

TABLE 1  
FORMER KAISER 2, 6, 7, 18, 21, 25, 28 & 921-10 TANK BATTERY  
SOIL ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (ft. bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	pH (units)	EC (mmhos/cm)
COGCC Table 910-1 Soil Standard (mg/kg) <sup>(1)</sup>			0.17	85	100	175	23	500	6-9	<4
SS01-W @ 5'	1/30/2020	5	<0.0010	<0.0050	<0.0050	<0.010	<0.010	<50	7.89	0.564
SS01-E @ 5'	1/30/2020	5	<0.0010	<0.0050	<0.0050	<0.010	<0.010	<50	7.94	0.533

**Notes:**  
1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective May 1, 2018.  
2. TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.  
COGCC = Colorado Oil and Gas Conservation Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
GRO = Total volatile petroleum hydrocarbons - gasoline range organics  
DRO = Total extractable petroleum hydrocarbons - diesel range organics  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
EC = Electrical conductivity  
mmhos/cm = millimhos per centimeter

**TABLE 2**  
**FORMER KAISER 2, 6, 7, 18, 21, 25, 28 & 921-10 TANK BATTERY**  
**VOC CONCENTRATIONS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (ft. bgs)	Sample Location <sup>(1)</sup>	Field Measured VOC Concentration <sup>(2)</sup> (ppm)
SS01-W @ 5'	1/30/2020	5	Base	1.1
SS02-W @ 3'	1/30/2020	3	North Sidewall	0.5
SS03-W @ 3'	1/30/2020	3	West Sidewall	0.3
SS04-W @ 3'	1/30/2020	3	South Sidewall	8.1
SS05-W @ 3'	1/30/2020	3	East Sidewall	1.8
SS01-E @ 5'	1/30/2020	5	Base	8.3
SS02-E @ 3'	1/30/2020	3	North Sidewall	1.0
SS03-E @ 3'	1/30/2020	3	West Sidewall	0.4
SS04-E @ 3'	1/30/2020	3	South Sidewall	9.2
SS05-E @ 3'	1/30/2020	3	East Sidewall	1.1

**Notes:**

1. Refers to the sample location within the excavation area below the former produced water vessel.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

ft. = Feet

bgs = Below ground surface

ppm = Parts per million

  = Sample submitted for laboratory analysis.

## **ATTACHMENT A**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 05, 2020

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Kaiser 2,6,7,18,21,25,28&921-10

Work Order #2001370

Enclosed are the results of analyses for samples received by Summit Scientific on 01/30/20 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "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: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01-W@5'	2001370-01	Soil	01/30/20 10:50	01/30/20 17:30
SS01-E@5'	2001370-06	Soil	01/30/20 11:15	01/30/20 17:30

Summit Scientific

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

# Summit Scientific

S<sub>2</sub>

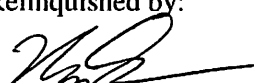
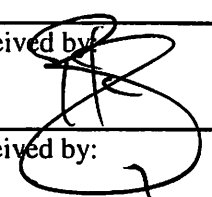
2001370

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

Page 1 of 1

Client: PDC / Tasman 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: Kaiser 2,6,7,18,21,25,28 & 921-10  
Sampler Name: Max Dahlgren Project Number:

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	8260B GBTEXN	8015 DRO	pH / EC	Hold				
1	SS01-W @ 5'	1/30/20	1050	1			X			X				X	X	X					
2	SS02-W @ 3'		1055														X				
3	SS03-W @ 3'		1100														X				
4	SS04-W @ 3'		1105														X				
5	SS05-W @ 3'		1110														X				
6	SS01-E @ 5'		1115											X	X	X					
7	SS02-E @ 3'		1120														X				
8	SS03-E @ 3'		1125														X				
9	SS04-E @ 3'		1130														X				
10	SS05-E @ 3'		1135														X				

Relinquished by: 	Date/Time: 1/30/20 1630	Received by: Tasman's Lock Box	Date/Time:	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by: Tasman's Lock Box	Date/Time: 01/30/2020 1730	Received by: 	Date/Time: 01/30/2020 1730	Sample Integrity: Temperature Upon Receipt: 4.2 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2001370

## Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: PDC / TASMAN

Client Project ID: KAISER 2, 67, 18, 21, 25, 28

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_ &amp; 921-10

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

Temp (°C)	4.2
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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"/>	
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 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 checked="" type="checkbox"/>	<input 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? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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.

RZ

Custodian Printed Name or Initials

Signature of Custodian

1/30/20

Date/Time



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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**SS01-W@5'**  
**2001370-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/30/20 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2002031	02/04/20	02/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/30/20 10:50**

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

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/30/20 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2002030	02/04/20	02/04/20	EPA 8015M	

Date Sampled: **01/30/20 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		86.9 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/30/20 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.89		pH Units	1	2001422	01/31/20	01/31/20	EPA 9045D	

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**SS01-W@5'**  
**2001370-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **01/30/20 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.564</b>	0.0100		mmhos/cm	1	2001421	01/31/20	01/31/20	EPA 120.1	

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Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**SS01-E@5'**  
**2001370-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2002031	02/04/20	02/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2002030	02/04/20	02/04/20	EPA 8015M	

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.5 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	2001422	01/31/20	01/31/20	EPA 9045D	

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1775 Sherman St. STE. 3000  
Denver CO, 80203

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**SS01-E@5'**  
**2001370-06 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **01/30/20 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.533</b>	0.0100		mmhos/cm	1	2001421	01/31/20	01/31/20	EPA 120.1	

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

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

### Summit Scientific

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

#### Batch 2002031 - EPA 5030 Soil MS

##### Blank (2002031-BLK1)

Prepared & Analyzed: 02/04/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	21-167			

##### LCS (2002031-BS1)

Prepared & Analyzed: 02/04/20

Benzene	0.0808	0.0020	mg/kg	0.100		80.8	70-130			
Toluene	0.0700	0.0050	"	0.100		70.0	70-130			
Ethylbenzene	0.0843	0.0050	"	0.100		84.3	70-130			
m,p-Xylene	0.163	0.010	"	0.200		81.5	70-130			
o-Xylene	0.0812	0.0050	"	0.100		81.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	21-167			

##### Matrix Spike (2002031-MS1)

Source: 2001369-01

Prepared & Analyzed: 02/04/20

Benzene	0.0799	0.0020	mg/kg	0.100	ND	79.9	70-130			
Toluene	0.0994	0.0050	"	0.100	ND	99.4	70-130			
Ethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.164	0.010	"	0.200	0.00411	80.0	70-130			
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		103	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	21-167			

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**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 2002031 - EPA 5030 Soil MS**

**Matrix Spike Dup (2002031-MSD1)**

**Source: 2001369-01**

Prepared & Analyzed: 02/04/20

Benzene	0.0792	0.0020	mg/kg	0.100	ND	79.2	70-130	0.868	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	0.606	30	
Ethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130	2.70	30	
m,p-Xylene	0.159	0.010	"	0.200	0.00411	77.3	70-130	3.44	30	
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130	3.56	30	
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	21-167			

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2002030 - EPA 3550A**

**Blank (2002030-BLK1)**

Prepared & Analyzed: 02/04/20

C10-C28 (DRO) ND 50 mg/kg

**LCS (2002030-BS1)**

Prepared & Analyzed: 02/04/20

C10-C28 (DRO) 556 50 mg/kg 500 111 70-130

**Matrix Spike (2002030-MS1)**

**Source: 2001369-01**

Prepared & Analyzed: 02/04/20

C10-C28 (DRO) 480 50 mg/kg 500 18.6 92.3 70-130

**Matrix Spike Dup (2002030-MSD1)**

**Source: 2001369-01**

Prepared & Analyzed: 02/04/20

C10-C28 (DRO) 521 50 mg/kg 500 18.6 100 70-130 8.14 20

Summit Scientific

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

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

**Batch 2001422 - General Preparation**

**LCS (2001422-BS1)**

Prepared & Analyzed: 01/31/20

pH	9.22	pH Units	9.18	100	95-105
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**Duplicate (2001422-DUP1)**

**Source: 2001370-01**

Prepared & Analyzed: 01/31/20

pH	7.88	pH Units	7.89	0.127	20
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Summit Scientific

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 2001421 - General Preparation**

**Blank (2001421-BLK1)**

Prepared & Analyzed: 01/31/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (2001421-BS1)**

Prepared & Analyzed: 01/31/20

Specific Conductance (EC) 0.802 0.0100 mmhos/cm 0.750 107 90-110

**Duplicate (2001421-DUP1)**

**Source: 2001370-01**

Prepared & Analyzed: 01/31/20

Specific Conductance (EC) 0.564 0.0100 mmhos/cm 0.564 0.0886 20

Summit Scientific

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

Project: Kaiser 2,6,7,18,21,25,28&921-10

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
02/05/20 17:19

### Notes and Definitions

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