08		1231					4												
9	BH09		1203					4												
10																				

Relinquished by: <u>Hadlie Green</u>	Date/Time: <u>8-23-21</u> <u>1425</u>	Received by: <u>Tasman's Lock Box</u>	Date/Time: <u>8-23-21</u> <u>1425</u>	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input checked="" type="checkbox"/> Standard 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>13</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: <u>Tasman's Lock Box</u>	Date/Time: <u>8/23/21 1750</u>	Received by: <u>Will [Signature]</u>	Date/Time: <u>8/23/21 1750</u>		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



# Sample Receipt Checklist

S2 Work Order 2108325

Client: PDC/TASMAN

Client Project ID: Latham 2-31, Latham Reservoir

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☒ Airbill #:                     

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☒ Water ☐ Other:                      (Describe)

Temp (°C) 13

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

WG  
Custodian Printed Name or Initials

Will Fort  
Signature of Custodian

8/23/21  
Date/Time



PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH01**  
**2108325-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		93.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		125 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	<b>102</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>305</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	<b>806</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH02**  
**2108325-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		89.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		123 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>347</b>	12.0		mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>1090</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>2240</b>	10.0		mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH03**  
**2108325-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		127 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>366</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>1090</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2160</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH04**  
**2108325-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>250</b>	10	ug/l	10	BEH0497	08/26/21	08/27/21	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>26</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>110</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>18</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>12</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/23/21 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>424</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
<b>Sulfate</b>	<b>884</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>2180</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH05**  
**2108325-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:19**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:19**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		87.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.1 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:19**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>371</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>1070</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:19**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2190</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH06**  
**2108325-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		92.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		124 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>257</b>	12.0		mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>708</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>1570</b>	10.0		mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH07**  
**2108325-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>344</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>1020</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2120</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH08**  
**2108325-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		66.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.1 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>1030</b>	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	<b>1150</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>3400</b>	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**BH09**  
**2108325-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/23/21 12:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEH0497	08/26/21	08/27/21	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: **08/23/21 12:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		88.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		64.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.6 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/23/21 12:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	393	12.0	mg/L	200	BEH0529	08/30/21	08/30/21	EPA 300.0	
Sulfate	1220	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/23/21 12:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2380	10.0	mg/L	1	BEH0509	08/27/21	08/27/21	SM2540C	

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BEH0497 - EPA 5030 Water MS

##### Blank (BEH0497-BLK1)

Prepared: 08/26/21 Analyzed: 08/27/21

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	12.5		"	13.3		94.0	23-173			
Surrogate: Toluene-d8	12.1		"	13.3		90.5	20-170			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.8	21-167			

##### LCS (BEH0497-BS1)

Prepared: 08/26/21 Analyzed: 08/27/21

Benzene	29.5	1.0	ug/l	33.3		88.6	51-132			
Toluene	33.5	1.0	"	33.3		101	51-138			
Ethylbenzene	37.5	1.0	"	33.3		113	58-146			
m,p-Xylene	70.8	2.0	"	66.7		106	57-144			
o-Xylene	35.4	1.0	"	33.3		106	53-146			
Naphthalene	41.0	1.0	"	33.3		123	70-130			
1,2,4-Trimethylbenzene	29.0	1.0	"	33.3		87.0	70-130			
1,3,5-Trimethylbenzene	35.3	1.0	"	33.3		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		89.6	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.3	21-167			

##### Matrix Spike (BEH0497-MS1)

Source: 2108324-01

Prepared: 08/26/21 Analyzed: 08/27/21

Benzene	30.2	1.0	ug/l	33.3	ND	90.6	34-141			
Toluene	31.0	1.0	"	33.3	ND	92.9	27-151			
Ethylbenzene	36.8	1.0	"	33.3	ND	110	29-160			
m,p-Xylene	70.0	2.0	"	66.7	ND	105	20-166			
o-Xylene	35.0	1.0	"	33.3	ND	105	33-159			
Naphthalene	39.7	1.0	"	33.3	ND	119	70-130			
1,2,4-Trimethylbenzene	28.6	1.0	"	33.3	ND	85.9	70-130			
1,3,5-Trimethylbenzene	34.9	1.0	"	33.3	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.3		88.5	23-173			
Surrogate: Toluene-d8	12.1		"	13.3		90.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.3	21-167			

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BEH0497 - EPA 5030 Water MS**

Matrix Spike Dup (BEH0497-MSD1)	Source: 2108324-01			Prepared: 08/26/21 Analyzed: 08/27/21						
Benzene	26.4	1.0	ug/l	33.3	ND	79.3	34-141	13.3	30	
Toluene	31.1	1.0	"	33.3	ND	93.2	27-151	0.387	30	
Ethylbenzene	35.9	1.0	"	33.3	ND	108	29-160	2.48	30	
m,p-Xylene	68.6	2.0	"	66.7	ND	103	20-166	2.05	30	
o-Xylene	34.2	1.0	"	33.3	ND	102	33-159	2.49	30	
Naphthalene	34.8	1.0	"	33.3	ND	104	70-130	13.0	30	
1,2,4-Trimethylbenzene	27.8	1.0	"	33.3	ND	83.5	70-130	2.80	30	
1,3,5-Trimethylbenzene	34.0	1.0	"	33.3	ND	102	70-130	2.50	30	
Surrogate: 1,2-Dichloroethane-d4	10.6		"	13.3		79.7	23-173			
Surrogate: Toluene-d8	12.2		"	13.3		91.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.2	21-167			

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.*



PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BEH0529 - General Preparation**

**Blank (BEH0529-BLK1)**

Prepared & Analyzed: 08/30/21

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

**LCS (BEH0529-BS1)**

Prepared & Analyzed: 08/30/21

Chloride	2.97	0.0600	mg/L	3.00	99.1	90-110
Sulfate	15.3	0.300	"	15.0	102	90-110

**Duplicate (BEH0529-DUP1)**

Source: 2108415-01

Prepared & Analyzed: 08/30/21

Chloride	90.1	0.0600	mg/L	89.0	1.23	20
Sulfate	ND	0.300	"	ND		20

**Matrix Spike (BEH0529-MS1)**

Source: 2108415-01

Prepared & Analyzed: 08/30/21

Chloride	89.4	0.0600	mg/L	3.00	89.0	15.2	80-120	QM-02
Sulfate	ND	0.300	"	15.0	ND		80-120	QM-02

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BEH0509 - General Preparation**

**Blank (BEH0509-BLK1)**

Prepared & Analyzed: 08/27/21

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BEH0509-DUP1)**

**Source: 2108269-02**

Prepared & Analyzed: 08/27/21

Total Dissolved Solids 503 10.0 mg/L 503 0.0199 20

Summit Scientific

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PDC Energy  
1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Latham 2-31; Latham Reservoir 1

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
08/31/21 14:34

### Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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