

FREMONT ENVIRONMENTAL INC.

April 10, 2022

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Facility Closure Data Submittal**
Cox PMC 8-6
API # 05-123-14174
SENW Sec. 8, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-018
Facility #327111, Remediation #21026

Dear Mr. Evans:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure tasks for the Noble Energy Inc. (Noble) Cox PMC 8-6 wellhead, tank battery and flowline. Impacted soil was encountered during the produced water vault removal. Details of the facility removal activities are documented in the attached Closure Report. 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:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Reports

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

Tank Battery Closure Checklist

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

Additional attachments (optional):	X	Pit Closure	X	Wellhead Closure	X	Flowline Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Cox PMC 8-6, 327111		Date: 3/21/2022						Remediation Project #: 21024
Associated Wells: 05-123-14174		Age of Site: Spud 1989						Number of Photos Attached: 10
Location: (GPS coordinates of southeaster berm) 40.33383/-104.57705								Estimated Facility Size (acres): 0.1
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Facility appeared to be in good condition prior to abandonment								
USCS Soil Type: Sandy Clay					Estimated Depth to Groundwater: Unknown, estimate <20 feet			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Limited soil staining at bottom of produced water vault								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Tanks								
Tank Contents	Condensate							
Size (barrels)	300 bbls							
Age	1989							
Construction Material	Steel							
Tank type (AST/DRU, etc.)	AST							
Visual Integrity of Tank	Good							
Condition of tank footprint	Good							
PID Readings	0 ppm							
Soil impacts present at valves or hatches?	None							
PID Readings	0 ppm							
Sample taken? Location/ Sample ID#	Yes, AST Floor Y203522-07							
Photo Number(s)	#1							
Other observations regarding tanks: None								
Separators								
Separator size	10 bbls							
Vertical or Horizontal	Vertical							
Age	1989							
Soil impacts present at hatches?	None							
PID Readings	2 ppm							
Sample taken? Location/ Sample ID#	Yes, at surface and 4 ft Y203522-5,6							
Photo Number(s)	#4							
Other observations regarding separators No impacts								
Third Party Equipment								
Type								
Age								

Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
Other Facility Equipment														
Equipment type	ECD													
Equipment Condition	Good													
Age	Unknown													
Soil impacts observed during	None													
PID Readings	1 ppm													
Sample taken?	No													
Photo Number(s)	None													
Other observations regarding other facility or third party equipment:														
None														
Summary														
Was impacted soil identified?														
No X Yes - less than 10 cubic yards Yes - more than 10 cubic yards														
Total number of samples field screened: 15					Total number of samples collected: 15									
Highest PID Reading:					Total number of samples submitted to lab for analysis: 7									
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? yes														
Was groundwater encountered during the investigation?														
X 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:														

Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure	X	Wellhead Closure	X	Flowline Closure	X	Tank Battery Closure
Site Name & COGCC Facility Number: Cox PMC8-6, 327111		Date: 3/21/2022						Remediation Project #: 21024
Associated Wells: 05-123-14174		Age of Site: Spud 1989						Number of Photos Attached: 10
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.33374/-104.57703								Estimated Facility Size (acres): 0.1
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no observed issues								
USCS Soil Type: Sandy clay					Estimated Depth to Groundwater: unknown, estimated <20 ft			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Limited impacts at bottom of produced water vault								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Buried or Partially Buried Vessels								
Tank Contents	Produced water							
Size (barrels)	30 bbls							
Age	1989							
Construction Material	Concrete							
Visual Integrity of Tank	Good cond							
Condition of tank	soil staining							
PID Readings	max 55 ppm							
Condition of	Good							
PID Readings	0 ppm							
Sample taken?	yes, at S wall and							
Location/Sample ID#	floor							
Photo Number(s)	YY203522-9,10 #1, 2							
Other observations regarding partially buried vessels: None								
Summary								
Was impacted soil identified? No X Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 15					Total number of samples collected: 15			
Highest PID Reading: 55 ppm					Total number of samples submitted to lab for analysis: 7			
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? Yes								
Was groundwater encountered during the investigation? X 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:								

Flowline Closure Checklist

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

Additional Attachments:	X	Tank Battery Closure	X	Wellhead Closure		Pit Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Cox PMC8-6		Date: 3/21/2022					Remediation Project #: 21026	
Associated Wells: 05-123-14174		Age of Site: Spud 1989					Number of Photos Attached: 10	
Starting point: (GPS coordinates and descriptions) 40.32920/-104.57687								
End point: (GPS coordinates and descriptions) 40.33358/-104.57697								
USCS Soil Type: Sandy Clay					Estimated Depth to Groundwater: Unknown, estimate <20 ft			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Flowlines								
Flowline type	2" steel							
Depth	4 ft							
Age	1989							
Length	1593 ft							
Construction Material	Steel							
Were flowlines pulled?	yes							
Visual Integrity of lines	Good cond							
Visual impacts if trenched	None							
PID Readings if trenched	max 2 ppm							
Sample taken? Location/Sample ID#	No samples							
Photo Number(s)	#7-10							
Other observations regarding on location flowlines: None								
Summary								
Was impacted soil identified? X No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 8					Total number of samples collected: 8			
Highest PID Reading: 2 ppm					Total number of samples submitted to lab for analysis: 0			
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? No								
Was groundwater encountered during the investigation? X 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:								

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 VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COX 8-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-018

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)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
N Wall WH 4 Ft	4	3/18/2022	Wellhead wall	<0.002	<0.002	<0.002	0.0135	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Floor WH 6 Ft	6	3/18/2022	Wellhead Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Separator 4 Ft	4	3/21/2022	Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Separator S, 0.5 Ft	0.5	3/21/2022	Wall	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
AST 0.5 Ft	0.5	3/21/2022	Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
PWV S Wall 4 Ft	4	3/21/2022	Wall	<0.002	<0.002	<0.002	<0.002	0.00672	0.00244	0.00553	0.257	<25.0	<100
PWV Floor 6 Ft	6	3/21/2022	Floor	<0.002	<0.002	0.00232	0.0239	0.134	0.0163	0.00553	1.51	63.8	126
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)

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COX 8-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-018

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)	Pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)
N Wall WH 4 Ft	4	3/18/2022	Wellhead wall	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Floor WH 6 Ft	6	3/18/2022	Wellhead Floor	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000525	0.000833	<0.00067	<0.00067	<0.00067	0.000629	<0.00067	>00037	<0.00067
Separator 4 Ft	4	3/21/2022	Floor	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Separator S, 0.5 Ft	0.5	3/21/2022	Wall	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
AST 0.5 Ft	0.5	3/21/2022	Floor	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000897	<0.00067	<0.00067
PWV S Wall 4 Ft	4	3/21/2022	Wall	0.00219	<0.00067	<0.00067	0.000798	<0.00067	0.00125	0.00134	<0.00067	0.00103	0.00401	0.000945	0.00321	0.0158	0.0208
PWV Floor 6 Ft	6	3/21/2022	Floor	0.0097	<0.00067	<0.00067	<0.00067	<0.00067	0.000658	0.00262	0.00123	0.000544	0.019	<0.00067	0.00336	0.0256	0.0205
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	1.1	11	0.11	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	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019

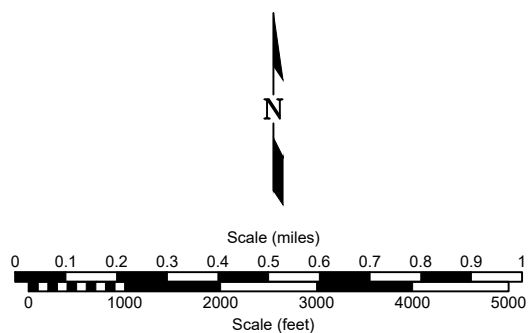
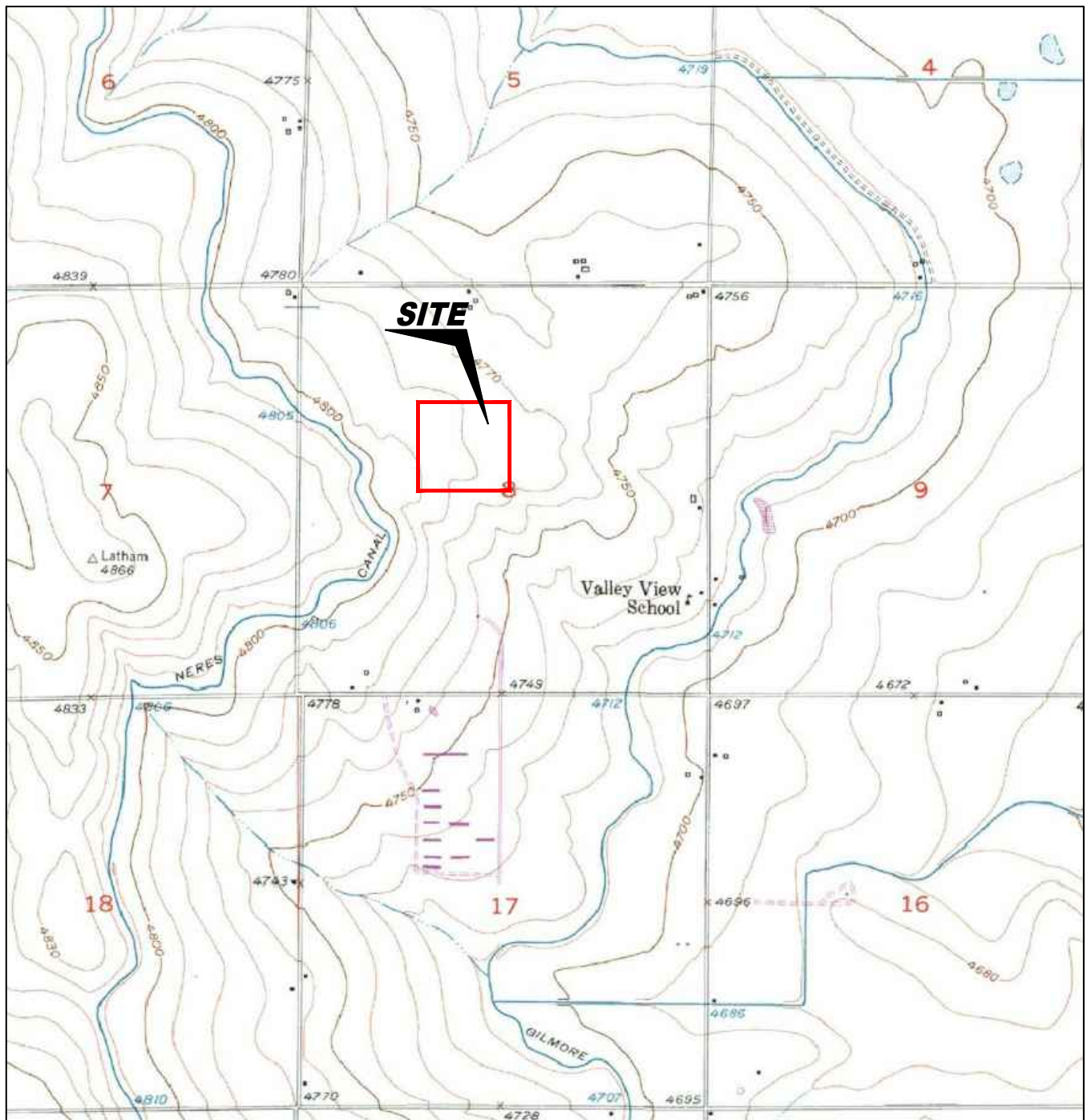
Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COX 8-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-018

SAMPLE LOCATION	DEPTH ft	DATE SAMPLED	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
N Wall WH 4 Ft	4	3/18/2022	1.02	8.02	2.27	0.499
Floor WH 6 Ft	6	3/18/2022	0.905	7.89	3.20	0.437
Separator 4 Ft	4	3/21/2022	0.608	7.98	2.50	0.336
Separator S, 0.5 Ft	0.5	3/21/2022	3.57	7.66	5.16	0.259
AST 0.5 Ft	0.5	3/21/2022	0.338	8.06	0.767	<0.0989
PWV S Wall 4 Ft	4	3/21/2022	0.650	7.71	2.05	0.645
PWV Floor 6 Ft	6	3/21/2022	0.695	7.56	2.93	0.826
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc.
Cox PMC 8-6, UWRWE-A1823-ABN
SENW Sec. 8, T4N, R64W, 6th PM
Weld County, Colorado

Project #
C022-018

Prepared By

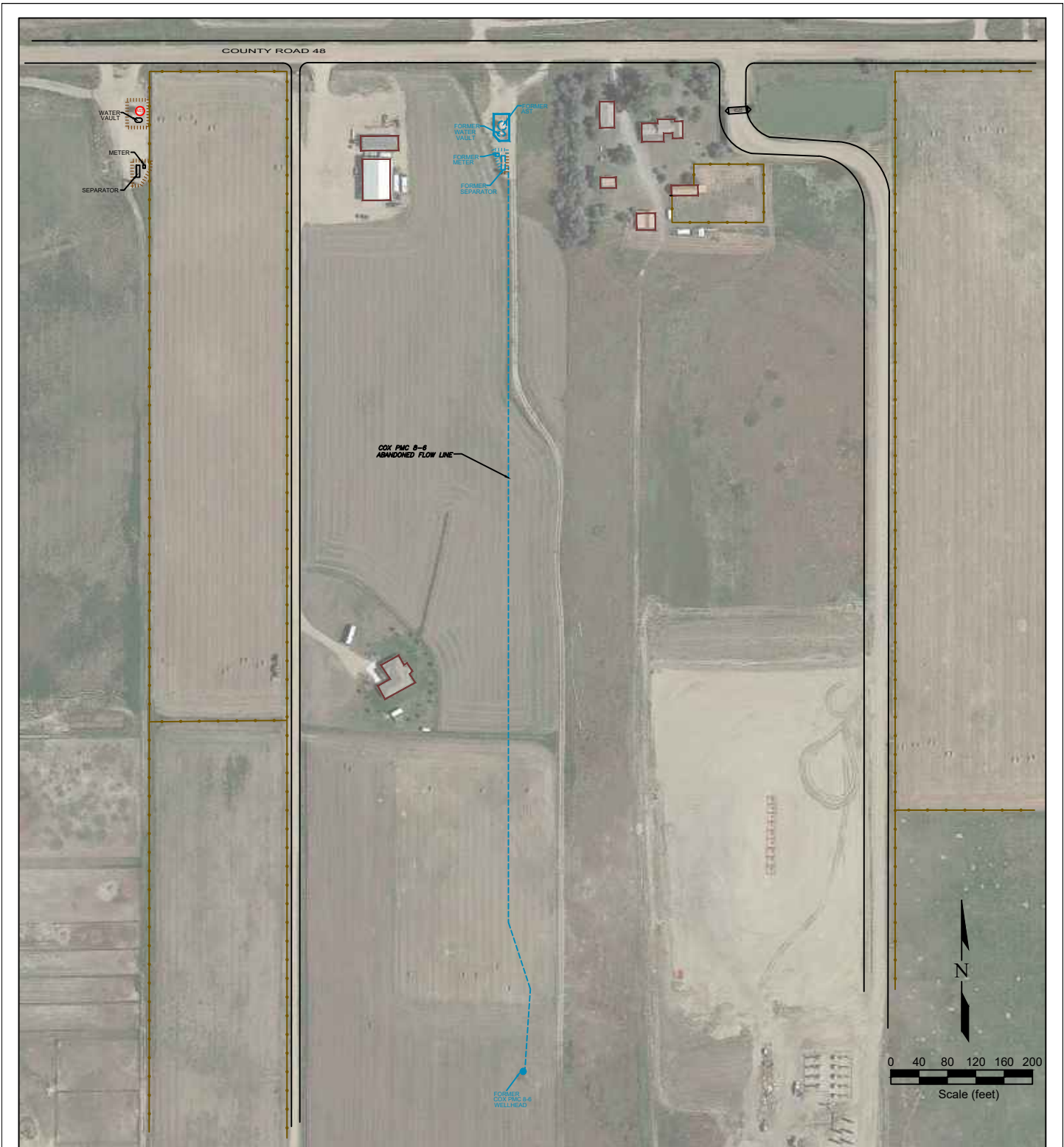
Drawn By
TA

Date
4/12/22

Reviewed by
PH

Filename
22018T





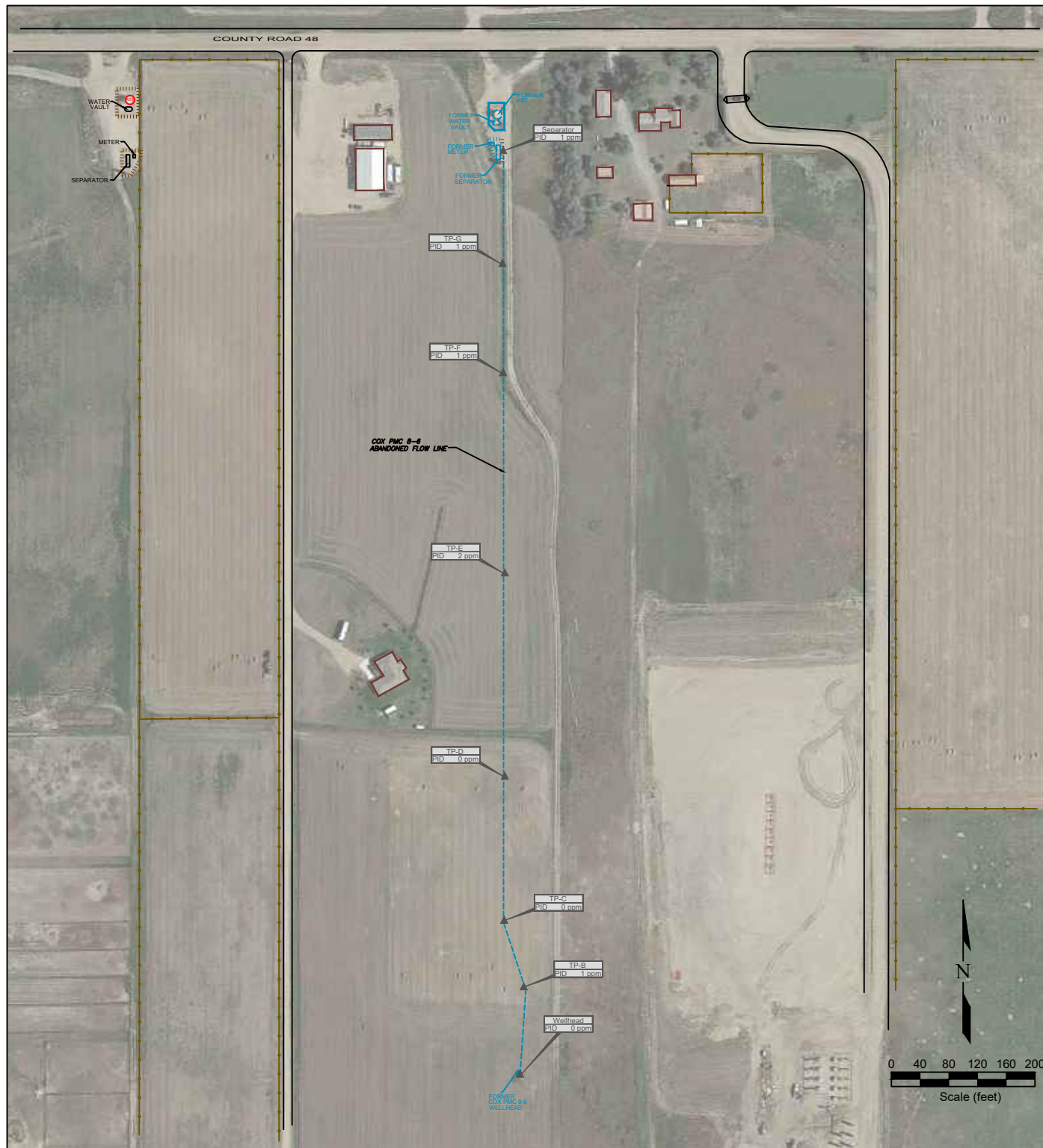
LEGEND

- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

Figure 2
SITE MAP

Noble Energy, Inc.
Cox PMC 8-6, UWRWE-A1823-ABN
 SENW Sec. 8, T4N, R64W, 6th PM
 Weld County, Colorado

Project No. C022-018	API #	Facility # TA	
Date 4/12/22	Reviewed By PH	Filename 22018Q	



LEGEND

● WELLHEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
▲ PID LOCATION	BUILDING	BUILDING	FLOW LINE
			FENCE LINE
EC10 PID 0.0 ppm PHOTO IONIZATION DETECTION READING (ppm)			

ppm = parts per million
PID = photo ionization detection

Figure 4

PID READINGS LOCATIONS MAP

Noble Energy, Inc.
Cox PMC 8-6, UWRWE-A1823-ABN
 SENW Sec. 8, T4N, R64W, 6th PM
 Weld County, Colorado

Project No. C022-018	API #	Facility # TA
Date 4/12/22	Reviewed By PH	Filename 22018Q







#1- Produced Water Vault and AST Prior to Removal (Looking Northwest)



#2 – Looking South at Excavation



#3 - Looking Northwest at Excavation



#4 – Former Separator Location



#5 – Cox PMC 8-6 Well



#6 – Looking Northeast at Wellhead Cut and Cap Excavation



#7 – Looking Northwest at Flow Line and Wellhead



#8 – Pulling Flowline (looking southeast)



#9 – Preparing to Remove flowline



#10 – Inspection of 2" Steel Flowline; Light Corrosion, No Failures



April 04, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - Cox 8-6

Project Number - C022-018

Attached are your analytical results for Noble - Cox 8-6 received by Origins Laboratory, Inc. March 22, 2022. This project is associated with Origins project number Y203522-01.

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

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

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

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

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

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



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

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 4FT	Y203522-01	Soil	March 18, 2022 0:00	03/22/2022 12:45
Floor 6FT	Y203522-02	Soil	March 18, 2022 0:00	03/22/2022 12:45
Separator 4FT	Y203522-05	Soil	March 21, 2022 0:00	03/22/2022 12:45
Separator S, 0.5F	Y203522-06	Soil	March 21, 2022 0:00	03/22/2022 12:45
AST 0.5FT	Y203522-07	Soil	March 21, 2022 0:00	03/22/2022 12:45
PWV, S. Wall 4FT	Y203522-08	Soil	March 21, 2022 0:00	03/22/2022 12:45
PWV, Floor, 6FT	Y203522-09	Soil	March 21, 2022 0:00	03/22/2022 12:45

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Paul Henahan
Project Number: C022-018
Project: Noble - Cox 8-6

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y203522

page 1 of 1

Client: Fremont Environmental Inc.
Address:
Telephone Number:
Email Address:

Project Manager: Henahan
Project Name: Noble - Cox 8-6
Project Number: C022-018
Samples Collected By: PVH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
N WALL 4 FT	3/18/22		2	Unpreserved	Soil	GRTEXN+TMMS	1
FLOOR 6 FT			2	HCl	Soil	GRTEXN+TMMS	2
Bq-1 3 FT			1	HNO ₃	Soil	GRTEXN+TMMS	3
Bq-1 6 FT			1	Other	Soil	GRTEXN+TMMS	4
SEPARATOR 4 FT	3/21/22		2	Other	Soil	GRTEXN+TMMS	5
SEPARATOR 0.5 FT			2	Other	Soil	GRTEXN+TMMS	6
AST 0.5 FT			2	Other	Soil	GRTEXN+TMMS	7
PWY, SWAL 4 FT			2	Other	Soil	GRTEXN+TMMS	8
PWY, FLOOR 6 FT			2	Other	Soil	GRTEXN+TMMS	9
				Other	Soil	GRTEXN+TMMS	10
Relinquished By: PVH/FE	Date: 3/21/22	Time:		Received By: [Signature]	Date: 3/22/22	Time: 1245	Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☒ Standard
Relinquished By:	Date:	Time:		Received By:	Date:	Time:	

4.9

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203522

Client: Fremont

Client Project ID: Cox 8-6

Checklist Completed by: JS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/22/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.9 °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	☒	☐	☐	
Is there ice present (document if blue ice is used)?	☒	☐	☐	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	☐	☒	☐	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	☐	☒	☐	
Were all samples received intact ⁽¹⁾ ?	☒	☐	☐	
Was adequate sample volume provided ⁽¹⁾ ?	☒	☐	☐	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	☐	☒	☐	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	☐	☒	☐	No sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	☒	☐	☐	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	☒	☐	☐	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	☒	☐	☐	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	☒	☐	☐	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	☐	☒	☐	
Additional Comments (if any):				

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

Reviewed by: JS (Project Manager)

3-23-22
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

N Wall 4FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.499	0.00621	0.0997	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C2417	03/24/2022	03/27/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0135		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.3 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

N Wall 4FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.7 %	70-130	B2C24 17	03/24/2022	03/27/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	1.17	0.823	"	"	"	"	"
Sodium	2.91	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

N Wall 4FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y203522-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	76.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	66.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.02	pH Units	1	B2C2315	03/23/2022	03/24/2022
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SAR by 20B Saturated Paste

SAR	2.27	SAR	1	B2C2311	03/23/2022	03/24/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.02	0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Floor 6FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.437	0.00619	0.0993	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Floor 6FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.7 %	70-130	B2C24 17	03/24/2022	03/28/2022
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.02	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.77	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00037	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000525	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000833	0.000624	0.00067	"	"	"	"	"	B
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Floor 6FT

3/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y203522-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022	
Indeno(1,2,3-cd)pyrene	0.000629	0.000627	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	74.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B2C2315	03/23/2022	03/24/2022	
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SAR by 20B Saturated Paste

SAR	3.20			SAR	1	B2C2311	03/23/2022	03/24/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.905		0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.336	0.00616	0.0988	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.1 %	70-130	B2C24 17	03/24/2022	03/28/2022
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.88	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	0.848	0.823	"	"	"	"	"
Sodium	2.92	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y203522-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	84.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B2C2315	03/23/2022	03/24/2022
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SAR by 20B Saturated Paste

SAR	2.50	SAR	1	B2C2311	03/23/2022	03/24/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.608	0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator S. 0.5F

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.259	0.00621	0.0996	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator S. 0.5F

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	87.6 %	70-130	B2C24 17	03/24/2022	03/28/2022
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	14.9	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	4.89	0.823	"	"	"	"	"
Sodium	16.2	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Separator S. 0.5F

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203522-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	74.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	89.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	63.4 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.66			pH Units	1	B2C2315	03/23/2022	03/24/2022
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SAR by 20B Saturated Paste

SAR	5.16			SAR	1	B2C2311	03/23/2022	03/24/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.57		0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

AST 0.5FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203522-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0593	0.00616	0.0989	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.2 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

AST 0.5FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203522-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.2 %	70-130	B2C24 17	03/24/2022	03/28/2022
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.64	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.840	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

AST 0.5FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203522-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.000897	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	74.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	81.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	61.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.06			pH Units	1	B2C2315	03/23/2022	03/24/2022
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SAR by 20B Saturated Paste

SAR	0.767			SAR	1	B2C2311	03/23/2022	03/24/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.338		0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. S. Wall 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.645	0.00627	0.101	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00672		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	
1,3,5-Trimethylbenzene	0.00244		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.257		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. S. Wall 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y203522-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 B2C24 17 03/24/2022 03/28/2022

Metals by Saturated Paste by EPA 6010

Calcium	2.30	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	1.52	0.823	"	"	"	"	"
Sodium	2.83	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0158	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	0.0208	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00219	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00125	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000798	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00134	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00103	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00401	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000945	0.000627	0.00067	"	"	"	"	"

B

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. S. Wall 4FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y203522-08 (Soil)

PAH by 8270D SIM

Naphthalene	0.00553	0.000484	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022	
Pyrene	0.00321	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B2C2315	03/23/2022	03/24/2022	
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SAR by 20B Saturated Paste

SAR	2.05			SAR	1	B2C2311	03/23/2022	03/24/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.650		0.00500	mmhos/cm	1	B2C2313	03/23/2022	03/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. Floor. 6FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203522-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.826	0.00613	0.0983	mg/kg	1	B2C2309	03/23/2022	03/24/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	63.8		25.0	mg/kg	1	B2C2304	03/23/2022	03/27/2022	
Residual Range Organics (C28-C40)	126		100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.134		0.00200	mg/kg	1	B2C2417	03/24/2022	03/28/2022	
1,3,5-Trimethylbenzene	0.0163		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00232		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0239		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.51		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. Floor. 6FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203522-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.01	0.499	meq/L	10	[CALC]	03/23/2022	03/24/2022
Magnesium	1.26	0.823	"	"	"	"	"
Sodium	3.74	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0256	0.000364	0.00067	mg/Kg	1	L607268	03/28/2022	03/29/2022
2-Methylnaphthalene	0.0205	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.0097	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000564	0.000334	0.00067	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000658	0.000468	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00262	0.000624	0.00067	"	"	"	"	B
Dibenz(a,h)anthracene	0.00123	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000544	0.000394	0.00067	"	"	"	"	J
Fluorene	0.019	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.00553	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00336	0.000643	0.00067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	49.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	45.6 %		33-122			"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PWV. Floor. 6FT

3/21/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203522-09 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	39.9 %	29-110	L6072 68	03/28/2022	03/29/2022
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pH in Soil by 9045D

pH	7.56	pH Units	1	B2C2316	03/23/2022	03/24/2022
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SAR by 20B Saturated Paste

SAR	2.93	SAR	1	B2C2312	03/23/2022	03/24/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.695	0.00500	mmhos/cm	1	B2C2314	03/23/2022	03/24/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2304 - EPA 3580										
Blank (B2C2304-BLK1)					Prepared: 03/23/2022 Analyzed: 03/27/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C2304 - EPA 3580

LCS (B2C2304-BS1)

Prepared: 03/23/2022 Analyzed: 03/27/2022

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000		95.6	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C2304 - EPA 3580

Matrix Spike (B2C2304-MS1)		Source: Y203514-01			Prepared: 03/23/2022 Analyzed: 03/27/2022					
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2304 - EPA 3580										
Matrix Spike Dup (B2C2304-MSD1)		Source: Y203514-01			Prepared: 03/23/2022 Analyzed: 03/27/2022					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130	3.15	35	
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130	7.35	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2417 - EPA 5030 (soil)										
Blank (B2C2417-BLK1)					Prepared: 03/24/2022 Analyzed: 03/27/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2417 - EPA 5030 (soil)										
LCS (B2C2417-BS1)					Prepared: 03/24/2022 Analyzed: 03/27/2022					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.110	0.0100	"	0.100		110	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Origins Laboratory, Inc.



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Project: Noble - Cox 8-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C2417 - EPA 5030 (soil)

Matrix Spike (B2C2417-MS1)		Source: Y203493-01			Prepared: 03/24/2022 Analyzed: 03/27/2022					
1,2,4-Trimethylbenzene	0.0985	0.00200	mg/kg	0.100	ND	98.5	70-130			
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130			
Toluene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
o-Xylene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

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Project: Noble - Cox 8-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2417 - EPA 5030 (soil)										
Matrix Spike Dup (B2C2417-MSD1)		Source: Y203493-01			Prepared: 03/24/2022 Analyzed: 03/27/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	2.63	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	1.47	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.451	20	
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130	1.03	20	
Naphthalene	0.110	0.0100	"	0.100	ND	110	70-130	7.72	20	
Toluene	0.0946	0.00200	"	0.100	ND	94.6	70-130	0.0846	20	
o-Xylene	0.0934	0.00200	"	0.100	ND	93.4	70-130	0.709	20	
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.8	70-130	1.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C2309 - Default Prep Metals

Blank (B2C2309-BLK1)

Prepared: 03/23/2022 Analyzed: 03/24/2022

Boron ND 0.100 mg/kg

Duplicate (B2C2309-DUP1)

Source: Y203507-06

Prepared: 03/23/2022 Analyzed: 03/24/2022

Boron 0.0804 0.101 mg/kg 0.0789 1.89 50

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Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C2313 - NO PREP										
Blank (B2C2313-BLK1)					Prepared: 03/23/2022 Analyzed: 03/24/2022					
Specific Conductance (EC)	0.00100	0.00500	mmhos/cm							
Duplicate (B2C2313-DUP1)					Source: Y203506-12		Prepared: 03/23/2022 Analyzed: 03/24/2022			
Specific Conductance (EC)	0.329	0.00500	mmhos/cm		0.323			1.87	25	
Batch B2C2314 - NO PREP										
Blank (B2C2314-BLK1)					Prepared: 03/23/2022 Analyzed: 03/24/2022					
Specific Conductance (EC)	0.000900	0.00500	mmhos/cm							
Duplicate (B2C2314-DUP1)					Source: Y203522-09		Prepared: 03/23/2022 Analyzed: 03/24/2022			
Specific Conductance (EC)	0.759	0.00500	mmhos/cm		0.695			8.77	25	
Batch B2C2315 - NO PREP										
Duplicate (B2C2315-DUP1)					Source: Y203506-12		Prepared: 03/23/2022 Analyzed: 03/24/2022			
pH	7.69		pH Units		7.80			1.42	25	
Batch B2C2316 - NO PREP										
Duplicate (B2C2316-DUP1)					Source: Y203522-09		Prepared: 03/23/2022 Analyzed: 03/24/2022			
pH	7.47		pH Units		7.56			1.20	25	

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Wellington CO 80549

Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L607268 - 3550B

MSD (L 94495-MSD-L607268)		Source: Y203522-01			Prepared: 03/28/2022 Analyzed: 03/29/2022					
Indeno(1,2,3-cd)pyrene	0.12	0.000627	mg/Kg	0.164	<0.000627	73.1	30-130	18.8	30	
Pyrene	0.13	0.000643	"	0.164	<0.000643	79.2	30-130	7.4	30	
Naphthalene	0.111	0.000484	"	0.164	<0.000484	67.6	30-130	5.2	30	
Fluorene	0.124	0.000286	"	0.164	<0.000286	75.6	30-130	5.4	30	
Fluoranthene	0.13	0.000394	"	0.164	<0.000394	79.2	30-130	8.8	30	
Dibenz(a,h)anthracene	0.129	0.000614	"	0.164	<0.000614	78.6	30-130	18.3	30	
2-Methylnaphthalene	0.118	0.000645	"	0.164	<0.000645	71.9	30-130	3.3	30	
Chrysene	0.116	0.000624	"	0.164	<0.000624	70.7	30-130	9	30	
Acenaphthene	0.111	0.000304	"	0.164	<0.000304	67.6	30-130	4.4	30	
Anthracene	0.13	0.000334	"	0.164	<0.000334	79.2	30-130	5.9	30	
Benzo(a)anthracene	0.124	0.000493	"	0.164	<0.000493	75.6	30-130	9.9	30	
Benzo(a)pyrene	0.118	0.000468	"	0.164	<0.000468	71.9	30-130	11.9	30	
Benzo(b)fluoranthene	0.111	0.000585	"	0.164	<0.000585	67.6	30-130	16.5	30	
Benzo(k)fluoranthene	0.0907	0.000437	"	0.164	<0.000437	55.3	30-130	21	30	
1-Methylnaphthalene	0.117	0.000364	"	0.164	<0.000364	71.3	30-130	5	30	
Surrogate: Nitrobenzene-d5	58.9		"	0.329	217	58.9	29-110			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.329	249	71.4	33-115			
Surrogate: 4-Terphenyl-d14	82.6		"	0.329	268	82.6	33-122			

MS (L 94495-MS-L607268)		Source: Y203522-01			Prepared: 03/28/2022 Analyzed: 03/29/2022					
Anthracene	0.138	0.000334	mg/Kg	0.166	<0.000334	83.1	30-130			
2-Methylnaphthalene	0.122	0.000645	"	0.166	<0.000645	73.4	30-130			
Fluoranthene	0.142	0.000394	"	0.166	<0.000394	85.5	30-130			
Benzo(a)anthracene	0.137	0.000493	"	0.166	<0.000493	82.5	30-130			
Benzo(a)pyrene	0.133	0.000468	"	0.166	<0.000468	80.1	30-130			
Benzo(b)fluoranthene	0.131	0.000585	"	0.166	<0.000585	78.9	30-130			
Benzo(k)fluoranthene	0.112	0.000437	"	0.166	<0.000437	67.4	30-130			

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Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L607268 - 3550B

MS (L 94495-MS-L607268)		Source: Y203522-01			Prepared: 03/28/2022 Analyzed: 03/29/2022					
Chrysene	0.127	0.000624	mg/Kg	0.166	<0.000624	76.5	30-130			
Dibenz(a,h)anthracene	0.155	0.000614	"	0.166	<0.000614	93.3	30-130			
Fluorene	0.131	0.000286	"	0.166	<0.000286	78.9	30-130			
Indeno(1,2,3-cd)pyrene	0.145	0.000627	"	0.166	<0.000627	87.3	30-130			
Naphthalene	0.117	0.000484	"	0.166	<0.000484	70.4	30-130			
1-Methylnaphthalene	0.123	0.000364	"	0.166	<0.000364	74	30-130			
Acenaphthene	0.116	0.000304	"	0.166	<0.000304	69.8	30-130			
Pyrene	0.14	0.000643	"	0.166	<0.000643	84.3	30-130			
Surrogate: Nitrobenzene-d5	61		"	0.331	217	61	29-110			
Surrogate: 4-Terphenyl-d14	87.3		"	0.331	268	87.3	33-122			
Surrogate: 2-Fluorobiphenyl	73.4		"	0.331	249	73.4	33-115			

LCS (LCS-L607268)

Prepared: 03/28/2022 Analyzed: 03/29/2022

Fluoranthene	0.145	0.000394	mg/Kg	0.167		86.8	30-130
1-Methylnaphthalene	0.133	0.000364	"	0.167		79.6	30-130
Pyrene	0.145	0.000643	"	0.167		86.8	30-130
Naphthalene	0.13	0.000484	"	0.167		77.8	30-130
Fluorene	0.142	0.000286	"	0.167		85	30-130
Dibenz(a,h)anthracene	0.147	0.000614	"	0.167		88	30-130
Chrysene	0.132	0.000624	"	0.167		79	30-130
Benzo(k)fluoranthene	0.107	0.000437	"	0.167		64	30-130
2-Methylnaphthalene	0.134	0.000645	"	0.167		80.2	30-130
Indeno(1,2,3-cd)pyrene	0.134	0.000627	"	0.167		80.2	30-130
Benzo(b)fluoranthene	0.133	0.000585	"	0.167		79.6	30-130
Acenaphthene	0.125	0.000304	"	0.167		74.8	30-130
Anthracene	0.147	0.000334	"	0.167		88	30-130
Benzo(a)anthracene	0.141	0.000493	"	0.167		84.4	30-130

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Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L607268 - 3550B										
LCS (LCS-L607268)					Prepared: 03/28/2022 Analyzed: 03/29/2022					
Benzo(a)pyrene	0.135	0.000468	mg/Kg	0.167		80.8	30-130			
Surrogate: Nitrobenzene-d5	58.5		"	0.333		58.5	29-110			
Surrogate: 2-Fluorobiphenyl	78.9		"	0.333		78.9	33-115			
Surrogate: 4-Terphenyl-d14	84.6		"	0.333		84.6	33-122			
LRB (LRB-L607268)					Prepared: 03/28/2022 Analyzed: 03/29/2022					
Chrysene	0.00191	0.00067	mg/Kg				-			*
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333		68.7	33-122			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			

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Paul Henehan
Project Number: C022-018
Project: Noble - Cox 8-6

Notes and Definitions

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- B Analyte detected in associated method blank.
- * QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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