

FREMONT ENVIRONMENTAL INC.

January 17, 2022

Mr. Mike Hickey
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

Subject: **Wellhead Closure Data Submittal**
 Nordman Trust 42-20X (Wellhead)
 API # 05-039-06541
 SENE Sec. 20, T6S, R64W
 Elbert County, Colorado
 Facility #209636, Remediation #20822
 Fremont Project No. C021-084

Dear Mr. Hickey:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted wellhead closure activities for the Nordman Trust 42-20X wellhead location. Impacted soil was encountered adjacent to the former wellhead during abandonment activities. These soil impacts were left in place as documented in the attached Closure Report. Removal of impacts will be scheduled concurrently with the abandonment of associated flowline and facility equipment.

Groundwater was not encountered in the wellhead excavation.

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. Henehan, P.E.
Senior Consultant

Attachments:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Report

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

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure
		Partially Buried Vault Closure				
Site Name & COGCC Facility Number:		Date:				Remediation Project #:
Associated Wells:		Age of Site:				Number of Photos Attached:
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
USCS Soil Type:				Estimated Depth to Groundwater:		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
Wellhead(s)						
Well API						
Age						
Condition of surface around wellhead						
PID Readings						
Condition of subsurface (staining present)						
PID Readings						
Sample taken?						
Location/Sample ID#						
Photo Number(s)						
Other observations regarding wellheads:						
Summary						
Was impacted soil identified?						
No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards		
Total number of samples field screened:				Total number of samples collected:		
Highest PID Reading:				Total number of samples submitted to lab for analysis:		
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:						

TABLE 1
SUMMARY OF ORGANIC (VOC AND TPH) SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
NORDMAN TRUST 42-20X (WELLHEAD), ELBERT COUNTY, COLORADO
FREMONT PROJECT NO. C021-084

Sample	Depth (ft)	Date Sampled	Location	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)	Naphth- alene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
N Wall 3 Ft	3	12/17/2021	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
S Wall 6 Ft	6	12/17/2021	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	160	<50
E Wall 6 Ft	6	12/17/2021	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
W Wall 6 Ft	6	12/17/2021	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.026	<0.0038	5.9	99	<50
Floor 8 Ft	8	12/17/2021	Floor	<0.0020	<0.0050	0.01	0.077	<0.0050	<0.0050	<0.0038	0.73	<50	<50
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	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	500	500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBONS (PAH) SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
NORDMAN TRUST 42-20X (WELLHEAD), ELBERT COUNTY, COLORADO
FREMONT PROJECT NO. C021-084

Sample	Depth (ft)	Date Sampled	Location	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
W Well 6 Ft	6	12/17/2021	Well	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0409	<0.005	<0.005	0.113	<0.005	0.599	0.556	<0.005
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
NORDMAN TRUST 42-20X (WELLHEAD), ELBERT COUNTY, COLORADO
FREMONT PROJECT NO. C021-084

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
N Wall 3 Ft	12/17/2021	3	0.438	7.89	1.37	0.0329
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

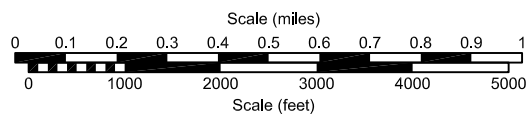
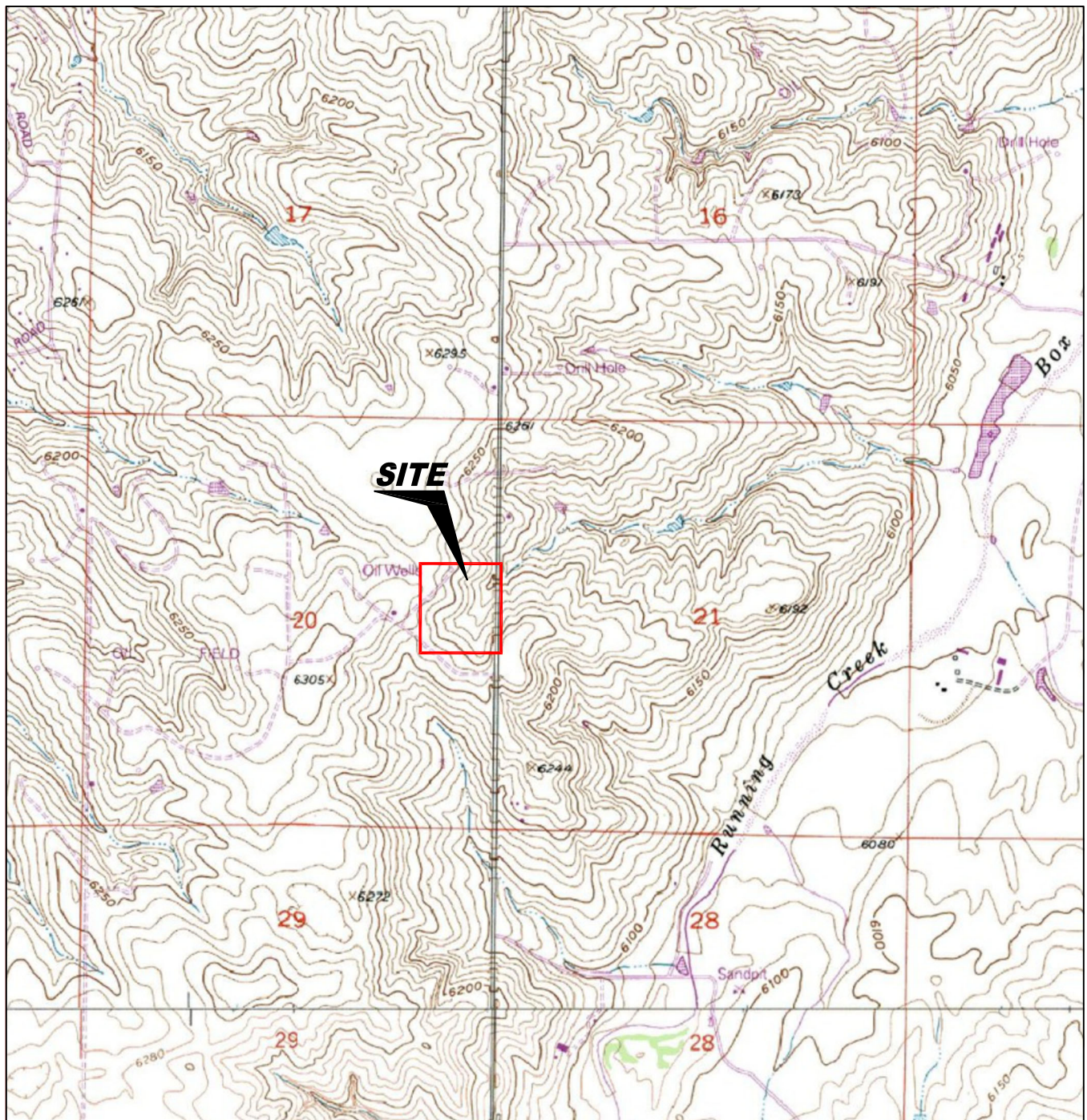
TABLE 4
SUMMARY OF METALS SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
NORDMAN TRUST 42-20X (WELLHEAD), ELBERT COUNTY, COLORADO
FREMONT PROJECT NO. C021-084

Sample	Depth (ft)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (mg/kg)
W Wall 6 Ft	6	12/17/2021	3.78	146	<0.244	14.3	23.2	13.2	1.19	0.0703	56.1	<0.3
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA- Not analyzed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Colorado Oil & Gas Conservation Commission
Nordman Trust 42-20X
SENE Sec. 20, T6S, R64W, 6th PM
Elbert County, Colorado

Project # C021-084	API # 05-039-06541	Facility # 209636
Date 1/18/22	Reviewed By EB	Filename 21084T





LEGEND

● WELLHEAD LOCATION - - - - - EXTENT OF EXCAVATION - - - - - FENCE LINE

**Figure 2
SITE MAP**

Colorado Oil & Gas Conservation Commission
Nordman Trust 42-20X
 SENE Sec. 20, T6S, R64W, 6th PM
 Elbert County, Colorado

Project No. C021-084	API # 05-039-06541	Facility # 209636
Date 1/18/22	Reviewed By EB	Filename 21084Q

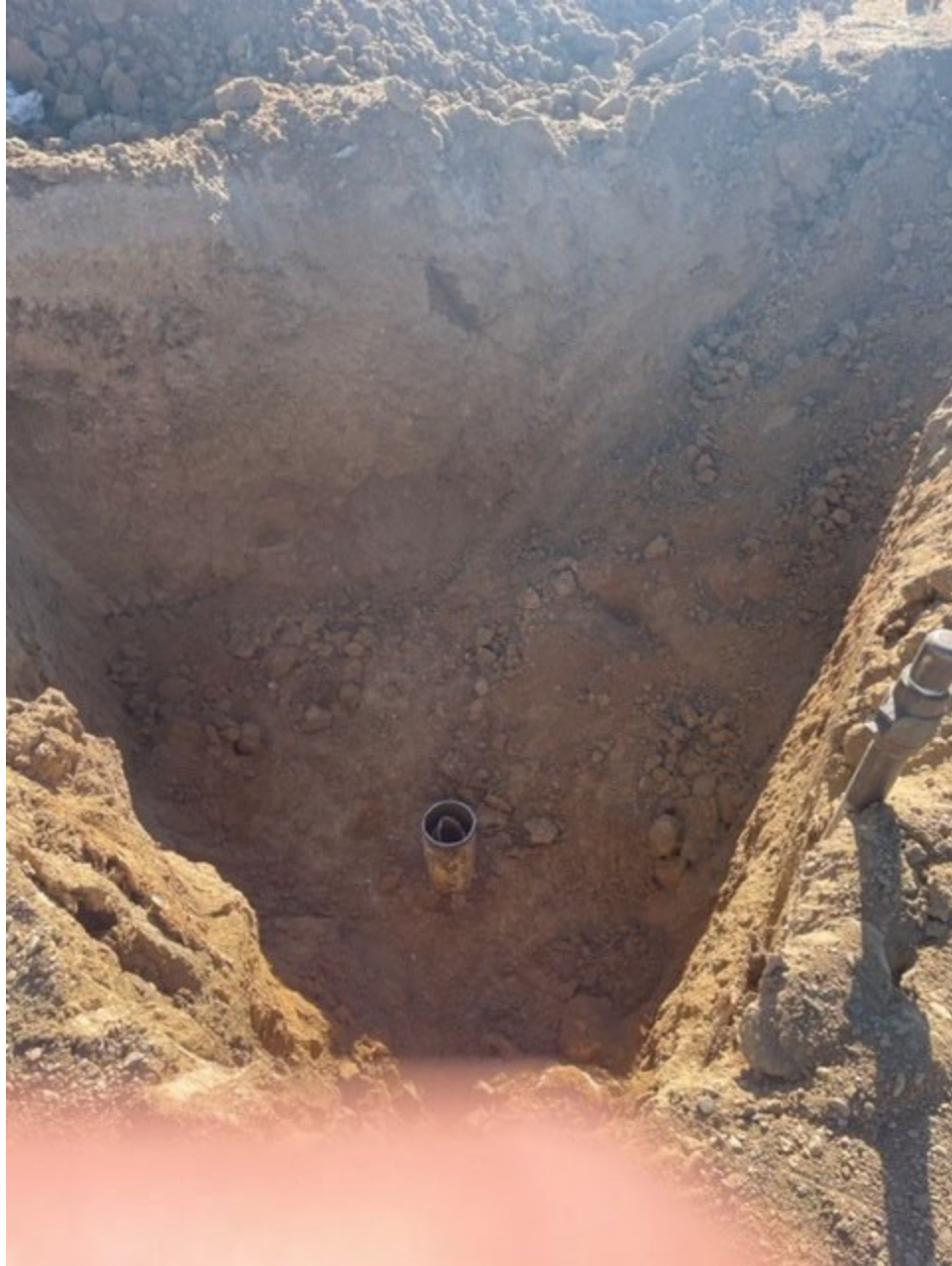




1 – Nordman Trust 42-20X – wellhead excavation, looking northeast



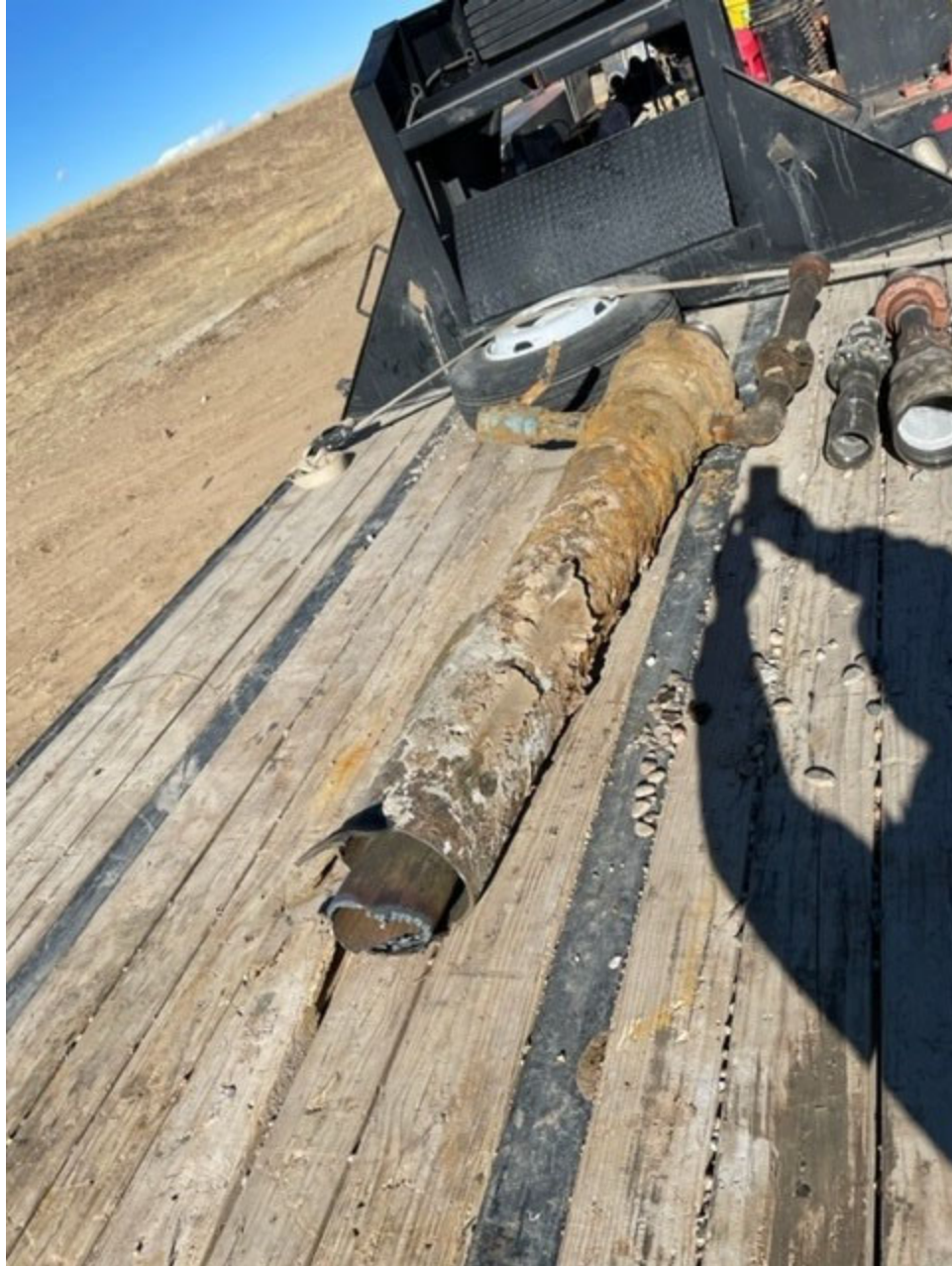
2 – Nordman Trust 42-20X – wellhead cut and cap in process



3 – Nordman Trust 42-20X – wellhead cut eight feet below grade



4 – Nordman Trust 42-20X – wellhead excavation, looking northwest at potentially impacted soil



5 – Nordman Trust 42-20X – wellhead following removal



6 – Nordman Trust 42-20X – wellhead capped with nameplate

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 03, 2022

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: COGCC - Nordman Trust 42-20X

Work Order #2112336

Enclosed are the results of analyses for samples received by Summit Scientific on 12/17/21 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 3 ft	2112336-01	Soil	12/17/21 00:00	12/17/21 17:35
E Wall 6 ft	2112336-02	Soil	12/17/21 00:00	12/17/21 17:35
W Wall 6 ft	2112336-03	Soil	12/17/21 00:00	12/17/21 17:35
S Wall 6 ft	2112336-04	Soil	12/17/21 00:00	12/17/21 17:35
Floor 8 ft	2112336-05	Soil	12/17/21 00:00	12/17/21 17:35

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

2112336

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page | of |

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com, jeffg@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: FREMONT

Phone: 303-956-8714

Project Name: COGCC - Nordman Trust 42-20x

Sampler Name: EB, JG

Project Number: CO21-084

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	BTEX/TMS	Naphthalene	GRO	DRO/GRO	SAR	EC	pH	Boron		
1	N WALL 3FT	12/17/21		2			X			X				X	X	X	X	X	X	X		
2	E WALL 6FT			2																		
3	W WALL 6FT			1																		
4	S WALL 6FT			1																		
5	FLOOR 8FT			1																		
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/17/21 1735</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12-17-21 17:35</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	
				24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	72 hours <input type="checkbox"/>
				Standard <input checked="" type="checkbox"/>	
Sample Integrity:					
Temperature Upon Receipt: <u>3.7</u>					
Samples Intact: <u>Yes</u> No					

S₂

Sample Receipt Checklist

S2 Work Order# 2112336Client: FREMONT ENV. Client Project ID: COGCC- NORMAN TRUSTShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	3.7
-----------	-----

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°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"/>	
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽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"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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.
Muri P
 Custodian Printed Name or Initials

12-17-21
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

N Wall 3 ft
2112336-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0476	12/21/21	12/22/21	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: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0477	12/21/21	12/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.1 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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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.



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PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

N Wall 3 ft
2112336-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0329	0.0100	mg/L	1	BEL0528	12/22/21	12/27/21	EPA 6020B	

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

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.2	0.0607	mg/L dry	1	BEL0584	12/27/21	12/28/21	EPA 6020B	
Magnesium	10.0	0.0607	"	"	"	"	"	"	
Sodium	34.7	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.37	0.00100	units	1	BEL0628	12/29/21	12/29/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BEL0558	12/27/21	12/27/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.438	0.0100	mmhos/cm	1	BEL0608	12/28/21	12/28/21	EPA 120.1	

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

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PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

N Wall 3 ft
2112336-01 (Soil)

Summit Scientific

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

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.89			pH Units	1	BEL0607	12/28/21	12/28/21	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

E Wall 6 ft
2112336-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0476	12/21/21	12/22/21	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: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0477	12/21/21	12/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		83.8 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

W Wall 6 ft
2112336-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0476	12/21/21	12/22/21	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	0.026	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.9	0.50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	99	50	mg/kg	1	BEL0477	12/21/21	12/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		73.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

W Wall 6 ft
2112336-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0530	12/23/21	12/27/21	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	0.0409	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.113	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.599	0.0500	"	10	"	"	"	"	
2-Methylnaphthalene	0.556	0.0500	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		115 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.78	0.244	mg/kg dry	1	BEL0522	12/22/21	12/27/21	EPA 6020B	
Barium	146	0.489	"	"	"	"	"	"	
Cadmium	ND	0.244	"	"	"	"	"	"	
Copper	14.3	0.489	"	"	"	"	"	"	
Lead	23.2	0.244	"	"	"	"	"	"	
Nickel	13.2	0.489	"	"	"	"	"	"	
Selenium	1.19	0.318	"	"	"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

W Wall 6 ft
2112336-03 (Soil)

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Total Metals by EPA 6020B

Silver	0.0703	0.0244	mg/kg dry	1	BEL0522	12/22/21	12/27/21	EPA 6020B
Zinc	56.1	0.489	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEL0571	12/27/21	12/27/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BEL0558	12/27/21	12/27/21	Calculation	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

S Wall 6 ft
2112336-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0476	12/21/21	12/22/21	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: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0477	12/21/21	12/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Floor 8 ft
2112336-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0476	12/21/21	12/22/21	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: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0477	12/21/21	12/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		75.6 %	30-150		"	"	"	"	

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PO Box 1289
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Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0476 - EPA 5030 Soil MS

Blank (BEL0476-BLK1)

Prepared & Analyzed: 12/21/21

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	0.0447		"	0.0400		112	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	21-167			

LCS (BEL0476-BS1)

Prepared & Analyzed: 12/21/21

Benzene	0.0616	0.0020	mg/kg	0.0750		82.1	70-130			
Toluene	0.0699	0.0050	"	0.0750		93.2	70-130			
Ethylbenzene	0.0638	0.0050	"	0.0750		85.0	70-130			
m,p-Xylene	0.129	0.010	"	0.150		86.0	70-130			
o-Xylene	0.0667	0.0050	"	0.0750		88.9	70-130			
1,2,4-Trimethylbenzene	0.0678	0.0050	"	0.0750		90.4	70-130			
1,3,5-Trimethylbenzene	0.0668	0.0050	"	0.0750		89.1	70-130			
Naphthalene	0.0676	0.0038	"	0.0750		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0455		"	0.0400		114	23-173			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167			

Matrix Spike (BEL0476-MS1)

Source: 2112069-02

Prepared & Analyzed: 12/21/21

Benzene	0.0604	0.0020	mg/kg	0.0750	ND	80.6	70-130			
Toluene	0.0682	0.0050	"	0.0750	ND	91.0	70-130			
Ethylbenzene	0.0626	0.0050	"	0.0750	ND	83.4	70-130			
m,p-Xylene	0.127	0.010	"	0.150	ND	84.7	70-130			
o-Xylene	0.0656	0.0050	"	0.0750	ND	87.5	70-130			
1,2,4-Trimethylbenzene	0.0674	0.0050	"	0.0750	ND	89.8	70-130			
1,3,5-Trimethylbenzene	0.0660	0.0050	"	0.0750	ND	88.0	70-130			
Naphthalene	0.0710	0.0038	"	0.0750	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0476 - EPA 5030 Soil MS

Matrix Spike Dup (BEL0476-MSD1)	Source: 2112069-02			Prepared: 12/21/21 Analyzed: 12/22/21						
Benzene	0.0575	0.0020	mg/kg	0.0750	ND	76.7	70-130	4.94	30	
Toluene	0.0637	0.0050	"	0.0750	ND	84.9	70-130	6.91	30	
Ethylbenzene	0.0567	0.0050	"	0.0750	ND	75.6	70-130	9.81	30	
m,p-Xylene	0.116	0.010	"	0.150	ND	77.3	70-130	9.16	30	
o-Xylene	0.0603	0.0050	"	0.0750	ND	80.4	70-130	8.43	30	
1,2,4-Trimethylbenzene	0.0620	0.0050	"	0.0750	ND	82.6	70-130	8.30	30	
1,3,5-Trimethylbenzene	0.0603	0.0050	"	0.0750	ND	80.4	70-130	9.07	30	
Naphthalene	0.0702	0.0038	"	0.0750	ND	93.6	70-130	1.10	30	
Surrogate: 1,2-Dichloroethane-d4	0.0449		"	0.0400		112	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEL0477 - EPA 3550A

Blank (BEL0477-BLK1)

Prepared & Analyzed: 12/21/21

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

LCS (BEL0477-BS1)

Prepared & Analyzed: 12/21/21

C10-C28 (DRO)	400	50	mg/kg	500	80.0	70-130
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Matrix Spike (BEL0477-MS1)

Source: 2112069-02

Prepared & Analyzed: 12/21/21

C10-C28 (DRO)	470	50	mg/kg	500	23.2	89.5	70-130
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Matrix Spike Dup (BEL0477-MSD1)

Source: 2112069-02

Prepared & Analyzed: 12/21/21

C10-C28 (DRO)	450	50	mg/kg	500	23.2	85.5	70-130	4.34	20
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PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0530 - EPA 5030 Soil MS

Blank (BEL0530-BLK1)

Prepared: 12/23/21 Analyzed: 12/27/21

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	0.0348		"	0.0333		104	40-150			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.6	40-150			

LCS (BEL0530-BS1)

Prepared: 12/23/21 Analyzed: 12/27/21

Acenaphthene	0.0336	0.00500	mg/kg	0.0333	101	31-137				
Anthracene	0.0358	0.00500	"	0.0333	107	30-120				
Benzo (a) anthracene	0.0312	0.00500	"	0.0333	93.6	30-120				
Benzo (a) pyrene	0.0297	0.00500	"	0.0333	89.2	30-120				
Benzo (b) fluoranthene	0.0346	0.00500	"	0.0333	104	30-120				
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120				
Chrysene	0.0340	0.00500	"	0.0333	102	30-120				
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	60.2	30-120				
Fluoranthene	0.0321	0.00500	"	0.0333	96.3	30-120				
Fluorene	0.0363	0.00500	"	0.0333	109	30-120				
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	66.2	30-120				
Pyrene	0.0234	0.00500	"	0.0333	70.2	35-142				
1-Methylnaphthalene	0.0307	0.00500	"	0.0333	92.0	35-142				
2-Methylnaphthalene	0.0196	0.00500	"	0.0333	58.9	35-142				
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333	104	40-150				
Surrogate: Fluoranthene-d10	0.0310		"	0.0333	93.1	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEL0530 - EPA 5030 Soil MS

Matrix Spike (BEL0530-MS1)		Source: 2112324-01			Prepared: 12/23/21 Analyzed: 12/27/21						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.8	31-137				
Anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120				
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	0.0113	32.6	30-120				
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	ND	83.7	30-120				
Benzo (b) fluoranthene	0.0292	0.00500	"	0.0333	ND	87.7	30-120				
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.5	30-120				
Chrysene	0.0320	0.00500	"	0.0333	0.0237	24.9	30-120				QM-07
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120				
Fluoranthene	0.0180	0.00500	"	0.0333	0.0105	22.4	30-120				QM-07
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0324	0.00500	"	0.0333	ND	97.2	30-120				
Pyrene	0.0691	0.00500	"	0.0333	0.0546	43.4	35-142				
1-Methylnaphthalene	0.0387	0.00500	"	0.0333	0.0157	69.1	15-130				
2-Methylnaphthalene	0.0368	0.00500	"	0.0333	ND	110	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.3	40-150				
Surrogate: Fluoranthene-d10	0.0152		"	0.0333		45.7	40-150				

Matrix Spike Dup (BEL0530-MSD1)		Source: 2112324-01			Prepared: 12/23/21 Analyzed: 12/27/21						
Acenaphthene	0.0233	0.00500	mg/kg	0.0333	ND	70.0	31-137	15.7	30		
Anthracene	0.0223	0.00500	"	0.0333	ND	67.0	30-120	20.8	30		
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	0.0113	28.2	30-120	6.75	30		QM-07
Benzo (a) pyrene	0.0269	0.00500	"	0.0333	ND	80.8	30-120	3.53	30		
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.8	30-120	18.5	30		
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333	ND	80.8	30-120	4.47	30		
Chrysene	0.0268	0.00500	"	0.0333	0.0237	9.13	30-120	17.8	30		QM-07
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	14.7	30		
Fluoranthene	0.0191	0.00500	"	0.0333	0.0105	25.8	30-120	6.11	30		QM-07
Fluorene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	15.4	30		
Indeno (1,2,3-cd) pyrene	0.0268	0.00500	"	0.0333	ND	80.5	30-120	18.8	30		
Pyrene	0.0543	0.00500	"	0.0333	0.0546	NR	35-142	23.9	30		QM-07
1-Methylnaphthalene	0.0402	0.00500	"	0.0333	0.0157	73.4	15-130	3.67	50		
2-Methylnaphthalene	0.0386	0.00500	"	0.0333	ND	116	15-130	4.81	50		
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		67.0	40-150				
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0528 - EPA 3050B

Blank (BEL0528-BLK1)

Prepared: 12/22/21 Analyzed: 12/27/21

Boron ND 0.0100 mg/L

LCS (BEL0528-BS1)

Prepared: 12/22/21 Analyzed: 12/27/21

Boron 5.36 0.0100 mg/L 5.00 107 80-120

Duplicate (BEL0528-DUP1)

Source: 2112324-01

Prepared: 12/22/21 Analyzed: 12/27/21

Boron 0.163 0.0100 mg/L 0.188 14.1 20

Matrix Spike (BEL0528-MS1)

Source: 2112324-01

Prepared: 12/22/21 Analyzed: 12/27/21

Boron 5.26 0.0100 mg/L 5.00 0.188 102 75-125

Matrix Spike Dup (BEL0528-MSD1)

Source: 2112324-01

Prepared: 12/22/21 Analyzed: 12/27/21

Boron 5.38 0.0100 mg/L 5.00 0.188 104 75-125 2.16 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEL0522 - EPA 3050B

Blank (BEL0522-BLK1)

Prepared: 12/22/21 Analyzed: 12/26/21

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BEL0522-BS1)

Prepared: 12/22/21 Analyzed: 12/26/21

Arsenic	40.0	0.200	mg/kg wet	40.0	99.9	80-120
Barium	37.7	0.400	"	40.0	94.3	80-120
Cadmium	1.98	0.200	"	2.00	99.1	80-120
Copper	36.8	0.400	"	40.0	92.1	80-120
Lead	18.0	0.200	"	20.0	89.9	80-120
Nickel	36.1	0.400	"	40.0	90.4	80-120
Selenium	3.85	0.260	"	4.00	96.1	80-120
Silver	1.90	0.0200	"	2.00	95.0	80-120
Zinc	41.8	0.400	"	40.0	105	80-120

Duplicate (BEL0522-DUP1)

Source: 2111526-01

Prepared: 12/22/21 Analyzed: 12/26/21

Arsenic	0.682	0.231	mg/kg dry	0.589	14.7	20
Barium	61.5	0.462	"	56.7	8.17	20
Cadmium	0.103	0.231	"	0.0899	13.6	20
Copper	7.53	0.462	"	6.62	12.8	20
Lead	4.54	0.231	"	4.61	1.54	20
Nickel	2.91	0.462	"	2.43	17.7	20
Selenium	0.383	0.301	"	0.393	2.42	20
Silver	0.0808	0.0231	"	0.0483	50.2	20
Zinc	20.0	0.462	"	18.2	9.57	20

QR-03

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEL0522 - EPA 3050B

Matrix Spike (BEL0522-MS1)		Source: 2111526-01			Prepared: 12/22/21 Analyzed: 12/26/21					
Arsenic	47.3	0.231	mg/kg dry	46.2	0.589	101	75-125			
Barium	146	0.462	"	46.2	56.7	193	75-125			QR-03
Cadmium	2.46	0.231	"	2.31	0.0899	103	75-125			
Copper	60.2	0.462	"	46.2	6.62	116	75-125			
Lead	26.8	0.231	"	23.1	4.61	95.8	75-125			
Nickel	46.2	0.462	"	46.2	2.43	94.6	75-125			
Selenium	4.49	0.301	"	4.62	0.393	88.7	75-125			
Silver	2.18	0.0231	"	2.31	0.0483	92.2	75-125			
Zinc	78.1	0.462	"	46.2	18.2	130	75-125			QR-03

Matrix Spike Dup (BEL0522-MSD1)		Source: 2111526-01			Prepared: 12/22/21 Analyzed: 12/26/21					
Arsenic	47.0	0.231	mg/kg dry	46.2	0.589	100	75-125	0.679	25	
Barium	156	0.462	"	46.2	56.7	214	75-125	6.54	25	QR-03
Cadmium	2.38	0.231	"	2.31	0.0899	99.2	75-125	3.22	25	
Copper	50.5	0.462	"	46.2	6.62	95.0	75-125	17.4	25	
Lead	25.7	0.231	"	23.1	4.61	91.0	75-125	4.24	25	
Nickel	45.5	0.462	"	46.2	2.43	93.1	75-125	1.51	25	
Selenium	4.61	0.301	"	4.62	0.393	91.2	75-125	2.56	25	
Silver	2.12	0.0231	"	2.31	0.0483	89.8	75-125	2.58	25	
Zinc	74.6	0.462	"	46.2	18.2	122	75-125	4.66	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEL0571 - 3060A Mod

Blank (BEL0571-BLK1)

Prepared & Analyzed: 12/27/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEL0571-BS1)

Prepared & Analyzed: 12/27/21

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BEL0571-DUP1)

Source: 2112325-02

Prepared & Analyzed: 12/27/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEL0571-MS1)

Source: 2112325-02

Prepared & Analyzed: 12/27/21

Chromium, Hexavalent 30.8 0.30 mg/kg dry 26.3 ND 117 75-125

Matrix Spike Dup (BEL0571-MSD1)

Source: 2112325-02

Prepared & Analyzed: 12/27/21

Chromium, Hexavalent 27.9 0.30 mg/kg dry 26.3 ND 106 75-125 9.66 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0584 - General Preparation

Blank (BEL0584-BLK1)

Prepared: 12/27/21 Analyzed: 12/28/21

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

LCS (BEL0584-BS1)

Prepared: 12/27/21 Analyzed: 12/28/21

Calcium	4.88	0.0500	mg/L wet	5.00	97.6	70-130
Magnesium	4.94	0.0500	"	5.00	98.9	70-130
Sodium	5.01	0.0500	"	5.00	100	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0558 - General Preparation

Duplicate (BEL0558-DUP1)

Source: 2112335-01

Prepared & Analyzed: 12/27/21

% Solids	81.7	%		82.2		0.524	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X
Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0608 - General Preparation

Blank (BEL0608-BLK1)

Prepared & Analyzed: 12/28/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEL0608-BS1)

Prepared & Analyzed: 12/28/21

Specific Conductance (EC) 0.143 0.0100 mmhos/cm 0.150 95.2 95-105

Duplicate (BEL0608-DUP1)

Source: 2112333-04

Prepared & Analyzed: 12/28/21

Specific Conductance (EC) 0.222 0.0100 mmhos/cm 0.230 3.37 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

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 BEL0607 - General Preparation

LCS (BEL0607-BS1)

Prepared & Analyzed: 12/28/21

pH	9.09	pH Units	9.18	99.0	95-105
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Duplicate (BEL0607-DUP1)

Source: 2112333-04

Prepared & Analyzed: 12/28/21

pH	7.65	pH Units	7.66	0.131	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: COGCC - Nordman Trust 42-20X

Project Number: C021-084
Project Manager: Paul Henchan

Reported:
01/03/22 13:50

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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