

TABLE 1
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
PDC ENERGY INC.
PHELPS 11-32 CHZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Waste Char	8/22/2023	0.2	6.58	0.0119	12.6	0.146
N-2	8/23/2023	2	8.06	0.815	3.60	<0.0100
E-2	8/23/2023	2	6.45	9.78	7.78	0.0524
W-2	8/23/2023	2	7.73	1.13	3.97	<0.0100
S-2	8/23/2023	2	8.21	0.156	0.654	<0.0100
F2-5	8/23/2023	5	7.70	0.514	2.27	<0.0100
MW-1 2 Ft	1/10/2024	2	9.01	0.362	1.19	<2.00
MW-2 2 Ft	1/10/2024	2	7.51	0.097	0.318	<2.00
MW-3 2 Ft	1/10/2024	2	9.40	1.09	0.208	<2.00
MW-4 2 Ft	1/10/2024	2	9.10	0.189	0.783	<2.00
MW-5 2 Ft	1/10/2024	2	7.98	0.18	0.517	<2.00
BG N-W	1/3/2024	2	NA	0.111	0.397	NA
BG N-C	1/3/2024	2	NA	0.190	0.595	NA
BG N-E	1/3/2024	2	NA	0.188	0.542	NA
BG SE	1/3/2024	2	NA	0.454	3.68	NA
BG SW	1/3/2024	2	NA	1.49	4.07	NA
HA-S	4/11/2024	2	8.41	NA	NA	NA
HA-E	4/11/2024	2	7.98	NA	NA	NA
SS-SS	6/11/2024	2	8.77	NA	NA	NA
SS-SSS	7/3/2024	2	8.89	NA	NA	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
PDC ENERGY INC.
PHELPS 11-32 CHZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
SEP GW	08/23/23	14	<1.0	<1.0	22	<1.0	4.7	<1.0	NM	NM	NM	NP
MW-1	01/12/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.03	6.70	89.33	NP
	04/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.98	92.05	NP
	07/03/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00		2.48	93.55	NP
MW-2	01/12/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.03	10.50	88.53	NP
	04/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.24	90.79	NP
	07/03/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00		6.08	92.95	NP
MW-3	01/12/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.00	11.46	88.54	NP
	04/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.45	91.55	NP
	07/03/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00		7.41	92.59	NP
MW-4	01/12/24	8.5	25	2.5	13	<1.0	<1.0	1.5	99.47	10.66	88.81	NP
	04/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.23	91.24	NP
	07/03/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00		6.30	93.17	NP
MW-5	01/12/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.61	10.58	89.03	NP
	04/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.81	91.80	NP
	07/03/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00		6.07	93.54	NP

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

TABLE 3
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
PDC ENERGY INC.
PHELPS SEPARATOR, ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
MW-1	01/12/24	924	208	172
	04/11/24	1350	244	232
	07/03/24	1190	246	265
MW-2	01/12/24	902	178	189
	04/11/24	1110	215	210
	07/03/24	1150	111	243
MW-3	01/12/24	1020	202	243
	04/11/24	1260	226	248
	07/03/24	1200	235	282
MW-4	01/12/24	870	191	182
	04/11/24	1160	227	217
	07/03/24	1400	305	280
MW-5	01/12/24	822	206	165
	04/11/24	1350	261	232
	07/03/24	1110	233	209

Bold face values exceed the COGCC limits

MW-1 is the upgradient well

Yellow highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

TABLE 4
SUMMARY OF SELENIUM (Se) CONCENTRATIONS IN EXCAVATED SOILS CALCULATION (BASED ON REPORTED SPILL VOLUME)
PDC ENERGY INC.
PHELPS SEPARATOR
FREMONT PROJECT NO. C023-287

Compare Mass of Selenium (Se) Excavated to Selenium Released

Selenium Removed During Excavation	0.919 grams
Selenium Released Due to Spill	0.00016 grams
Excess Selenium Removed During Excavation	0.919 grams

Therefore, approximately 5,743 times more Selenium were removed via excavation than were released

Calculation of Selenium Removed During Excavation

Avg. Se Concentration in Excav. Soil Samples	Mass of Excavated Soil	Mass of Se in Exc. Soil
0.26 mg/kg	3,538 kg	0.919 grams

Mass of excavated soil is: 3 cubic yards x 1.30 ton/CY = 3.9 tons = 3,538 kg

Six soil samples from the excavation were analyzed for Selenium; the average concentration was <0.26 mg/kg, therefore, use 0.26 mg/kg

Calculation of Selenium Released Due to Spill

Produced H2O/Oil Release Volume (bbl)	Produced H2O/Oil Volume (L)	Se Concentration (ug/L)	Se Mass Released (mg)	Se Mass Released (g)
1	158.987	1.00	(1.00 ug/L x 158.987 L)/1000 0.16	0.00016

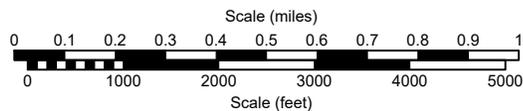
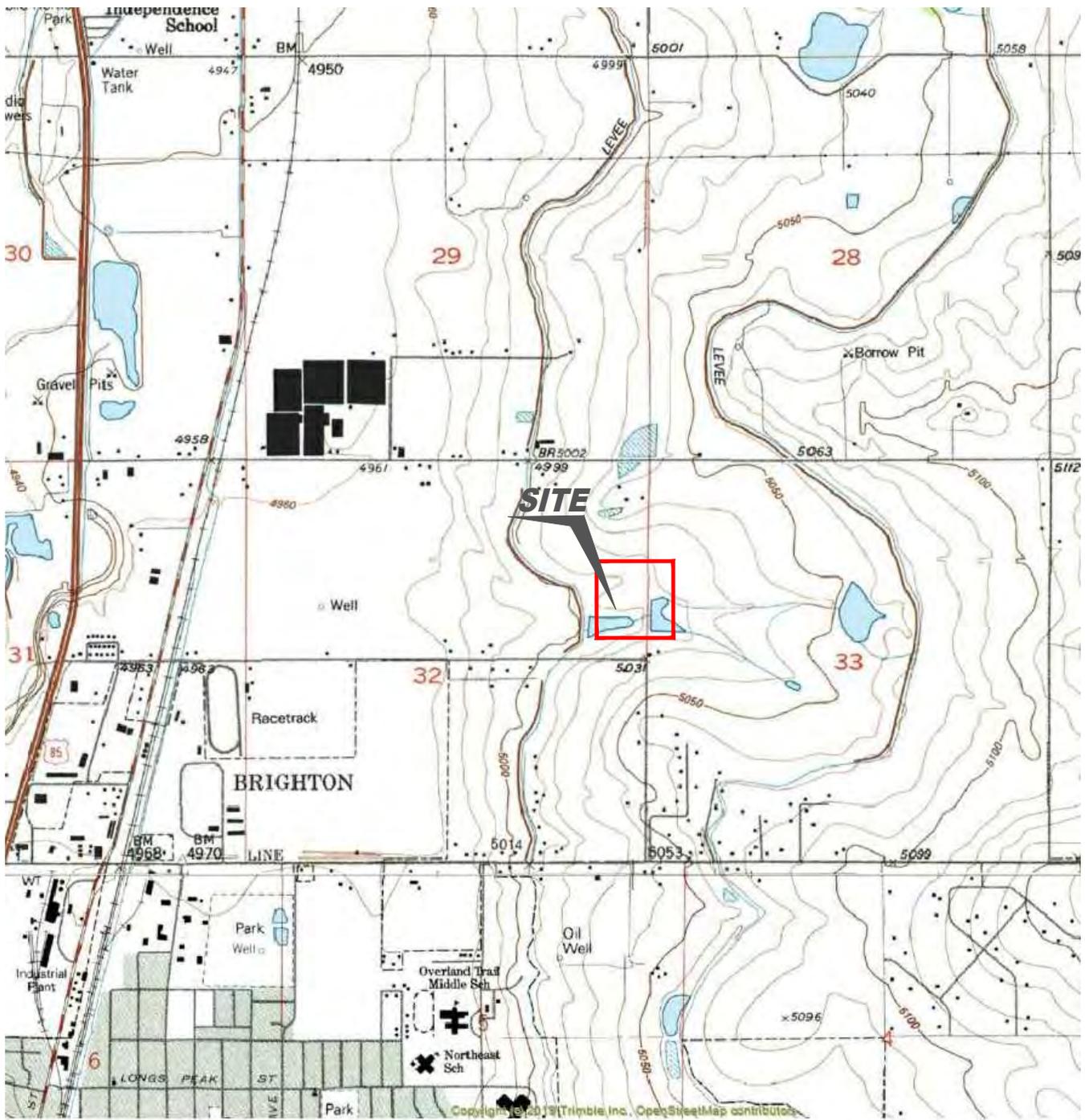
Volume of Produced Water Released: (1 bbl)(158.987 L/bbl) = 158.987 L

1 kg/L is weight of water

Se concentration in produced water sample was non-detect <1.00 ug/L (see lab report); therefore, use 1.00 ug/L

TABLE 5
SUMMARY OF TOTAL RECOVERABLE METALS IN PRODUCED WATER CHEMISTRY DATA
PDC ENERGY INC.
PHELPS SEPARATOR, ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Copper (ug/L)	Lead (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Silver (ug/L)	Zinc (ug/L)
PW	2/28/2024	2.62	33,600	0.560	8.32	<0.500	7.00	<1.00	0.215	81.3



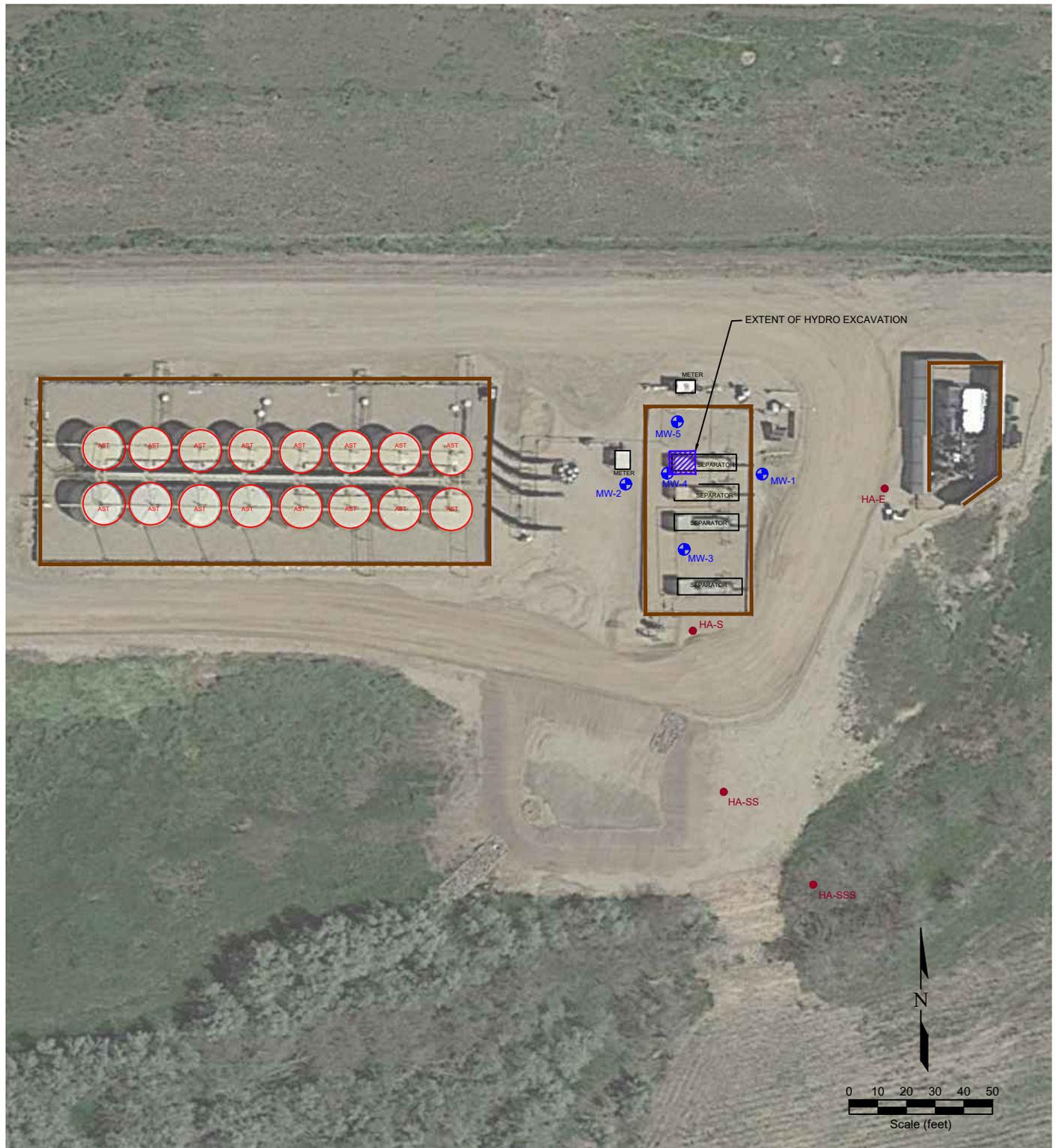
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
 SENE Section 32, T1N, R66W, 6th PM
 Weld County, Colorado
 40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 7/15/24	Remediation #	Filename 23233T





LEGEND

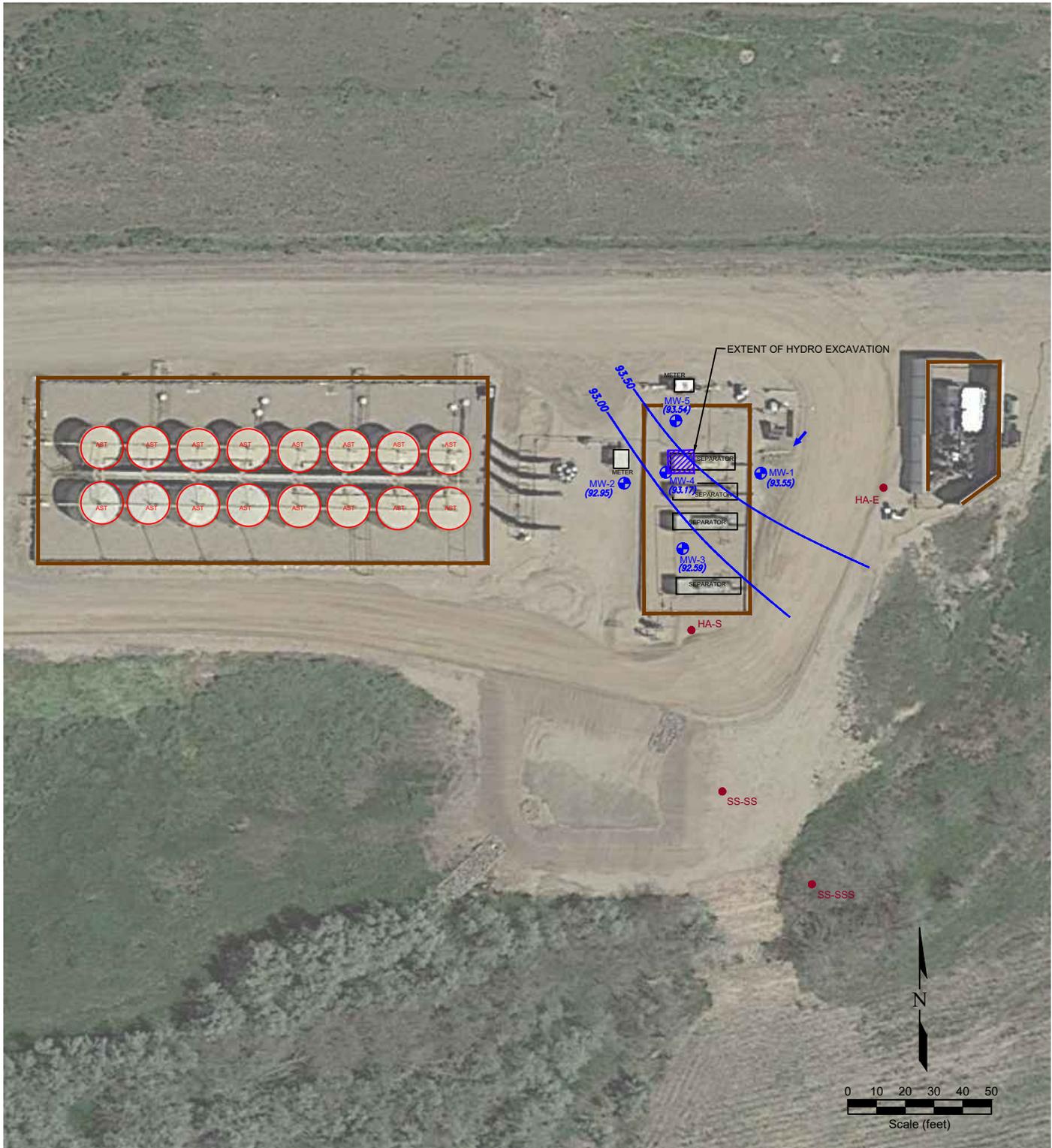
- HAND AUGURED SOIL BORING
- HYDROEXCAVATION
- ◻ FORMER FACILITY
- ▤ CONTAINMENT BERM
- MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▬ CONTAINMENT WALL
- ▬ EXTENT OF EXCAVATION
- ▬ FENCE LINE

**Figure 2
SITE MAP**

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
 SENE Section 32, T1N, R66W, 6th PM
 Weld County, Colorado
 40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 7/15/24	Remediation #	Filename 23233Q





LEGEND

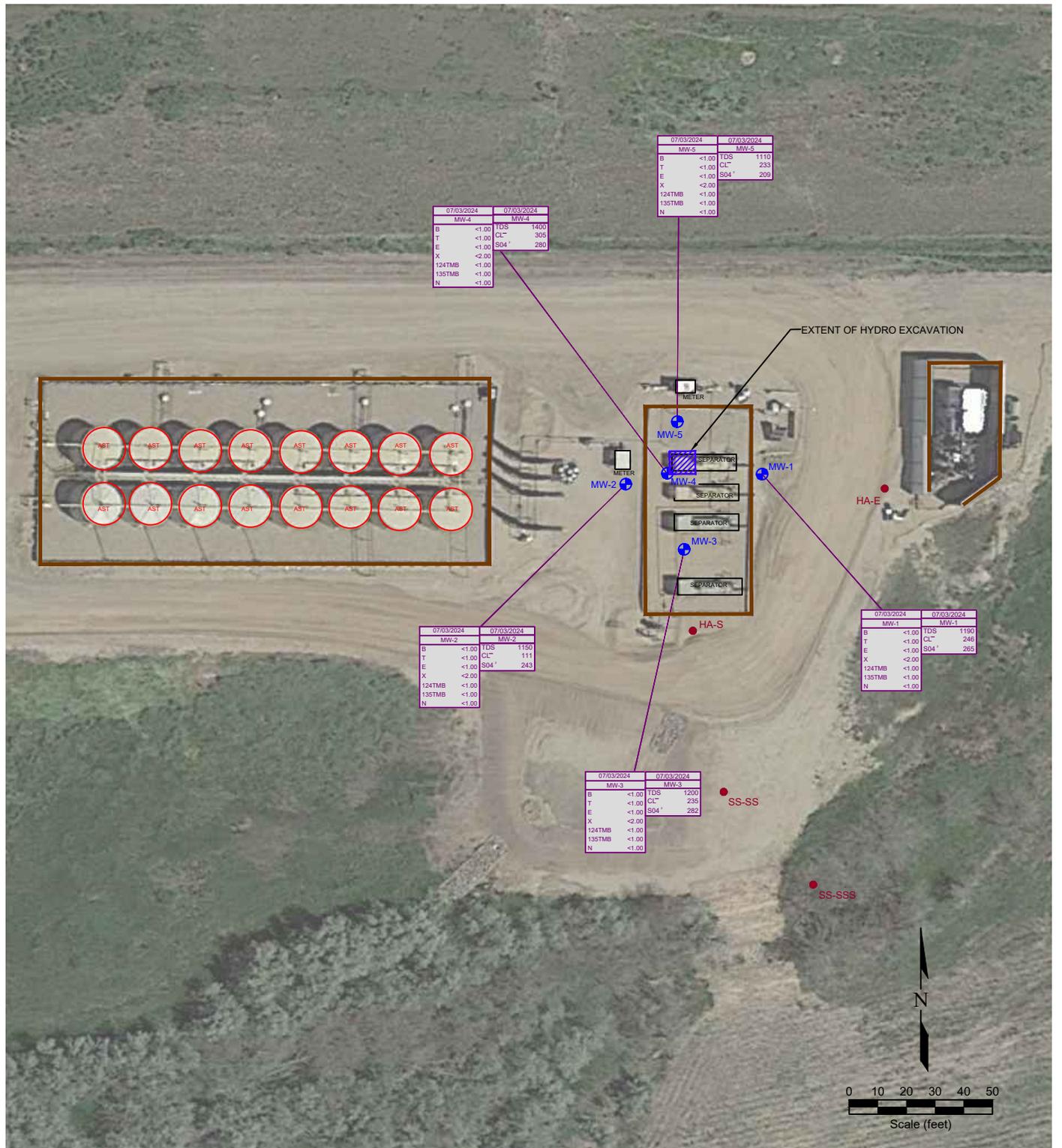
- HAND AUGURED SOIL BORING
- ⊕ MONITORING WELL LOCATION
- ⊗ ABOVE GROUND STORAGE TANK
- ▨ HYDROEXCAVATION
- ⬜ FORMER FACILITY
- ▭ BUILDING
- ⋯ CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- FENCE LINE
- ⤴ (92.20) NM
92.00
- GROUND WATER ELEVATION (ft above arbitrary datum)
NOT MEASURED
- WATER TABLE CONTOUR
- GROUND WATER FLOW DIRECTION

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 July 3, 2024

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
 SENE Section 32, T1N, R66W, 6th PM
 Weld County, Colorado
 40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 7/15/24	Remediation #	Filename 23233Q





07/03/2024		07/03/2024	
MW-4		MW-4	
B	<1.00	TDS	1400
T	<1.00	CL ⁻	305
E	<1.00	SO4 ⁺	280
X	<2.00		
124TMB	<1.00		
135TMB	<1.00		
N	<1.00		

07/03/2024		07/03/2024	
MW-5		MW-5	
B	<1.00	TDS	1110
T	<1.00	CL ⁻	233
E	<1.00	SO4 ⁺	209
X	<2.00		
124TMB	<1.00		
135TMB	<1.00		
N	<1.00		

07/03/2024		07/03/2024	
MW-2		MW-2	
B	<1.00	TDS	1150
T	<1.00	CL ⁻	111
E	<1.00	SO4 ⁺	243
X	<2.00		
124TMB	<1.00		
135TMB	<1.00		
N	<1.00		

07/03/2024		07/03/2024	
MW-1		MW-1	
B	<1.00	TDS	1190
T	<1.00	CL ⁻	246
E	<1.00	SO4 ⁺	285
X	<2.00		
124TMB	<1.00		
135TMB	<1.00		
N	<1.00		

07/03/2024		07/03/2024	
MW-3		MW-3	
B	<1.00	TDS	1200
T	<1.00	CL ⁻	235
E	<1.00	SO4 ⁺	282
X	<2.00		
124TMB	<1.00		
135TMB	<1.00		
N	<1.00		

LEGEND

- HAND AUGURED SOIL BORING
- MONITORING WELL LOCATION
- ▨ HYDROEXCAVATION
- ABOVE GROUND STORAGE TANK
- ▭ FORMER FACILITY
- ▭ BUILDING
- ▭ CONTAINMENT BERM
- ▭ CONTAINMENT WALL
- ▭ EXTENT OF EXCAVATION
- ▭ FENCE LINE

07/03/2024		DATE SAMPLED	
MW-1		SAMPLE ID	
B	<1.00	BENZENE (ug/L)	
T	<1.00	TOLUENE (ug/L)	
E	<1.00	ETHYLBENZENE (ug/L)	
X	<2.00	TOTAL XYLENES (ug/L)	
124TMB	<1.00	1,2,4-TRIMETHYLBENZENE (ug/L)	
135TMB	<1.00	1,3,5-TRIMETHYLBENZENE (ug/L)	
N	<1.00	NAPHTHALENE (ug/L)	

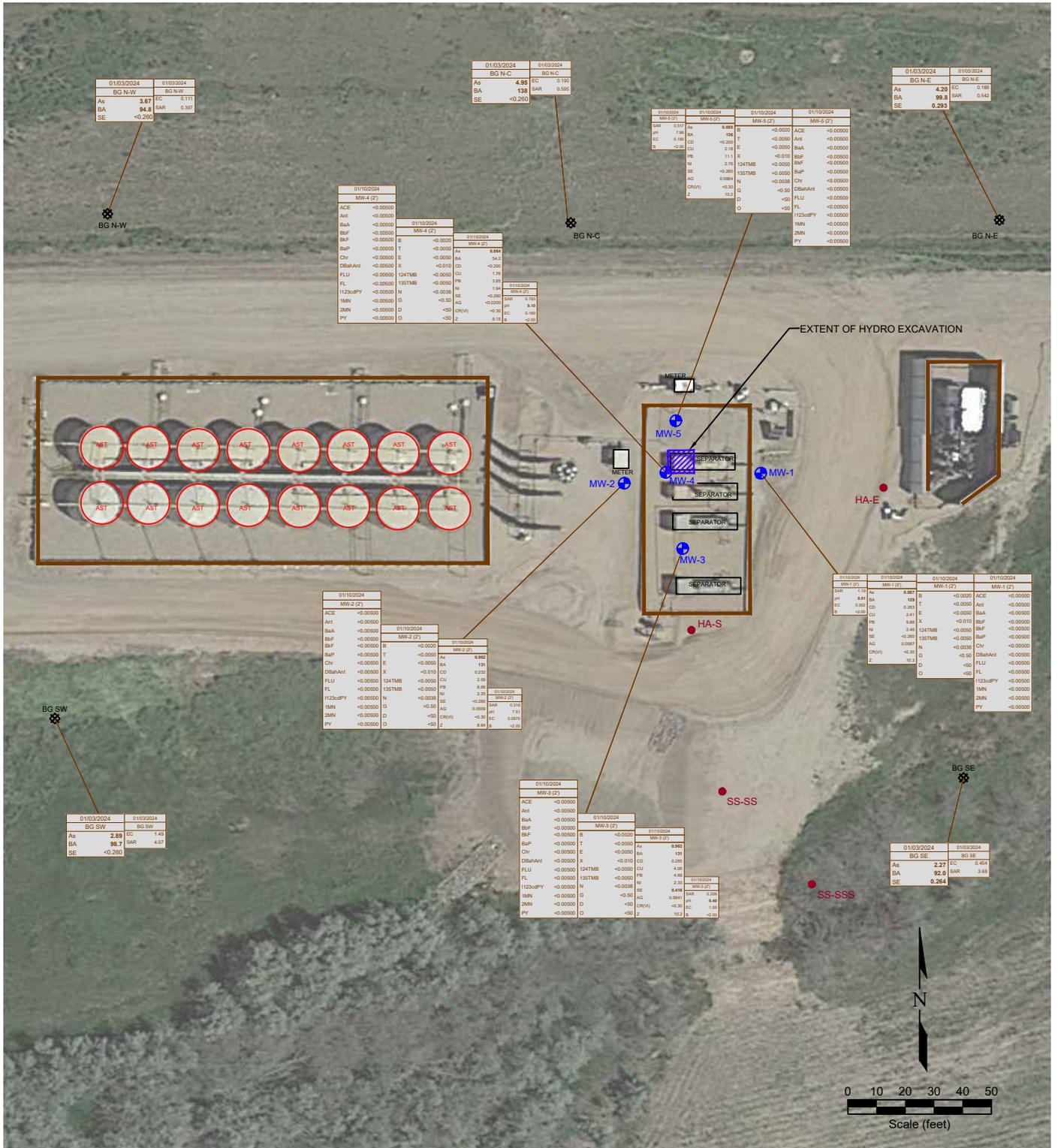
07/03/2024		DATE SAMPLED	
MW-1		SAMPLE ID	
TDS	1190	TOTAL DISSOLVED SOLIDS (mg/L)	
CL ⁻	246	CHLORIDE ION (mg/L)	
SO4 ⁺	285	SULFATE ION (mg/L)	

Figure 4
GROUNDWATER CHEMISTRY MAP

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
 SENE Section 32, T1N, R66W, 6th PM
 Weld County, Colorado
 40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 7/15/24	Remediation #	Filename 23233Q





LEGEND

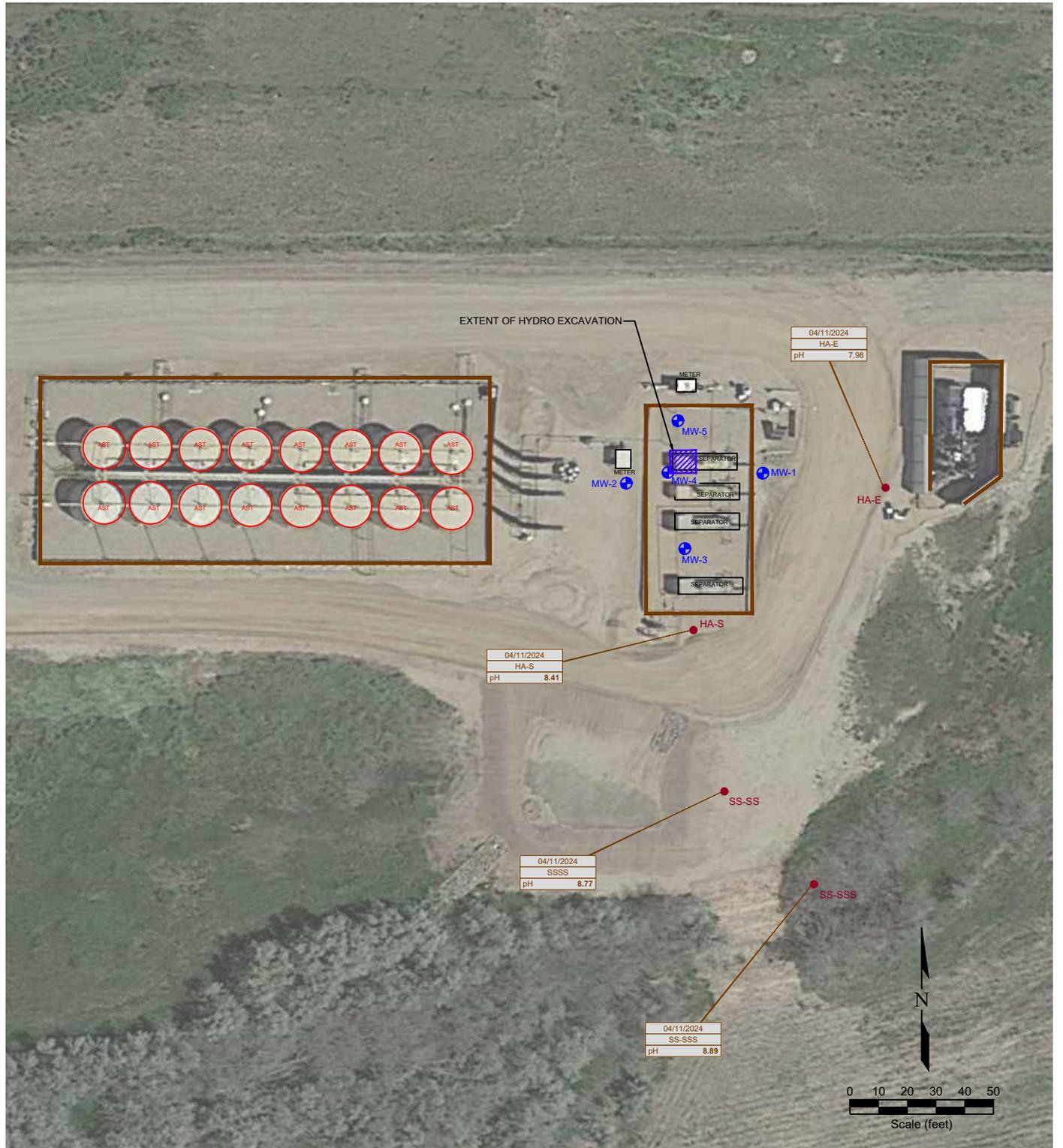
- HAND AUGURED SOIL BORING
- HYDROEXCAVATION
- FORMER FACILITY
- ▭ FORMER FACILITY
- ▭ CONTAINMENT BERM
- ▭ CONTAINMENT WALL
- ▭ EXTENT OF EXCAVATION
- ▭ FENCE LINE
- MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- SOIL SAMPLE LOCATION

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
01/10/2024	MW-1 (2)	01/10/2024	MW-1 (2)
ACE	<0.0050	ACE	<0.0050
Ant	<0.0050	Ant	<0.0050
BAA	<0.0050	BAA	<0.0050
BAF	<0.0050	BAF	<0.0050
BAP	<0.0050	BAP	<0.0050
Chv	<0.0050	Chv	<0.0050
DBaAnt	<0.0050	DBaAnt	<0.0050
FLU	<0.0050	FLU	<0.0050
1123aPY	<0.0050	1123aPY	<0.0050
1MN	<0.0050	1MN	<0.0050
2MN	<0.0050	2MN	<0.0050
PY	<0.0050	PY	<0.0050

Figure 5
SOIL CHEMISTRY MAP
PDC ENERGY, INC. ~ PHELPS 11-32CHZ
SENE Section 32, T1N, R66W, 6th PM
Weld County, Colorado
40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 7/15/24	Remediation #	Filename 23233Q

REMONT ENVIRONMENTAL



LEGEND

● HAND AUGURED SOIL BORING	▨ HYDROEXCAVATION	FORMER FACILITY	CONTAINMENT BERM
● MONITORING WELL LOCATION	○ ABOVE GROUND STORAGE TANK	▭ BUILDING	— CONTAINMENT WALL
			— EXTENT OF EXCAVATION
			— FENCE LINE

04/11/2024	DATE SAMPLED
HA-S	SAMPLE ID & DEPTH (ft)
8.41	pH (pH units)

Figure 6
pH SOIL CHEMISTRY MAP

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
SENE Section 32, T1N, R66W, 6th PM
Weld County, Colorado
40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548	
Date 7/15/24	Remediation #	Filename 23233Q	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

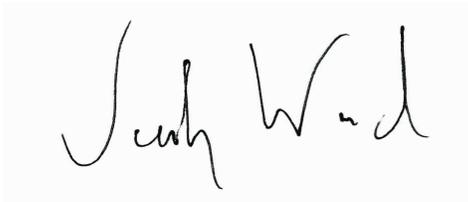
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March 11, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Phelps Separator
Work Order #2402546

Enclosed are the results of analyses for samples received by Summit Scientific on 02/29/24 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/11/24 09:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW	2402546-01	Water	02/28/24 00:00	02/29/24 17:40

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

2402546

S₂

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

Page 1 of 1

Client: Fremont Environmental Inc. Project Manager: Paul Henehan
Address: E-Mail: PDC TEAM
City/State/Zip: Project Name: PHELPS SEPARATOR
Phone: Project Number:
Sampler Name: HENEHAN

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBS	DRO,RRO	PAHs	pH, EC, SAR	Boron	9/5-1 metals	Arsenic	BTEXN + TMBS	TDS, Cl, Su	TOTAL METALS
1	PW	2/28/24		1			✓		✓													✓
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: [Signature] Date/Time: 2/29/24 1730 Received by: [Signature] Date/Time: 2/29/24 1740
 Turn Around Time (Check): Same Day ___ 72 hours ___ 24 hours ___ Standard 48 hours ___
 Sample Integrity: Temperature Upon Receipt: 10.0 Samples Intact: Yes No

S₂

Sample Receipt Checklist

S2 Work Order# 2402546

Client: Fremont

Client Project ID: Phelps Separator

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

Grid of boxes for shipping method selection

Matrix (Check all that apply)

Air

Air checkbox

Soil/Solid

Soil/Solid checkbox

Water

Water checkbox (checked)

Other

Other checkbox

Temp (°C)

10.0

Thermometer #

1

Table with 4 columns: Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample age, water samples, COC form, sample integrity, volume, COC agreement, labels, headspace, preservation, pH, and field filtering.

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

AS

Custodian Printed Name

2/29/24
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/11/24 09:54

PW
2402546-01 (Water)

Summit Scientific

Total Recoverable Metals by EPA Method 200.8

Date Sampled: **02/28/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.62	0.600		ug/l	1	BHC0076	03/05/24	03/07/24	EPA 200.8	
Barium	33600	1.00		"	"	"	"	"	"	
Cadmium	0.560	0.0500		"	"	"	"	"	"	
Copper	8.32	1.00		"	"	"	"	"	"	
Lead	ND	0.500		"	"	"	"	"	"	
Nickel	7.00	1.00		"	"	"	"	"	"	
Selenium	ND	1.00		"	"	"	"	"	"	
Silver	0.215	0.0500		"	"	"	"	"	"	
Zinc	81.3	1.00		"	"	"	"	"	"	

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/11/24 09:54

Total Recoverable Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Batch BHC0076 - EPA 200.8

Blank (BHC0076-BLK1)

Prepared: 03/05/24 Analyzed: 03/07/24

Arsenic	ND	0.600	ug/l							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Copper	ND	1.00	"							
Lead	ND	0.500	"							
Nickel	ND	1.00	"							
Selenium	ND	1.00	"							
Silver	ND	0.0500	"							
Zinc	ND	1.00	"							

LCS (BHC0076-BS1)

Prepared: 03/05/24 Analyzed: 03/07/24

Arsenic	485	0.600	ug/l	500	97.0	85-115				
Barium	494	1.00	"	500	98.7	85-115				
Cadmium	24.0	0.0500	"	25.0	95.8	85-115				
Copper	505	1.00	"	500	101	85-115				
Lead	247	0.500	"	250	98.6	85-115				
Nickel	498	1.00	"	500	99.6	85-115				
Selenium	46.7	1.00	"	50.0	93.4	85-115				
Silver	24.5	0.0500	"	25.0	97.9	85-115				
Zinc	492	1.00	"	500	98.4	85-115				

Duplicate (BHC0076-DUP1)

Source: 2402545-01

Prepared: 03/05/24 Analyzed: 03/07/24

Arsenic	3.34	0.600	ug/l		3.49		4.39	20		
Barium	12700	1.00	"		12900		1.54	20		
Cadmium	0.260	0.0500	"		0.205		23.7	20		QR-01
Copper	42.0	1.00	"		44.5		5.88	20		
Lead	1.94	0.500	"		2.00		3.05	20		
Nickel	28.3	1.00	"		29.0		2.49	20		
Selenium	0.170	1.00	"		0.135		23.0	20		QR-01
Silver	0.685	0.0500	"		0.670		2.21	20		
Zinc	247	1.00	"		248		0.408	20		

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/11/24 09:54

Total Recoverable Metals by EPA Method 200.8 - Quality Control
Summit Scientific

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

Batch BHC0076 - EPA 200.8

Matrix Spike (BHC0076-MS1)

Source: 2402545-01

Prepared: 03/05/24 Analyzed: 03/07/24

Arsenic	596	0.600	ug/l	500	3.49	119	70-130			
Barium	13300	1.00	"	500	12900	79.8	70-130			
Cadmium	23.1	0.0500	"	25.0	0.205	91.7	70-130			
Copper	454	1.00	"	500	44.5	81.9	70-130			
Lead	255	0.500	"	250	2.00	101	70-130			
Nickel	446	1.00	"	500	29.0	83.3	70-130			
Selenium	36.6	1.00	"	50.0	0.135	72.9	70-130			
Silver	23.4	0.0500	"	25.0	0.670	91.1	70-130			
Zinc	648	1.00	"	500	248	80.0	70-130			

Matrix Spike Dup (BHC0076-MSD1)

Source: 2402545-01

Prepared: 03/05/24 Analyzed: 03/07/24

Arsenic	593	0.600	ug/l	500	3.49	118	70-130	0.484	25
Barium	13300	1.00	"	500	12900	80.3	70-130	0.0188	25
Cadmium	22.6	0.0500	"	25.0	0.205	89.7	70-130	2.19	25
Copper	440	1.00	"	500	44.5	79.0	70-130	3.24	25
Lead	254	0.500	"	250	2.00	101	70-130	0.539	25
Nickel	430	1.00	"	500	29.0	80.3	70-130	3.51	25
Selenium	35.3	1.00	"	50.0	0.135	70.2	70-130	3.73	25
Silver	22.8	0.0500	"	25.0	0.670	88.5	70-130	2.75	25
Zinc	625	1.00	"	500	248	75.4	70-130	3.63	25

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/11/24 09:54

Notes and Definitions

QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

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

July 11, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - PDC - Phelps

Project Number - [none]

Attached are your analytical results for PDC - Phelps received by Origins Laboratory, Inc. July 03, 2024. This project is associated with Origins project number Y407149-01.

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

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

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

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

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

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Phelps

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y407149-01	Water	July 3, 2024 0:00	07/03/2024 17:05
MW-2	Y407149-02	Water	July 3, 2024 0:00	07/03/2024 17:05
MW-3	Y407149-03	Water	July 3, 2024 0:00	07/03/2024 17:05
MW-4	Y407149-04	Water	July 3, 2024 0:00	07/03/2024 17:05
MW-5	Y407149-05	Water	July 3, 2024 0:00	07/03/2024 17:05

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

ORIGINS WORK ORDER #
4407149

Client: Fremont / PDC
 Address: _____
 Project Manager: Paul Henehan
 Project Name: PDC - Phelps
 Key: _____
 Telephone Number: _____
 Project Number: _____
 W=Water
 GW=Groundwater
 S=Surface Water
 Collected By: Henehan
 WW=Waste Water
 Invoice/Billing Info: _____
 L=Liquid

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | U=Urine | P=Pres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
								PH	TEMP	DO	TDS	CL	
1	MW-1	7/3/24			3			15	15	15	15	15	
2	MW-2												
3	MW-3												
4	MW-4												
5	MW-5												
6													
7													
8													
9													
10													

Requisitioned By: [Signature] Date: 7/3/24 Time: _____
 Received By: [Signature] Date: 07/03/24 Time: 1545
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Temp Received: 6.9°C Received On Ice? Yes No

Origins Laboratory, Inc.


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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Sample Receipt Checklist

Origins Work Order: 4607149 Client: Fremont
 Client Project ID: PDC-Phelps

Checklist Completed by: JH/STO Shipped Via: _____
 Date/time completed: 7/15/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 169 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) AB

Date/Time Reviewed 7/18/12

Origins Laboratory, Inc.

J. Bynon

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

MW-1

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407149-01 (Water)

Anions by IC 300.0

Chloride	246	31.2	mg/L	125	B4G0814	DLT	07/08/2024	07/08/2024	
Sulfate	265	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G0548	HKS	07/05/2024	07/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1190	5.00	mg/L	1	B4G0530	KRM	07/05/2024	07/10/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

MW-2

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407149-02 (Water)

Anions by IC 300.0

Chloride	111	31.2	mg/L	125	B4G0814	DLT	07/08/2024	07/08/2024	
Sulfate	243	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G0548	HKS	07/05/2024	07/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1150	5.00	mg/L	1	B4G0530	KRM	07/05/2024	07/10/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

MW-3

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407149-03 (Water)

Anions by IC 300.0

Chloride	235	31.2	mg/L	125	B4G0814	DLT	07/08/2024	07/08/2024	
Sulfate	282	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G0548	HKS	07/05/2024	07/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1200	5.00	mg/L	1	B4G0530	KRM	07/05/2024	07/10/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

MW-4

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407149-04 (Water)

Anions by IC 300.0

Chloride	305	31.2	mg/L	125	B4G0814	DLT	07/08/2024	07/08/2024	
Sulfate	280	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G0548	HKS	07/05/2024	07/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1400	5.00	mg/L	1	B4G0530	KRM	07/05/2024	07/10/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

MW-5

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407149-05 (Water)

Anions by IC 300.0

Chloride	233	31.2	mg/L	125	B4G0814	DLT	07/08/2024	07/08/2024	
Sulfate	209	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G0548	HKS	07/05/2024	07/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1110	5.00	mg/L	1	B4G0837	KRM	07/08/2024	07/10/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0548 - EPA 5030B (Water)

Blank (B4G0548-BLK1)

Prepared: 07/05/2024 Analyzed: 07/08/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.6		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5	110		70-130			

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0548 - EPA 5030B (Water)

LCS (B4G0548-BS1)

Prepared: 07/05/2024 Analyzed: 07/08/2024

1,2,4-Trimethylbenzene	45.5	2.00	ug/L	50.0		91.0	70-130			
1,3,5-Trimethylbenzene	45.1	2.00	"	50.0		90.3	70-130			
Benzene	43.1	1.00	"	50.0		86.2	70-130			
Ethylbenzene	45.0	1.00	"	50.0		89.9	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
Naphthalene	44.2	2.00	"	50.0		88.3	70-130			
o-Xylene	45.5	1.00	"	50.0		90.9	70-130			
Toluene	44.2	1.00	"	50.0		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

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

Batch B4G0548 - EPA 5030B (Water)

Matrix Spike (B4G0548-MS1)	Source: Y407052-01			Prepared: 07/05/2024 Analyzed: 07/08/2024						
1,2,4-Trimethylbenzene	52.6	2.00	ug/L	50.0	ND	105	70-130			
1,3,5-Trimethylbenzene	52.6	2.00	"	50.0	ND	105	70-130			
Benzene	39.2	1.00	"	50.0	ND	78.4	70-130			
Ethylbenzene	53.2	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	122	2.00	"	100	ND	122	70-130			
Naphthalene	38.0	2.00	"	50.0	0.140	75.7	70-130			
o-Xylene	51.6	1.00	"	50.0	ND	103	70-130			
Toluene	45.6	1.00	"	50.0	ND	91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		85.9	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0548 - EPA 5030B (Water)

Matrix Spike Dup (B4G0548-MSD1)	Source: Y407052-01			Prepared: 07/05/2024 Analyzed: 07/08/2024						
1,2,4-Trimethylbenzene	44.5	2.00	ug/L	50.0	ND	89.0	70-130	16.7	20	
1,3,5-Trimethylbenzene	44.3	2.00	"	50.0	ND	88.6	70-130	17.2	20	
Benzene	36.2	1.00	"	50.0	ND	72.4	70-130	7.96	20	
Ethylbenzene	43.5	1.00	"	50.0	ND	86.9	70-130	20.2	20	QR-02
m,p-Xylene	99.3	2.00	"	100	ND	99.3	70-130	20.1	20	QR-02
Naphthalene	43.3	2.00	"	50.0	0.140	86.3	70-130	13.0	20	
o-Xylene	43.9	1.00	"	50.0	ND	87.8	70-130	16.0	20	
Toluene	41.8	1.00	"	50.0	ND	83.5	70-130	8.70	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	70-130			
Surrogate: Toluene-d8	69		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0530 - NO PREP

Blank (B4G0530-BLK1)

Prepared: 07/05/2024 Analyzed: 07/10/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4G0530-BS1)

Prepared: 07/05/2024 Analyzed: 07/10/2024

Total Dissolved Solids 992 5.00 mg/L 1040 95.4 90-110

Duplicate (B4G0530-DUP1)

Source: Y407132-03

Prepared: 07/05/2024 Analyzed: 07/10/2024

Total Dissolved Solids 1180 5.00 mg/L 1220 3.32 10

Batch B4G0814 - Filter .45um non acidified

Blank (B4G0814-BLK1)

Prepared: 07/08/2024 Analyzed: 07/08/2024

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B4G0814-BS1)

Prepared: 07/08/2024 Analyzed: 07/08/2024

Chloride 3.96 0.250 mg/L 4.00 98.9 90-110

Sulfate 4.08 0.250 " 4.00 102 90-110

Matrix Spike (B4G0814-MS1)

Source: Y407149-01

Prepared: 07/08/2024 Analyzed: 07/08/2024

Chloride 732 mg/L 500 246 97.1 90-110

Sulfate 765 " 500 265 99.9 90-110

Matrix Spike Dup (B4G0814-MSD1)

Source: Y407149-01

Prepared: 07/08/2024 Analyzed: 07/08/2024

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G0814 - Filter .45um non acidified										
Matrix Spike Dup (B4G0814-MSD1)			Source: Y407149-01		Prepared: 07/08/2024 Analyzed: 07/08/2024					
Chloride	733		mg/L	500	246	97.3	90-110	0.154	5	
Sulfate	768		"	500	265	101	90-110	0.424	5	
Batch B4G0837 - NO PREP										
Blank (B4G0837-BLK1)			Prepared: 07/08/2024 Analyzed: 07/10/2024							
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4G0837-BS1)			Prepared: 07/08/2024 Analyzed: 07/10/2024							
Total Dissolved Solids	1010	5.00	mg/L	1040		97.3	90-110			
Duplicate (B4G0837-DUP1)			Source: Y407149-05		Prepared: 07/08/2024 Analyzed: 07/10/2024					
Total Dissolved Solids	1060	5.00	mg/L		1110			5.35	10	

Origins Laboratory, Inc.



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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Phelps

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

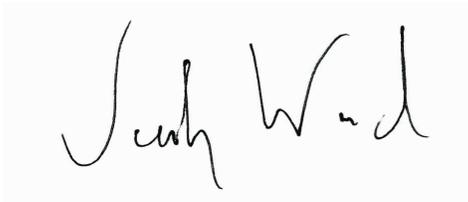
303.277.9310

June 26, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Phelps Separator
Work Order #2406184

Enclosed are the results of analyses for samples received by Summit Scientific on 06/13/24 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a blue ink color.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/26/24 16:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-55 2FT	2406184-01	Soil	06/11/24 00:00	06/13/24 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

S₂

2406184

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

Page 1 of 1

Client: Fremont Environmental Inc. Project Manager: Paul Henchan
 Address: E-Mail: PDC TEAM
 City/State/Zip: Project Name: PHELPS SEPARATOR
 Phone: Project Number:
 Sampler Name: HENEHAN

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions			
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBS	DRO,RRO	PAHs	pH, EC, SR	Boron	915-1 metals	Arsenic		BTEXN + TMBS	TDS, Cl, Su	
1	SS-SS 2 FT	6/11/24		1			✓			✓					✓								
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: <i>MAR</i>	Date/Time: 6/13/24 1730	Received by: <i>[Signature]</i>	Date/Time: 6/13/24 1730	Turn Around Time (Check) Same Day <input type="checkbox"/> 12 hours <input checked="" type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>8.1</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2406184

Client: Fremont Client Project ID: Phelps Separator

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>note</i>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>72 hrs</i>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>no sample times</i>
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):				

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

AS
Custodian Printed Name
6/13/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/26/24 16:18

SS-55 2FT
2406184-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.77		pH Units	1	BHF0451	06/17/24	06/17/24	EPA 9045D	

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 06/26/24 16:18

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHF0451 - General Preparation

LCS (BHF0451-BS1)

Prepared & Analyzed: 06/17/24

pH	9.21	pH Units	9.18	100	95-105
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Duplicate (BHF0451-DUP1)

Source: 2404268-05

Prepared & Analyzed: 06/17/24

pH	7.45	pH Units	7.45	0.00	20
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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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps Separator

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/26/24 16:18

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



July 11, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - PDC - Phelps

Project Number - [none]

Attached are your analytical results for PDC - Phelps received by Origins Laboratory, Inc. July 03, 2024. This project is associated with Origins project number Y407147-01.

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

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

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

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

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

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



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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Phelps

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-SSS	Y407147-01	Soil	July 3, 2024 0:00	07/03/2024 17:05

Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

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

Sample Receipt Checklist

Origins Work Order: 4407147 Client: Fremont
 Client Project ID: PDC-Phelps

Checklist Completed by: JW/SAO Shipped Via: FD
 Date/Time completed: 7/15/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 10.9 °c _____ / _____ °c _____ / _____ °c (Describe) _____ °c

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) AS Date/Time Reviewed 7/18/24

Origins Laboratory, Inc.

J. Bynon

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.

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Phelps

SS-SSS

7/3/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407147-01 (Soil)

pH in Soil by 9045D

pH	8.89		pH Units	1	B4G0813	EAL	07/08/2024	07/08/2024	
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Origins Laboratory, Inc.



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

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Phelps

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0813 - Saturated Paste pH/EC

Duplicate (B4G0813-DUP1)		Source: Y407104-08			Prepared: 07/08/2024 Analyzed: 07/08/2024					
pH	7.19		pH Units		7.01			2.54	25	

Origins Laboratory, Inc.



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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Phelps

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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