

FREMONT ENVIRONMENTAL INC.

January 19, 2023

Mr. Dan Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
 HSR-GITTLEIN, L 6-3
 API # 05-123-18458
 SENW Sec. 3, T3N, R64W
 Weld County, Colorado
 Fremont Project No. C022-128
 Remediation # 23878

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities for the Noble Energy Inc. (Noble) HSR-GITTLEIN, L 6-3 flowline. Details of the abandonment activities are documented in the attached Closure Report. One flowline soil sample (FL08@4') was reported with a concentration of EC barely exceeding the soil suitability for reclamation limit. Groundwater was not encountered.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.

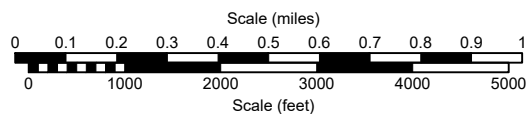
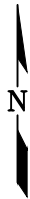
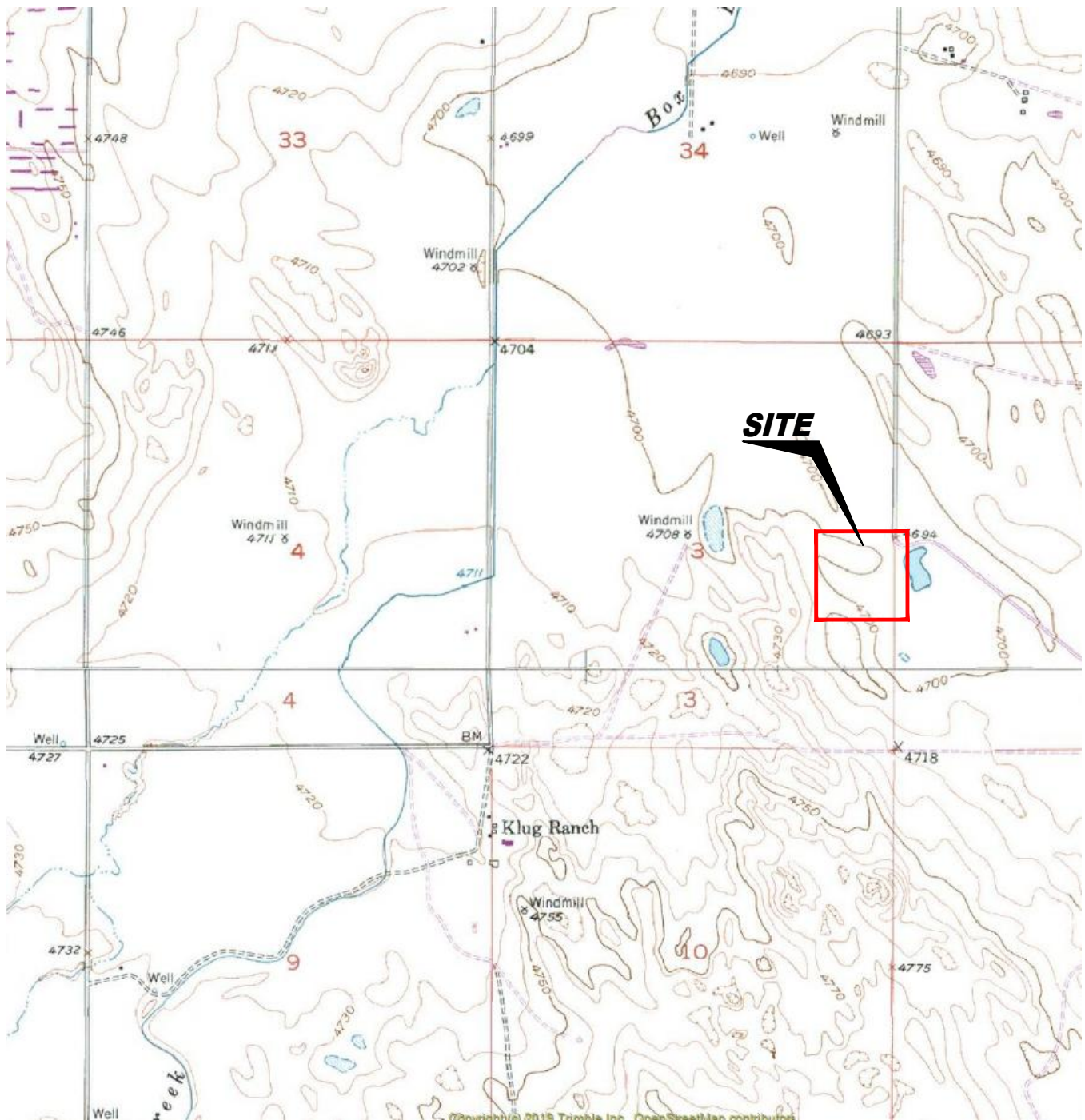


Paul V. Henahan, P.E.
Senior Consultant

Attachments:

- Figures
- Tables
- Facility Closure Checklist
- Photos
- Laboratory Reports

**1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)**



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

SITE LOCATION MAP


NOBLE ENERGY, INC.

GITTLEIN S3 L01

NESW Sec. 3, T3N, R64W, 6th PM

Weld County, Colorado

40.253545°, -104.540429°

Project # C022-128	API #	Facility # 482441	
Date 12/22/22	Remediation # 23986	Filename 22128T	




LEGEND

▲ PID READING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
		BUILDING	FLOW LINE
FL01 (2.5') PID 4.3 ppm	PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)		

Figure 2
SITE MAP

NOBLE ENERGY, INC.
GITTLEIN S3 L01
 NESW Sec. 3, T3N, R64W, 6th PM
 Weld County, Colorado
 40.253545°, -104.540429°

Project No. C022-128	API #	Facility # 482441	
Date 1/9/23	Remediation # 23986	Filename 22128QFL	



LEGEND

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER BUILDING
- CONTAINMENT BERM
- FLOW LINE

10/10/2022	DATE SAMPLED	09/14/2022	DATE SAMPLED	10/10/2022	DATE SAMPLED
AST01 (1.5)	SAMPLE ID and DEPTH (ft)	AST01 (1.5)	SAMPLE ID and DEPTH (ft)	AST01 (1.5)	SAMPLE ID and DEPTH (ft)
ACE	<0.00500	B	<0.0020	B	<0.0020
Ant	<0.00500	T	<0.0050	T	<0.0050
BaA	<0.00500	E	<0.0050	E	<0.0050
BaF	<0.00500	X	<0.010	X	<0.010
BaP	<0.00500	1,2,4-TB	<0.0050	1,2,4-TB	<0.0050
Ch	<0.00500	1,3,5-TB	<0.0050	1,3,5-TB	<0.0050
DBaHant	<0.00500	N	<0.0038	N	<0.0038
FLU	<0.00500	G	<0.50	G	<0.50
FL	<0.00500	D	<50	D	<50
1,1,2,3,4-PY	<0.00500	O	<50	O	<50
1-MN	<0.00500				
2-MN	<0.00500				
PY	<0.00500				

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY, INC.
GITTLEIN S3 L01
NESW Sec. 3, T3N, R64W, 6th PM
Weld County, Colorado
40.253545°, -104.540429°

Project No. C022-128	API #	Facility # 482441	
Date 1/9/23	Remediation # 23986	Filename 22128QFL	

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY LLC
HSR-GITTLEIN, L 6-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-128

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
FL05@3'	10/10/2022	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL08@4'	10/10/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL17@3'	10/10/2022	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FLA@7'	10/10/2022	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY LLC
HSR-GITTLEIN, L 6-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-128

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL05@3'	10/10/2022	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL08@4'	10/10/2022	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL17@3'	10/10/2022	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLA@7'	10/10/2022	7'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY LLC
HSR-GITTLEIN, L 6-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-128

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			<4	6 - 8.3	<6	2
FL05@3'	10/10/2022	3'	0.116	6.63	0.0313	0.0296
FL08@4'	10/10/2022	4'	4.44	7.42	4.24	0.0703
FL17@3'	10/10/2022	3'	1.45	7.5	0.565	0.0726
FLA@7'	10/10/2022	7'	0.658	7.8	0.848	0.101

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 4
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC.
HSR-GITTLEIN, L 6-3, WELD COUNTY, COLORADO
FREMONT PROJECT C022-128

Location	Latitude	Longitude	PID Reading	Field Observations
FLA@7'	40.253596	-104.540440	0	At Separator, No suspected impacts
FL01@3'	40.253760	-104.540320	3.5	No suspected impacts
FL02@3' (1)	40.254200	-104.540360	1.3	No suspected impacts
FL02@3' (2)	40.254180	-104.540330	1.6	No suspected impacts
FL03@2'	40.255000	-104.540370	0.7	Sweep, No suspected impacts
FL04@3'	40.255158	-104.540196	3.4	Sweep, No suspected impacts
FL05@3'	40.255155	-104.539599	7.2	90, No suspected impacts.
FL06@4'	40.255550	-104.539570	1.8	No suspected impacts
FL07@5'	40.255890	-104.539540	2.0	No suspected impacts
FL08@4'	40.256300	-104.539540	37.2	At Former Gittlein L6-3 WH, Elevated PID
FL09@4'	40.256690	-104.539570	3.5	No suspected impacts
FL10@4'	40.256940	-104.539540	4.3	No suspected impacts
FL11@4	40.257400	-104.539570	5.1	No suspected impacts
FL12@4'	40.257934	-104.539558	1.3	No suspected impacts
FL13@4'	40.258240	-104.539580	2.9	No suspected impacts
FL14@4'	40.258514	-104.539558	1.2	No suspected impacts
FL15@4'	40.258950	-104.539590	3.1	No suspected impacts
FL16@3'	40.259530	-104.539560	4.8	No suspected impacts
FL17@3'	40.260000	-104.539550	0.7	At Former Gittlein L3-3 WH, No suspected impacts

TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
HSR-GITTLEIN, L 6-3, WELD COUNTY, COLORADO
FREMONT PROJECT C022-128

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
FLA	FL01	67	2" Sch 80 welded steel pipe, white and black tape, good condition
FL01	FL02	154	2" Sch 80 welded steel pipe, white and black tape, good condition
FL02	FL03	300	2" Sch 80 welded steel pipe, white and black tape, good condition
FL03	FL04	75	2" Sch 80 welded steel pipe, white and black tape, good condition
FL04	FL05	165	2" Sch 80 welded steel pipe, white and black tape, good condition
FL05	FL06	144	2" Sch 80 welded steel pipe, white and black tape, good condition
FL06	FL07	125	2" Sch 80 welded steel pipe, white and black tape, good condition
FL07	FL08	274	2" Sch 80 welded steel pipe, white and black tape, good condition
FL08	FL09	141	2" Sch 80 welded steel pipe, white and black tape, good condition
FL09	FL10	91	2" Sch 80 welded steel pipe, white and black tape, good condition
FL10	FL11	167	2" Sch 80 welded steel pipe, white and black tape, good condition
FL11	FL12	194	2" Sch 80 welded steel pipe, white and black tape, good condition
FL12	FL13	112	2" Sch 80 welded steel pipe, white and black tape, good condition
FL13	FL14	101	2" Sch 80 welded steel pipe, white and black tape, good condition
FL14	FL15	159	2" Sch 80 welded steel pipe, white and black tape, good condition
FL15	FL16	212	2" Sch 80 welded steel pipe, white and black tape, good condition
FL16	FL17	172	2" Sch 80 welded steel pipe, white and black tape, good condition

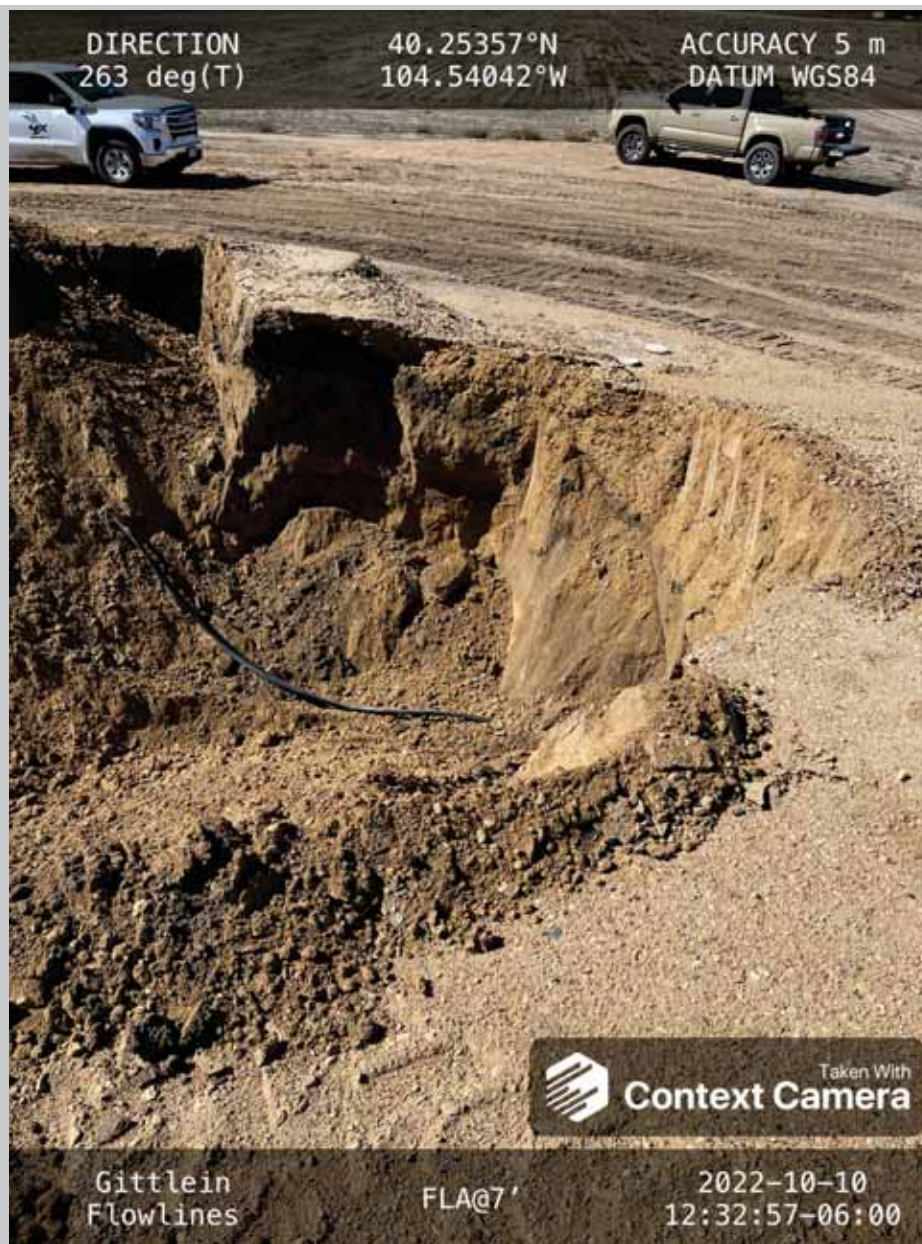
2653 Total linear feet of flow line

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: HSR-Gittlein, L6-3 (123-18458)		Date: 10/10/2022					Remediation Project #: 23878	
Associated Wells: 123-18458		Age of Site: Unknown					Number of Photos Attached: See attached	
Starting point: (GPS coordinates and descriptions) 40.253596, -104.540440								
End point: (GPS coordinates and descriptions) 40.260000, -104.539550								
USCS Soil Type: SP, SM and ML					Estimated Depth to Groundwater: 23' to 25'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Moderately elevated PIDs measured at the FL08 location.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
No observed salt crusted soil or impacted vegetation.								
Flowlines								
Flowline type	Wellhead Line							
Depth	2' to 7'							
Age	Unknown							
Length	2,653'							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Good condition							
Visual impacts if trenched	No							
PID Readings if trenched	0 to 37.2 ppm							
Sample taken? Location/Sample ID#	See attached							
Photo Number(s)	See attached							
Other observations regarding on location flowlines:								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 19					Total number of samples collected: 19			
Highest PID Reading: 37.2 ppm					Total number of samples submitted to lab for analysis: 4			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:			
Free product observed? Yes No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

Photo Log



Description:

FLA@7'

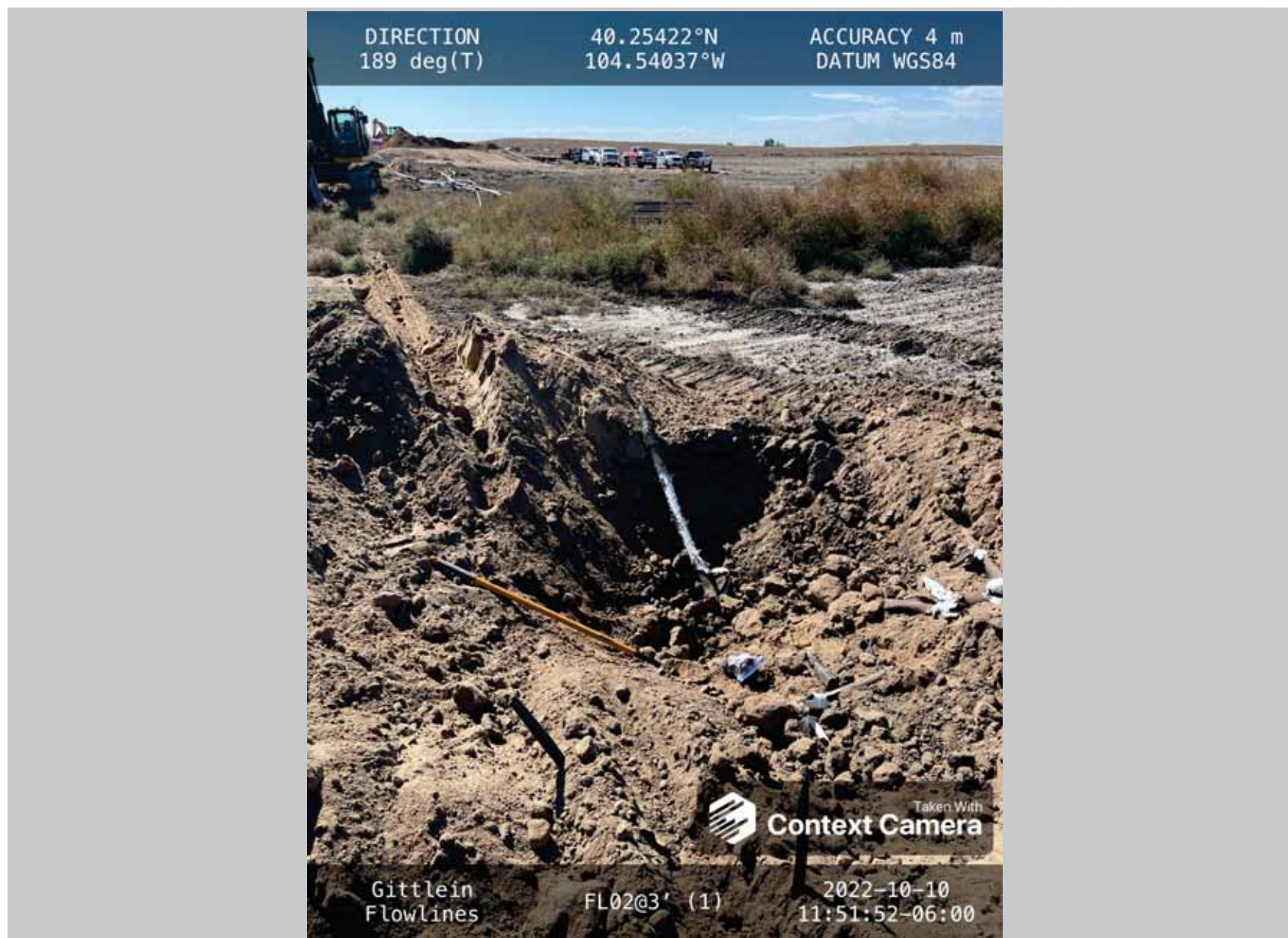
Photo Log



Description:

FL01@3'

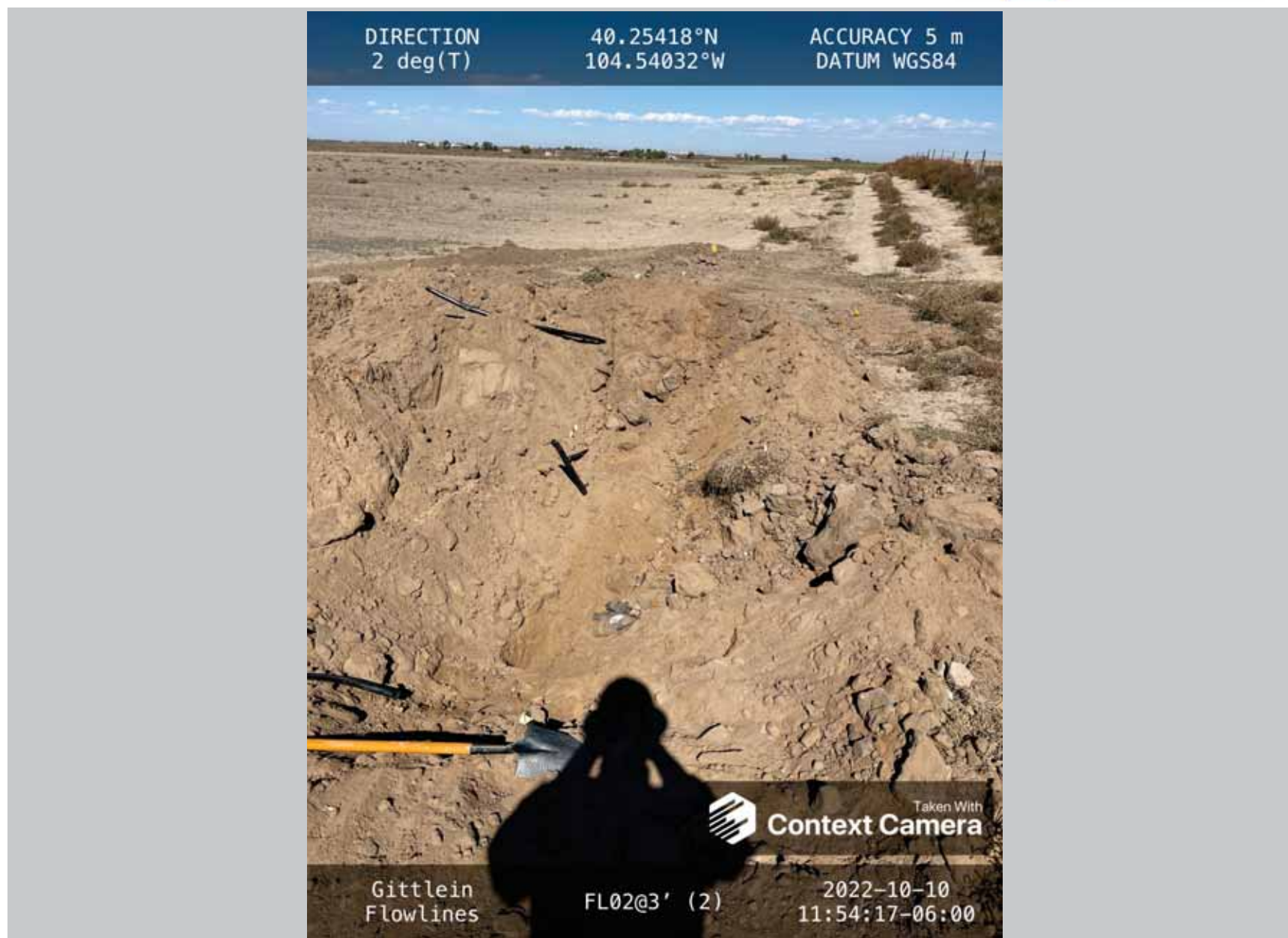
Photo Log



Description:

FL02@3' (1)

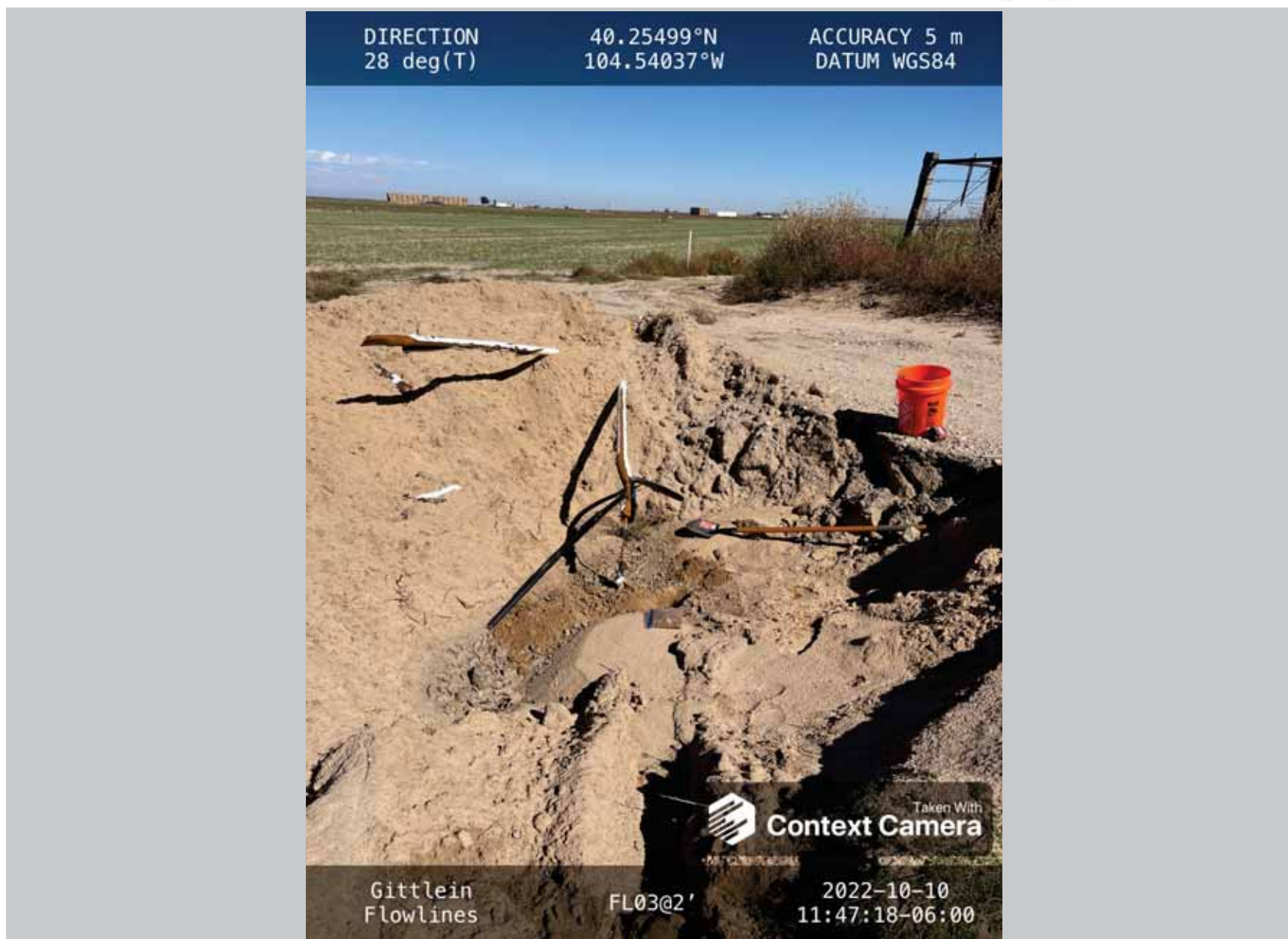
Photo Log



Description:

FL02@3' (2)

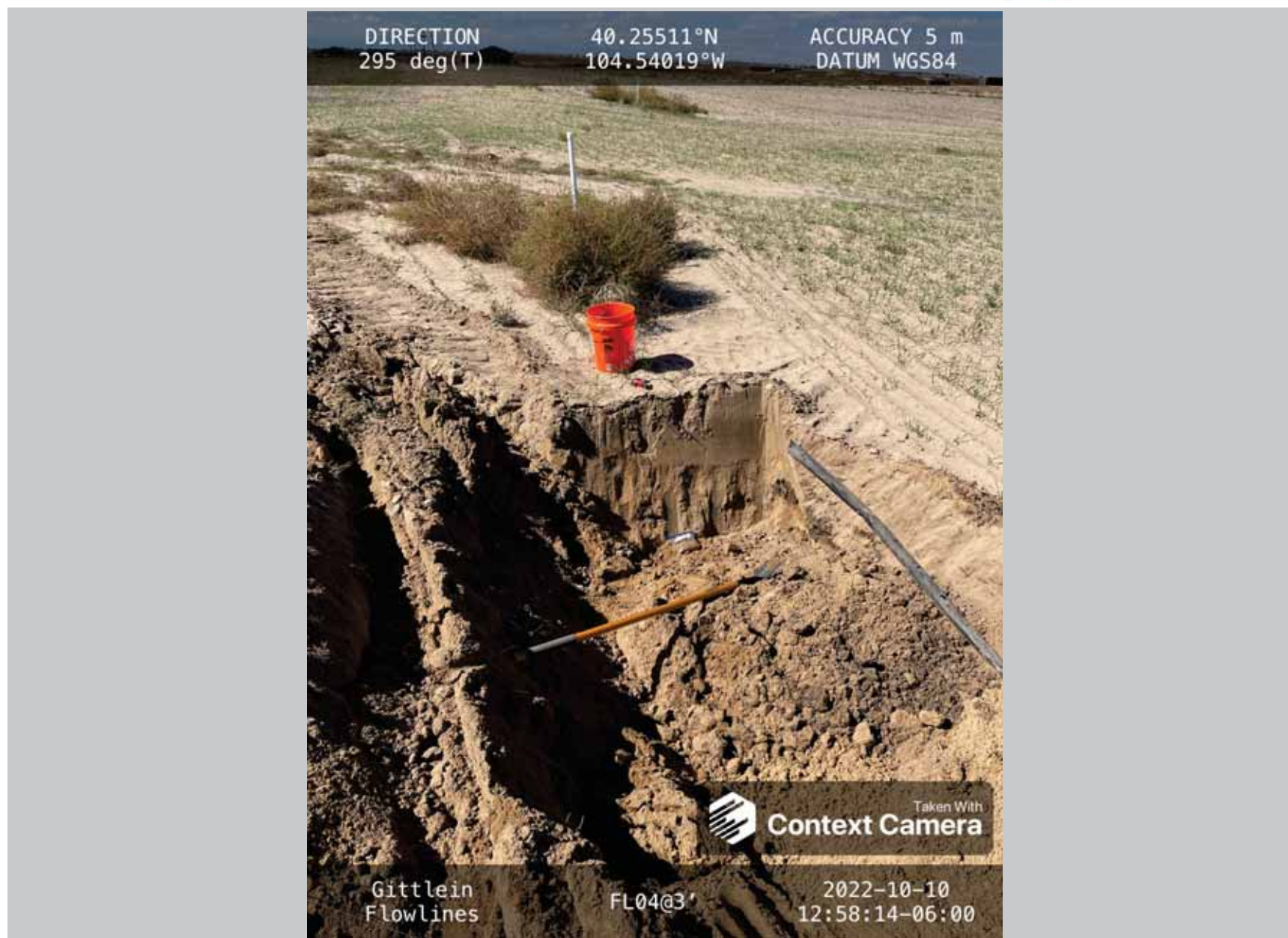
Photo Log



Description:

FL03@2'

Photo Log



Description:

FL04@3'

Photo Log



Description:

FL05@3'

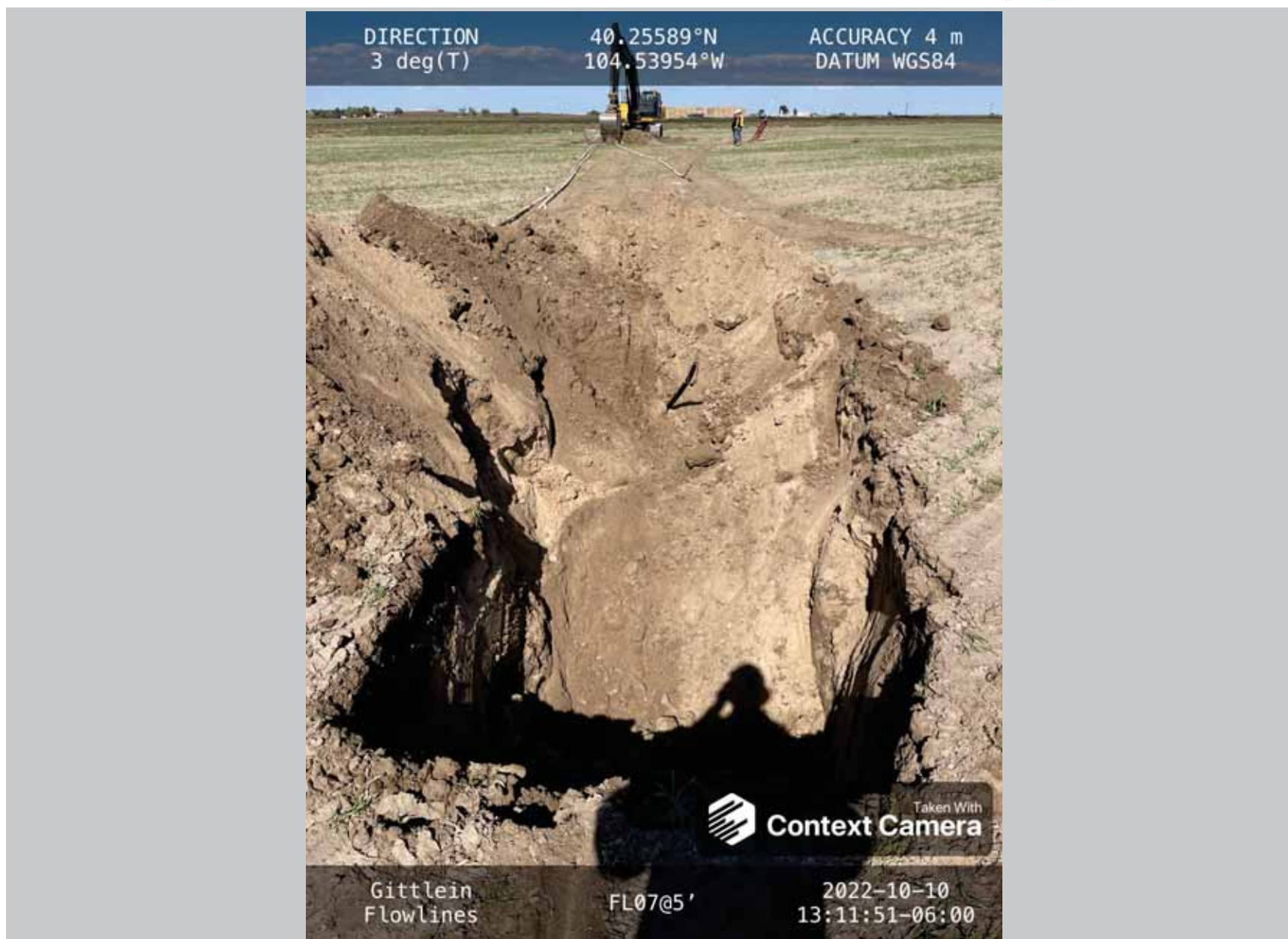
Photo Log



Description:

FL06@4'

Photo Log



Description:

FL07@5'

Photo Log



Description:

FL08@4'

Photo Log



Description:

FL09@4'

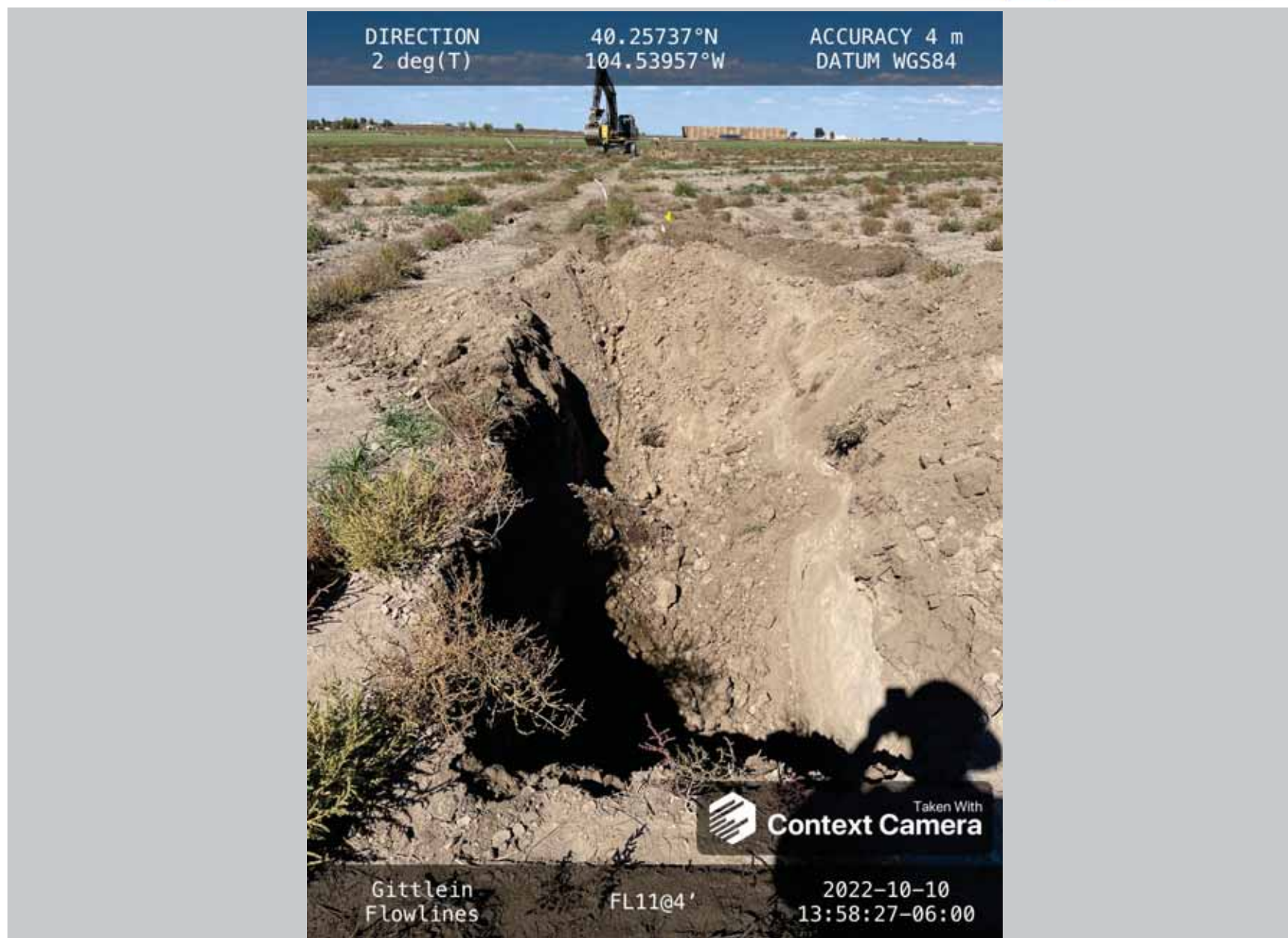
Photo Log



Description:

FL10@4'

Photo Log



Description:

FL11@4'

Photo Log



Description:

FL12@4'

Photo Log



Description:

FL13@4'

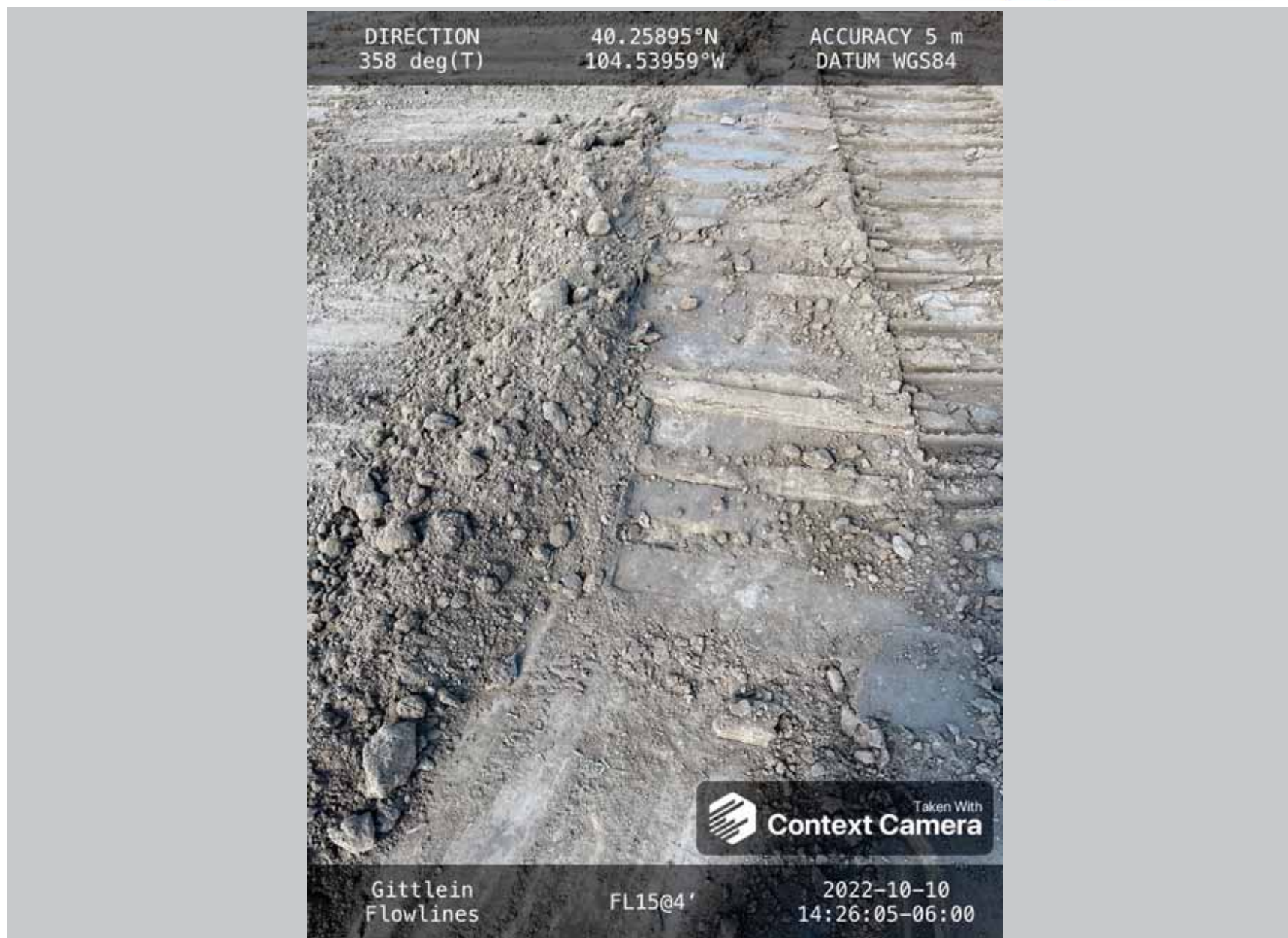
Photo Log



Description:

FL14@4'

Photo Log



Description:

FL15@4' (Backfilled)

Photo Log



Description:

FL16@3'

Photo Log



Description:

FL17@3'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 24, 2022

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Gittlein L6-3, L3-3

Work Order #2210193

Enclosed are the results of analyses for samples received by Summit Scientific on 10/12/22 11:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLA@7'	2210193-01	Soil	10/10/22 00:00	10/12/22 11:50
FL05@3'	2210193-02	Soil	10/10/22 00:00	10/12/22 11:50
FL08@4'	2210193-03	Soil	10/10/22 00:00	10/12/22 11:50
FL17@3'	2210193-04	Soil	10/10/22 00:00	10/12/22 11:50

Summit Scientific

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

Summit Scientific

S₂

2210193

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page

of

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Gittlein L6-3, L3-3

Sampler Name: Chris Latter

Project Number:

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	TPH, BTEX, TMBS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD				
1	FLA @ 7'	10/10/22		3			X			X				X	X	X						
2	FL05 @ 3'	↓		3			X			X				↓	↓	↓						
3	FL08 @ 4'	↓		3			X			X				↓	↓	↓						
4	FL7 @ 3'	10/10/22		3			X			X				X	X	X						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: Flowlines
Chris Latter	10/12/22 11:50		10/12/22 11:50	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours	Standard	
				Sample Integrity:		
				Temperature Upon Receipt:	73	
				Samples Intact:	Yes	No

S₂

Sample Receipt Checklist

S2 Work Order# 2210193

Client: Chemco Client Project ID: _____Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 2.3 Thermometer # 2

	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"/>	in ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hex Cr
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no project name
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HNO ₃
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

AT
Custodian Printed Name

10.12.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FLA@7'
2210193-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0332	10/13/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		142 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0334	10/13/22	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		141 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FLA@7'
2210193-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.101	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FLA@7'
2210193-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	59.7	0.0529	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B
Magnesium	18.0	0.0529	"	"	"	"	"	"
Sodium	29.1	0.0529	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.848	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.658	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

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

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL05@3'
2210193-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0332	10/13/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0334	10/13/22	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		149 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL05@3'
2210193-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0296	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL05@3'
2210193-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	40.7	0.0525	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B
Magnesium	11.6	0.0525	"	"	"	"	"	"
Sodium	0.880	0.0525	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0313	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

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

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.63		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL08@4'
2210193-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0332	10/13/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		130 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0334	10/13/22	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		140 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL08@4'
2210193-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		104 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0703	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL08@4'
2210193-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	462	0.0559	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B
Magnesium	172	0.0559	"	"	"	"	"	"
Sodium	420	0.0559	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.24	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.44	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

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

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.42		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL17@3'
2210193-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0332	10/13/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0334	10/13/22	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		138 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL17@3'
2210193-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		79.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0726	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

FL17@3'
2210193-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	191	0.0602	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B
Magnesium	39.1	0.0602	"	"	"	"	"	"
Sodium	32.8	0.0602	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.565	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.45	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

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

Date Sampled: **10/10/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0332 - EPA 5030 Soil MS

Blank (BFJ0332-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0536		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0458		"	0.0400		115	50-150			

LCS (BFJ0332-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0761	0.0020	mg/kg	0.100		76.1	70-130			
Toluene	0.0798	0.0050	"	0.100		79.8	70-130			
Ethylbenzene	0.0804	0.0050	"	0.100		80.4	70-130			
m,p-Xylene	0.164	0.010	"	0.200		81.8	70-130			
o-Xylene	0.0830	0.0050	"	0.100		83.0	70-130			
1,2,4-Trimethylbenzene	0.0879	0.0050	"	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130			
Naphthalene	0.0920	0.0038	"	0.100		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0508		"	0.0400		127	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0456		"	0.0400		114	50-150			

Matrix Spike (BFJ0332-MS1)

Source: 2210171-01

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0807	0.0020	mg/kg	0.100	ND	80.7	70-130			
Toluene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
Ethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.3	70-130			
o-Xylene	0.0802	0.0050	"	0.100	ND	80.2	70-130			
1,2,4-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
1,3,5-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4	70-130			
Naphthalene	0.0995	0.0038	"	0.100	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0496		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0460		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0332 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0332-MSD1)		Source: 2210171-01			Prepared: 10/13/22 Analyzed: 10/14/22					
Benzene	0.0772	0.0020	mg/kg	0.100	ND	77.2	70-130	4.48	30	
Toluene	0.0753	0.0050	"	0.100	ND	75.3	70-130	2.95	30	
Ethylbenzene	0.0797	0.0050	"	0.100	ND	79.7	70-130	1.71	30	
m,p-Xylene	0.161	0.010	"	0.200	ND	80.5	70-130	2.76	30	
o-Xylene	0.0818	0.0050	"	0.100	ND	81.8	70-130	2.07	30	
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130	3.20	30	
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130	2.84	30	
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130	3.15	30	
Surrogate: 1,2-Dichloroethane-d4		0.0489	"	0.0400		122	50-150			
Surrogate: Toluene-d8		0.0455	"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene		0.0447	"	0.0400		112	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0334 - EPA 3550A

Blank (BFJ0334-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFJ0334-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	635	50	mg/kg	500	127	70-130
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Matrix Spike (BFJ0334-MS1)

Source: 2210171-03

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	614	50	mg/kg	500	18.7	119	70-130
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Matrix Spike Dup (BFJ0334-MSD1)

Source: 2210171-03

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	567	50	mg/kg	500	18.7	110	70-130	7.95	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0316 - EPA 5030 Soil MS

Blank (BFJ0316-BLK1)

Prepared & Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.1	40-150			
Surrogate: Fluoranthene-d10	0.0339		"	0.0333		102	40-150			

LCS (BFJ0316-BS1)

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0329	0.00500	mg/kg	0.0333		98.7	31-137			
Anthracene	0.0264	0.00500	"	0.0333		79.1	30-120			
Benzo (a) anthracene	0.0235	0.00500	"	0.0333		70.5	30-120			
Benzo (a) pyrene	0.0233	0.00500	"	0.0333		70.0	30-120			
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333		62.8	30-120			
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333		62.7	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.7	30-120			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Fluoranthene	0.0247	0.00500	"	0.0333		74.1	30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0356	0.00500	"	0.0333		107	30-120			
Pyrene	0.0293	0.00500	"	0.0333		88.0	35-142			
1-Methylnaphthalene	0.0120	0.00500	"	0.0333		36.1	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2	40-150			
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.7	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0316 - EPA 5030 Soil MS

Matrix Spike (BFJ0316-MS1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.8	31-137			
Anthracene	0.0190	0.00500	"	0.0333	ND	56.9	30-120			
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.3	30-120			
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120			
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120			
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120			
Fluoranthene	0.0283	0.00500	"	0.0333	ND	85.0	30-120			
Fluorene	0.0192	0.00500	"	0.0333	ND	57.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Pyrene	0.0205	0.00500	"	0.0333	ND	61.5	35-142			
1-Methylnaphthalene	0.00742	0.00500	"	0.0333	ND	22.3	15-130			
2-Methylnaphthalene	0.0130	0.00500	"	0.0333	ND	38.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.3	40-150			
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2	40-150			

Matrix Spike Dup (BFJ0316-MSD1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	17.8	30	
Anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	7.58	30	
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	2.95	30	
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	6.67	30	
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	0.793	30	
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	1.34	30	
Chrysene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	9.27	30	
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	8.86	30	
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120	29.3	30	
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	17.1	30	
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	10.2	30	
Pyrene	0.0211	0.00500	"	0.0333	ND	63.2	35-142	2.86	30	
1-Methylnaphthalene	0.00716	0.00500	"	0.0333	ND	21.5	15-130	3.59	50	
2-Methylnaphthalene	0.0125	0.00500	"	0.0333	ND	37.5	15-130	3.59	50	
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.4	40-150			
Surrogate: Fluoranthene-d10	0.0227		"	0.0333		68.0	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFJ0352 - EPA 3050B

Blank (BFJ0352-BLK1)

Prepared: 10/14/22 Analyzed: 10/15/22

Boron ND 0.0100 mg/L

LCS (BFJ0352-BS1)

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.49 0.0100 mg/L 5.00 110 80-120

Duplicate (BFJ0352-DUP1)

Source: 2210167-01

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 0.147 0.0100 mg/L 0.155 5.38 20

Matrix Spike (BFJ0352-MS1)

Source: 2210167-01

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.51 0.0100 mg/L 5.00 0.155 107 75-125

Matrix Spike Dup (BFJ0352-MSD1)

Source: 2210167-01

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.46 0.0100 mg/L 5.00 0.155 106 75-125 0.936 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFJ0496 - General Preparation

Blank (BFJ0496-BLK1)

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFJ0496-BS1)

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	4.69	0.0500	mg/L wet	5.00	93.8	70-130
Magnesium	5.30	0.0500	"	5.00	106	70-130
Sodium	5.26	0.0500	"	5.00	105	70-130

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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

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

Summit Scientific

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

Batch BFJ0423 - General Preparation

Duplicate (BFJ0423-DUP1)		Source: 2210184-01		Prepared: 10/17/22 Analyzed: 10/18/22	
% Solids	90.4		%	88.7	1.96 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFJ0536 - General Preparation

Blank (BFJ0536-BLK1)

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0536-BS1)

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BFJ0536-DUP1)

Source: 2210188-01

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.415 0.0100 mmhos/cm 0.424 2.15 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

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

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

Batch BFJ0535 - General Preparation

LCS (BFJ0535-BS1)

Prepared & Analyzed: 10/20/22

pH	8.96	pH Units	9.18	97.6	95-105
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Duplicate (BFJ0535-DUP1)

Source: 2210188-01

Prepared & Analyzed: 10/20/22

pH	7.85	pH Units	8.20	4.36	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: Noble - Gittlein L6-3, L3-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/24/22 10:22

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