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April 24, 2023

Max Trehus
PDC Energy
4000 Burlington Ave.
Evans, CO 80620

Work Order: **HS23040448**

Laboratory Results for: **Wilson IC 03-302 HC**

Dear Max Trehus ,

ALS Environmental received 2 sample(s) on Apr 08, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Tyler Monroe

Client: PDC Energy
Project: Wilson IC 03-302 HC
Work Order: HS23040448

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23040448-01	03-302HC A	Water		04-Apr-2023 14:40	08-Apr-2023 09:35	<input type="checkbox"/>
HS23040448-02	03-302HC B	Water		04-Apr-2023 14:40	08-Apr-2023 09:35	<input type="checkbox"/>

Client: PDC Energy
Project: Wilson IC 03-302 HC
Work Order: HS23040448

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R432660

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Semivolatiles by Method SW8015M

Batch ID: 192156

Sample ID: 03-302HC A (HS23040448-01)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

GC Volatiles by Method SW8015

Batch ID: R432382

Sample ID: 03-302HC A (HS23040448-01)

- Surrogate failed outside of control limits high due to sample matrix interference. This was confirmed by sample reanalysis.

GCMS Volatiles by Method SW8260

Batch ID: R432525

Sample ID: 03-302HC A (HS23040448-01)

- Lowest practical dilution due to sample matrix and/or high concentration of non-target analyte(s).

Metals by Method E200.8

Batch ID: 192336

Sample ID: HS23040471-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS23040632-02MS

- MS and MSD are for an unrelated sample

Batch ID: 192679

Sample ID: HS23040379-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS23040830-01MS

- MS and MSD are for an unrelated sample

Client: PDC Energy
Project: Wilson IC 03-302 HC
Work Order: HS23040448

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: R433374

Sample ID: HS23040458-08MS

- MS and MSD are for an unrelated sample

Sample ID: HS23040598-03MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SM2320B

Batch ID: R433026

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R432330

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
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Client: PDC Energy
 Project: Wilson IC 03-302 HC
 Sample ID: 03-302HC A
 Collection Date: 04-Apr-2023 14:40

ANALYTICAL REPORT
 WorkOrder:HS23040448
 Lab ID:HS23040448-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
Benzene	150	J	100	500	ug/L	500	13-Apr-2023 07:28
Ethylbenzene	410	J	150	500	ug/L	500	13-Apr-2023 07:28
m,p-Xylene	1,300		250	1000	ug/L	500	13-Apr-2023 07:28
o-Xylene	590		150	500	ug/L	500	13-Apr-2023 07:28
Toluene	480	J	100	500	ug/L	500	13-Apr-2023 07:28
Xylenes, Total	1,900		150	500	ug/L	500	13-Apr-2023 07:28
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	500	13-Apr-2023 07:28
Surr: 4-Bromofluorobenzene	100			77-113	%REC	500	13-Apr-2023 07:28
Surr: Dibromofluoromethane	98.5			77-123	%REC	500	13-Apr-2023 07:28
Surr: Toluene-d8	102			82-127	%REC	500	13-Apr-2023 07:28
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: PJM			
Gasoline Range Organics	469		5.00	25.0	mg/L	500	11-Apr-2023 18:37
Surr: 4-Bromofluorobenzene	638	S		70-123	%REC	500	11-Apr-2023 18:37
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM			
Ethane	1,000		14.4	100	ug/L	100	12-Apr-2023 09:41
Methane	2,810		10.7	50.0	ug/L	100	12-Apr-2023 09:41
Propane	368		100	100	ug/L	100	12-Apr-2023 09:41
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 11-Apr-2023		Analyst: SAM	
TPH (Diesel Range)	140		2.0	5.0	mg/L	100	12-Apr-2023 12:58
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	100	12-Apr-2023 12:58
TOTAL METALS BY E200.8, REV 5.4, 1994		Method:E200.8		Prep:E200.8 / 20-Apr-2023		Analyst: JC	
Calcium	989		0.900	25.0	mg/L	50	21-Apr-2023 12:21
Magnesium	0.0510	J	0.00780	0.500	mg/L	1	21-Apr-2023 12:15
Potassium	191		0.165	2.50	mg/L	5	20-Apr-2023 23:58
Sodium	329		0.105	1.00	mg/L	5	20-Apr-2023 23:58
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	2,690		10.0	25.0	mg/L	50	21-Apr-2023 10:38
Sulfate	1,230		10.0	25.0	mg/L	50	21-Apr-2023 10:38
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	11,400		5.00	10.0	mg/L	1	10-Apr-2023 12:30
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: A01			
Alkalinity, Bicarbonate (As CaCO3)	59.3		5.00	5.00	mg/L	1	18-Apr-2023 18:27
Alkalinity, Carbonate (As CaCO3)	172		5.00	5.00	mg/L	1	18-Apr-2023 18:27
Alkalinity, Total (As CaCO3)	231		5.00	5.00	mg/L	1	18-Apr-2023 18:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: PDC Energy
 Project: Wilson IC 03-302 HC
 Sample ID: 03-302HC B
 Collection Date: 04-Apr-2023 14:40

ANALYTICAL REPORT

WorkOrder:HS23040448
 Lab ID:HS23040448-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY E200.8, REV 5.4, Method:E200.8 (dissolved) 1994					Prep:E200.8 / 21-Apr-2023		Analyst: JC
Calcium	1,140		0.900	25.0	mg/L	50	21-Apr-2023 16:49
Magnesium	0.0830	J	0.00780	0.500	mg/L	1	21-Apr-2023 16:51
Potassium	216		0.165	2.50	mg/L	5	21-Apr-2023 15:23
Sodium	376		0.105	1.00	mg/L	5	21-Apr-2023 15:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

Batch ID: 192156	Start Date: 11 Apr 2023 09:28	End Date: 11 Apr 2023 14:00
Method: SW3511	Prep Code: 3511_DRO	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040448-01		32.88 (mL)	2 (mL)	0.06083	40 mL Amber

Batch ID: 192336	Start Date: 21 Apr 2023 08:30	End Date: 21 Apr 2023 12:30
Method: DISSOLVED METALS DIGESTION BY E200.8,REV 5.4,1994	Prep Code: 200.8_DISSPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040448-02		10 (mL)	10 (mL)	1	120 mL Plastic Neat

Batch ID: 192496	Start Date: 17 Apr 2023 15:30	End Date: 17 Apr 2023 16:00
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER	Prep Code: FILTRATION	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040448-02		100 (mL)	100 (mL)	1	120 mL Plastic Neat

Batch ID: 192679	Start Date: 20 Apr 2023 08:30	End Date: 20 Apr 2023 12:30
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994	Prep Code: 200.8PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040448-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 192156 (0)		Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40		11 Apr 2023 09:28	12 Apr 2023 12:58	100
Batch ID: 192336 (0)		Test Name : DISSOLVED METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS23040448-02	03-302HC B	04 Apr 2023 14:40		21 Apr 2023 08:30	21 Apr 2023 16:51	1
HS23040448-02	03-302HC B	04 Apr 2023 14:40		21 Apr 2023 08:30	21 Apr 2023 16:49	50
HS23040448-02	03-302HC B	04 Apr 2023 14:40		21 Apr 2023 08:30	21 Apr 2023 15:23	5
Batch ID: 192679 (0)		Test Name : TOTAL METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40		20 Apr 2023 08:30	21 Apr 2023 12:21	50
HS23040448-01	03-302HC A	04 Apr 2023 14:40		20 Apr 2023 08:30	21 Apr 2023 12:15	1
HS23040448-01	03-302HC A	04 Apr 2023 14:40		20 Apr 2023 08:30	20 Apr 2023 23:58	5
Batch ID: R432330 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			10 Apr 2023 12:30	1
Batch ID: R432382 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			11 Apr 2023 18:37	500
Batch ID: R432525 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			13 Apr 2023 07:28	500
Batch ID: R432660 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			12 Apr 2023 09:41	100
Batch ID: R433026 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			18 Apr 2023 18:27	1
Batch ID: R433374 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23040448-01	03-302HC A	04 Apr 2023 14:40			21 Apr 2023 10:38	50

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192156 (0)	Instrument: FID-16	Method: TPH DRO/ORO BY SW8015C
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MBLK	Sample ID: MBLK-192156	Units: mg/L	Analysis Date: 12-Apr-2023 10:31							
Client ID:	Run ID: FID-16_432676	SeqNo: 7237468	PrepDate: 11-Apr-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
TPH (Diesel Range)	U	0.050								
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.03978</i>	<i>0.0050</i>	<i>0.06</i>	<i>0</i>	<i>66.3</i>	<i>60 - 135</i>				

LCS	Sample ID: LCS-192156	Units: mg/L	Analysis Date: 12-Apr-2023 11:00							
Client ID:	Run ID: FID-16_432676	SeqNo: 7237469	PrepDate: 11-Apr-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
TPH (Diesel Range)	0.5542	0.050	0.6	0	92.4	70 - 130				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.04644</i>	<i>0.0050</i>	<i>0.06</i>	<i>0</i>	<i>77.4</i>	<i>60 - 135</i>				

LCSD	Sample ID: LCSD-192156	Units: mg/L	Analysis Date: 12-Apr-2023 11:30							
Client ID:	Run ID: FID-16_432676	SeqNo: 7237470	PrepDate: 11-Apr-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
TPH (Diesel Range)	0.6152	0.050	0.6	0	103	70 - 130	0.5542	10.4	20	
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.04643</i>	<i>0.0050</i>	<i>0.06</i>	<i>0</i>	<i>77.4</i>	<i>60 - 135</i>	<i>0.04644</i>	<i>0.0256</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R432660 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK		Sample ID: MBLK-230412		Units: ug/L		Analysis Date: 12-Apr-2023 07:51			
Client ID:		Run ID: FID-4_432660		SeqNo: 7237173		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	U	1.00							
Methane	U	0.500							
Propane	U	1.00							

LCS		Sample ID: LCS-230412		Units: ug/L		Analysis Date: 12-Apr-2023 08:07			
Client ID:		Run ID: FID-4_432660		SeqNo: 7237174		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	17.85	1.00	18.04	0	98.9	75 - 125			
Methane	9.487	0.500	9.647	0	98.3	75 - 125			
Propane	27.71	1.00	26.46	0	105	75 - 125			

LCSD		Sample ID: LCSD-230412		Units: ug/L		Analysis Date: 12-Apr-2023 08:35			
Client ID:		Run ID: FID-4_432660		SeqNo: 7237175		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	17.23	1.00	18.04	0	95.5	75 - 125	17.85	3.57	30
Methane	8.836	0.500	9.647	0	91.6	75 - 125	9.487	7.11	30
Propane	27.43	1.00	26.46	0	104	75 - 125	27.71	1.01	30

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R432382 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C					
MBLK	Sample ID: MBLK-230411	Units: mg/L			Analysis Date: 11-Apr-2023 17:56				
Client ID:	Run ID: FID-20_432382	SeqNo: 7230364		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics	U	0.0500							
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.1134</i>	<i>0.00500</i>	<i>0.1</i>	<i>0</i>	<i>113</i>	<i>70 - 121</i>			

LCS	Sample ID: LCS-230411	Units: mg/L			Analysis Date: 11-Apr-2023 17:14				
Client ID:	Run ID: FID-20_432382	SeqNo: 7230362		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics	1.109	0.0500	1	0	111	76 - 124			
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.08688</i>	<i>0.00500</i>	<i>0.1</i>	<i>0</i>	<i>86.9</i>	<i>52 - 138</i>			

LCSD	Sample ID: LCSD-230411	Units: mg/L			Analysis Date: 11-Apr-2023 17:28				
Client ID:	Run ID: FID-20_432382	SeqNo: 7230363		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics	1.014	0.0500	1	0	101	76 - 124	1.109	8.98	20
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.09004</i>	<i>0.00500</i>	<i>0.1</i>	<i>0</i>	<i>90.0</i>	<i>52 - 138</i>	<i>0.08688</i>	<i>3.57</i>	<i>20</i>

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192336 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)

MBLK Sample ID: **MBLKF2-192336** Units: **ug/L** Analysis Date: **21-Apr-2023 14:56**
 Client ID: Run ID: **ICPMS06_433272** SeqNo: **7254252** PrepDate: **21-Apr-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium	53.37	500								J
Magnesium	20.61	500								J
Potassium	61.95	500								J
Sodium	21.86	200								J

MBLK Sample ID: **MBLKF3-192336** Units: **ug/L** Analysis Date: **21-Apr-2023 14:58**
 Client ID: Run ID: **ICPMS06_433272** SeqNo: **7254253** PrepDate: **21-Apr-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium	28.38	500								J
Magnesium	21.24	500								J
Potassium	48.8	500								J
Sodium	U	200								J

MBLK Sample ID: **MBLKF1-192336** Units: **ug/L** Analysis Date: **21-Apr-2023 14:54**
 Client ID: Run ID: **ICPMS06_433272** SeqNo: **7254251** PrepDate: **21-Apr-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium	U	500								J
Magnesium	20.11	500								J
Potassium	52.44	500								J
Sodium	U	200								J

MBLK Sample ID: **MBLK-192336** Units: **ug/L** Analysis Date: **21-Apr-2023 14:52**
 Client ID: Run ID: **ICPMS06_433272** SeqNo: **7254250** PrepDate: **21-Apr-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium	30.77	500								J
Magnesium	15.22	500								J
Potassium	35.48	500								J
Sodium	U	200								J

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192336 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)						
LCS		Sample ID: LCS-192336		Units: ug/L		Analysis Date: 21-Apr-2023 15:00				
Client ID:		Run ID: ICPMS06_433272		SeqNo: 7254254		PrepDate: 21-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4976	500	5000	0	99.5	85 - 115				
Magnesium	5403	500	5000	0	108	85 - 115				
Potassium	5181	500	5000	0	104	85 - 115				
Sodium	5194	200	5000	0	104	85 - 115				
MS		Sample ID: HS23040632-02MS		Units: ug/L		Analysis Date: 21-Apr-2023 15:19				
Client ID:		Run ID: ICPMS06_433272		SeqNo: 7254262		PrepDate: 21-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	78900	500	5000	73080	116	85 - 115				SO
Magnesium	31840	500	5000	26930	98.2	85 - 115				O
Potassium	7659	500	5000	2917	94.8	85 - 115				
Sodium	104000	200	5000	98110	118	85 - 115				SO
MS		Sample ID: HS23040471-01MS		Units: ug/L		Analysis Date: 21-Apr-2023 15:04				
Client ID:		Run ID: ICPMS06_433272		SeqNo: 7254256		PrepDate: 21-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	105200	500	5000	102600	51.5	85 - 115				SO
Magnesium	15240	500	5000	11050	83.8	85 - 115				S
Potassium	10710	500	5000	6369	86.7	85 - 115				
Sodium	108400	200	5000	109200	-15.2	85 - 115				SO
MSD		Sample ID: HS23040632-02MSD		Units: ug/L		Analysis Date: 21-Apr-2023 15:21				
Client ID:		Run ID: ICPMS06_433272		SeqNo: 7254263		PrepDate: 21-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	79250	500	5000	73080	123	85 - 115	78900	0.451	20	SO
Magnesium	31690	500	5000	26930	95.0	85 - 115	31840	0.5	20	O
Potassium	7792	500	5000	2917	97.5	85 - 115	7659	1.72	20	
Sodium	103600	200	5000	98110	110	85 - 115	104000	0.356	20	O

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192336 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)							
MSD	Sample ID: HS23040471-01MSD			Units: ug/L		Analysis Date: 21-Apr-2023 15:06					
Client ID:	Run ID: ICPMS06_433272			SeqNo: 7254257		PrepDate: 21-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	105100	500	5000	102600	49.2	85 - 115	105200	0.108	20	SO	
Magnesium	14780	500	5000	11050	74.7	85 - 115	15240	3.03	20	S	
Potassium	10680	500	5000	6369	86.3	85 - 115	10710	0.22	20		
Sodium	107300	200	5000	109200	-37.1	85 - 115	108400	1.01	20	SO	

The following samples were analyzed in this batch: HS23040448-02

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192679 (0) **Instrument:** ICPMS06 **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

MBLK		Sample ID: MBLK-192679		Units: ug/L		Analysis Date: 20-Apr-2023 23:28				
Client ID:		Run ID: ICPMS06_433147		SeqNo: 7252109		PrepDate: 20-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	500								
Magnesium	U	500								
Potassium	U	500								
Sodium	U	200								

LCS		Sample ID: LCS-192679		Units: ug/L		Analysis Date: 20-Apr-2023 23:30				
Client ID:		Run ID: ICPMS06_433147		SeqNo: 7252110		PrepDate: 20-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4884	500	5000	0	97.7	85 - 115				
Magnesium	4983	500	5000	0	99.7	85 - 115				
Potassium	5011	500	5000	0	100	85 - 115				
Sodium	5026	200	5000	0	101	85 - 115				

MS		Sample ID: HS23040830-01MS		Units: ug/L		Analysis Date: 20-Apr-2023 23:40				
Client ID:		Run ID: ICPMS06_433147		SeqNo: 7252115		PrepDate: 20-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	54600	500	5000	50570	80.6	70 - 130				O
Magnesium	14140	500	5000	9711	88.5	70 - 130				
Potassium	16770	500	5000	12380	87.8	70 - 130				
Sodium	377000	200	5000	383700	-134	70 - 130				SEO

MS		Sample ID: HS23040379-01MS		Units: ug/L		Analysis Date: 20-Apr-2023 23:34				
Client ID:		Run ID: ICPMS06_433147		SeqNo: 7252112		PrepDate: 20-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	68990	500	5000	62980	120	70 - 130				O
Magnesium	9311	500	5000	4251	101	70 - 130				
Potassium	8101	500	5000	3051	101	70 - 130				
Sodium	28470	200	5000	22950	110	70 - 130				O

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: 192679 (0)		Instrument: ICPMS06		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS23040830-01MSD	Units: ug/L			Analysis Date: 20-Apr-2023 23:42					
Client ID:	Run ID: ICPMS06_433147	SeqNo: 7252116		PrepDate: 20-Apr-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	54920	500	5000	50570	87.0	70 - 130	54600	0.579	20	O
Magnesium	14280	500	5000	9711	91.3	70 - 130	14140	0.974	20	
Potassium	16880	500	5000	12380	89.9	70 - 130	16770	0.631	20	
Sodium	383000	200	5000	383700	-13.7	70 - 130	377000	1.58	20	SEO

MSD	Sample ID: HS23040379-01MSD	Units: ug/L			Analysis Date: 20-Apr-2023 23:36					
Client ID:	Run ID: ICPMS06_433147	SeqNo: 7252113		PrepDate: 20-Apr-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	70180	500	5000	62980	144	70 - 130	68990	1.72	20	SO
Magnesium	9412	500	5000	4251	103	70 - 130	9311	1.08	20	
Potassium	8125	500	5000	3051	101	70 - 130	8101	0.298	20	
Sodium	28950	200	5000	22950	120	70 - 130	28470	1.69	20	O

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R432525 (0) **Instrument:** VOA7 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-230412		Units: ug/L		Analysis Date: 12-Apr-2023 23:15			
Client ID:		Run ID: VOA7_432525		SeqNo: 7233744		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
m,p-Xylene	U	2.0							
o-Xylene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.58</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.47</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>77 - 113</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.86</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.81</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

LCS		Sample ID: VLCSW-230412		Units: ug/L		Analysis Date: 12-Apr-2023 22:33			
Client ID:		Run ID: VOA7_432525		SeqNo: 7233743		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.14	1.0	20	0	95.7	74 - 120			
Ethylbenzene	18.53	1.0	20	0	92.6	77 - 117			
m,p-Xylene	37.31	2.0	40	0	93.3	77 - 122			
o-Xylene	18.7	1.0	20	0	93.5	75 - 119			
Toluene	18.9	1.0	20	0	94.5	77 - 118			
Xylenes, Total	56.01	1.0	60	0	93.3	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 113</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.89</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.4</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R432525 (0) **Instrument:** VOA7 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS23040412-07MS			Units: ug/L		Analysis Date: 13-Apr-2023 00:20			
Client ID:		Run ID: VOA7_432525			SeqNo: 7233747		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.06	1.0	20	0	95.3	70 - 127				
Ethylbenzene	18.78	1.0	20	0	93.9	70 - 124				
m,p-Xylene	37.49	2.0	40	0	93.7	70 - 130				
o-Xylene	18.98	1.0	20	0	94.9	70 - 124				
Toluene	19.11	1.0	20	0	95.5	70 - 123				
Xylenes, Total	56.46	1.0	60	0	94.1	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.62</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.22</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>82 - 127</i>				

MSD		Sample ID: HS23040412-07MSD			Units: ug/L		Analysis Date: 13-Apr-2023 00:41			
Client ID:		Run ID: VOA7_432525			SeqNo: 7233748		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.02	1.0	20	0	90.1	70 - 127	19.06	5.59	20	
Ethylbenzene	17.15	1.0	20	0	85.8	70 - 124	18.78	9.07	20	
m,p-Xylene	34.98	2.0	40	0	87.5	70 - 130	37.49	6.91	20	
o-Xylene	17.57	1.0	20	0	87.8	70 - 124	18.98	7.69	20	
Toluene	17.48	1.0	20	0	87.4	70 - 123	19.11	8.91	20	
Xylenes, Total	52.55	1.0	60	0	87.6	70 - 130	56.46	7.17	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>70 - 126</i>	<i>52.62</i>	<i>1.14</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 113</i>	<i>50.52</i>	<i>0.998</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>49.95</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>77 - 123</i>	<i>50.22</i>	<i>0.533</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>	<i>50.94</i>	<i>0.377</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R432330 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WBLK-04102023	Units: mg/L			Analysis Date: 10-Apr-2023 12:30				
Client ID:	Run ID: Balance1_432330	SeqNo: 7229175		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: LCS-04102023	Units: mg/L			Analysis Date: 10-Apr-2023 12:30				
Client ID:	Run ID: Balance1_432330	SeqNo: 7229174		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1082 10.0 1000 0 108 85 - 115

DUP	Sample ID: HS23040356-01DUP	Units: mg/L			Analysis Date: 10-Apr-2023 12:30				
Client ID:	Run ID: Balance1_432330	SeqNo: 7229163		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 3340 10.0 3350 0.299 20

DUP	Sample ID: HS23040316-03DUP	Units: mg/L			Analysis Date: 10-Apr-2023 12:30				
Client ID:	Run ID: Balance1_432330	SeqNo: 7229161		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 2370 10.0 2360 0.423 20

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R433026 (0) **Instrument:** Skalar 03 **Method:** ALKALINITY BY SM 2320B-2011

MBLK		Sample ID: MBLK-04182023		Units: mg/L		Analysis Date: 18-Apr-2023 17:22				
Client ID:		Run ID: Skalar 03_433026		SeqNo: 7246945		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS		Sample ID: LCS-04182023		Units: mg/L		Analysis Date: 18-Apr-2023 17:28				
Client ID:		Run ID: Skalar 03_433026		SeqNo: 7246946		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	930.8	5.00	1000	0	93.1	85 - 115				
Alkalinity, Total (As CaCO3)	938.2	5.00	1000	0	93.8	85 - 115				

LCSD		Sample ID: LCSD-04182023		Units: mg/L		Analysis Date: 18-Apr-2023 17:34				
Client ID:		Run ID: Skalar 03_433026		SeqNo: 7246947		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	932.8	5.00	1000	0	93.3	85 - 115	930.8	0.215	20	
Alkalinity, Total (As CaCO3)	940.6	5.00	1000	0	94.1	85 - 115	938.2	0.255	20	

DUP		Sample ID: HS23040326-06DUP		Units: mg/L		Analysis Date: 18-Apr-2023 17:46				
Client ID:		Run ID: Skalar 03_433026		SeqNo: 7246949		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	358.7	5.00					357.5	0.335	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	358.7	5.00					357.5	0.335	20	

The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R433374 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 21-Apr-2023 10:13					
Client ID:		Run ID: ICS-Integrion_433374		SeqNo: 7255646		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	U	0.500								
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 21-Apr-2023 10:19					
Client ID:		Run ID: ICS-Integrion_433374		SeqNo: 7255647		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	19.85	0.500	20	0	99.2	90 - 110				
Sulfate	19.32	0.500	20	0	96.6	90 - 110				
MS	Sample ID: HS23040598-03MS	Units: mg/L			Analysis Date: 21-Apr-2023 13:57					
Client ID:		Run ID: ICS-Integrion_433374		SeqNo: 7255674		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	23.64	0.500	10	13.7	99.5	80 - 120				
Sulfate	397.7	0.500	10	394.3	34.6	80 - 120			SEO	
MS	Sample ID: HS23040458-08MS	Units: mg/L			Analysis Date: 21-Apr-2023 12:11					
Client ID:		Run ID: ICS-Integrion_433374		SeqNo: 7255662		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	2052	25.0	500	1602	90.0	80 - 120				
Sulfate	1280	25.0	500	866.5	82.7	80 - 120				
MSD	Sample ID: HS23040598-03MSD	Units: mg/L			Analysis Date: 21-Apr-2023 14:03					
Client ID:		Run ID: ICS-Integrion_433374		SeqNo: 7255675		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	23.51	0.500	10	13.7	98.2	80 - 120	23.64	0.551	20	
Sulfate	394.4	0.500	10	394.3	1.79	80 - 120	397.7	0.83	20 SEO	

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

QC BATCH REPORT

Batch ID: R433374 (0) Instrument: ICS-Integrion Method: ANIONS BY E300.0, REV 2.1, 1993

MSD Sample ID: HS23040458-08MSD Units: mg/L Analysis Date: 21-Apr-2023 12:17

Client ID: Run ID: ICS-Integrion_433374 SeqNo: 7255663 PrepDate: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Chloride	2021	25.0	500	1602	83.8	80 - 120	2052	1.52	20	
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Sulfate	1264	25.0	500	866.5	79.5	80 - 120	1280	1.25	20	S
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The following samples were analyzed in this batch: HS23040448-01

Client: PDC Energy
Project: Wilson IC 03-302 HC
WorkOrder: HS23040448

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

Sample Receipt Checklist

Work Order ID: HS23040448

Date/Time Received: 08-Apr-2023 09:35

Client Name: PDC Energy 80620

Received by: Paresh M. Giga

Completed By: /S/ Paresh M. Giga 10-Apr-2023 09:35 Reviewed by: /S/ Tyler Monroe 11-Apr-2023 11:23
eSignature Date/Time eSignature Date/Time

Matrices: Water

Carrier name: FedEx Priority Overnight

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No [] 1 Page(s)
Chain of custody signed when relinquished and received? Yes [checked] No [] COC IDs:none
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 4.3C/3.8C U/C IR31
Cooler(s)/Kit(s): 50660
Date/Time sample(s) sent to storage: 4/8/23 12:00

- Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Chain of Custody Form

Page _____ of _____

HS23040448

PDC Energy
Wilson IC 03-302HC



ALS Project Manager: _____

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	Wilson IC 03-302HC	A	Dissolved Gases (Methane, Ethane, Propane)											
Work Order		Project Number		B	BTEX 8260											
Company Name	PDC Energy	Bill To Company	PDC Energy	C	DRO 8015											
Send Report To	Max Trehus	Invoice Attn.	Max Trehus	D	GRO 8015											
Address	4000 Burlington Ave	Address	1775 Sherman St #3000	E	Anions (Cl, SO4), Alk (T, CO3, HCO3), TDS											
					F	Dissolved Ca, Mg, K, Na - need to lab filter										
City/State/Zip	Evans, CO 80620	City/State/Zip	Denver, CO 80203	G	Total Ca, Mg, K, Na											
Phone	720-762-3569	Phone	303-860-5800	H												
Fax		Fax		I												
e-Mail Address	max.trehus@pdce.com	e-Mail Address		J												
	Jenifer.Hakkarinen@pdce.com															
	Jessica.Johannsen@pdce.com															

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	03-302HC A	4/4/23	14:40	W	8	3	X										
2	03-302HC A			W	1	3		X									
3	03-302HC A			W	1	3			X								
4	03-302HC A			W	1	3				X							
5	03-302HC A			W	8	1					X						
6	03-302HC B			W	8	1						X					
7	03-302HC A			W	2	1							X				
8																	
9																	
10																	

Sampler(s): Please Print & Sign Max Trehus		Shipment Method:		Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by:	Date: 4/5/23	Time: 10:10	Received by:	Notes:		Facility ID: 45219A			
Relinquished by:	Date: 4/7/23	Time: 1530	Received by (Laboratory):	Cooler Temp. 4.30 4.31		QC Package: (Check Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	5060		<input checked="" type="checkbox"/> Level II: Standard QC		TRRP-Checklist	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						<input type="checkbox"/> Level III: Std QC + Raw Data		TRRP Level IV	
						<input type="checkbox"/> Level IV: SW846 CLP-Like			
						Other:			

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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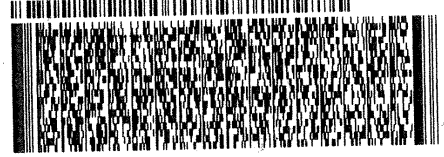
ORIGIN ID:GXVA (970) 305-1648
AMY KEPHART
ALS
965 E 11TH ST
LOVELAND, CO 80537
UNITED STATES US

RT 954 3 A
12:00 7180
ST 10 04.08

TO **SAMPLE RECEIVING**
ALS
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

50660

REF: CTL/PDC/LARIMER



TRK# 0201 6182 5243 7180

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA

77099
TX-US IAH

Post # 167077-404 MTW EXP 0622

