

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. Henehan, P.E.
Senior Consultant

Attachments:

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

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
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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/DPV, etc.)	AST							
Visual Integrity of Tank	Good							
Condition of tank footings	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 valves or 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								

<i>Third Party Removal Date</i>									
<i>Sample taken? Location/ Sample</i>									
<i>PID Readings</i>									
<i>Photo Number(s)</i>									
Other Facility Equipment									
<i>Equipment type</i>	ECD								
<i>Equipment Condition</i>	Good								
<i>Age</i>	Unknown								
<i>Soil impacts</i>	None								
<i>PID Readings</i>	1 ppm								
<i>Sample taken? Location/ Sample</i>	No								
<i>Photo Number(s)</i>	None								
<i>Other observations regarding other facility or third party equipment:</i>									
None									
Summary									
<i>Was impacted soil identified?</i>									
No X Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
<i>Total number of samples field screened:</i> 15					<i>Total number of samples collected:</i> 15				
<i>Highest PID Reading:</i>					<i>Total number of samples submitted to lab for analysis:</i> 7				
<i>If more than 10 cubic yards of impacted soil were observed:</i>									
<i>Vertical extent:</i>					<i>Estimated spill volume:</i>				
<i>Lateral extent:</i>					<i>Volume of soil removed:</i>				
<i>Is additional investigation required?</i> yes									
<i>Was groundwater encountered during the investigation?</i>									
X No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
<i>Measured depth to groundwater:</i>					<i>Was remedial groundwater removal conducted?</i> Yes No				
<i>Date Groundwater was encountered:</i>					<i>Commencement date of removal:</i>				
<i>Sheen on groundwater?</i> Yes No					<i>Volume of groundwater removed prior to sampling:</i>				
<i>Free product observed?</i> Yes No					<i>Volume of groundwater removed post sampling:</i>				
<i>Total number of samples collected:</i>					<i>Total Volume of groundwater removed:</i>				
<i>Total number of samples submitted to lab for analysis:</i>									

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 contents	soil staining								
PID Readings	max 55 ppm								
Condition of Access Line	Good								
PID Readings	0 ppm								
Sample taken? Location/Sample ID#	yes, at S wall and 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? <div style="display: flex; justify-content: space-around;"> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </div>									
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? <div style="display: flex; justify-content: space-around;"> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>									
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

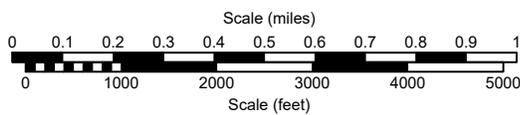
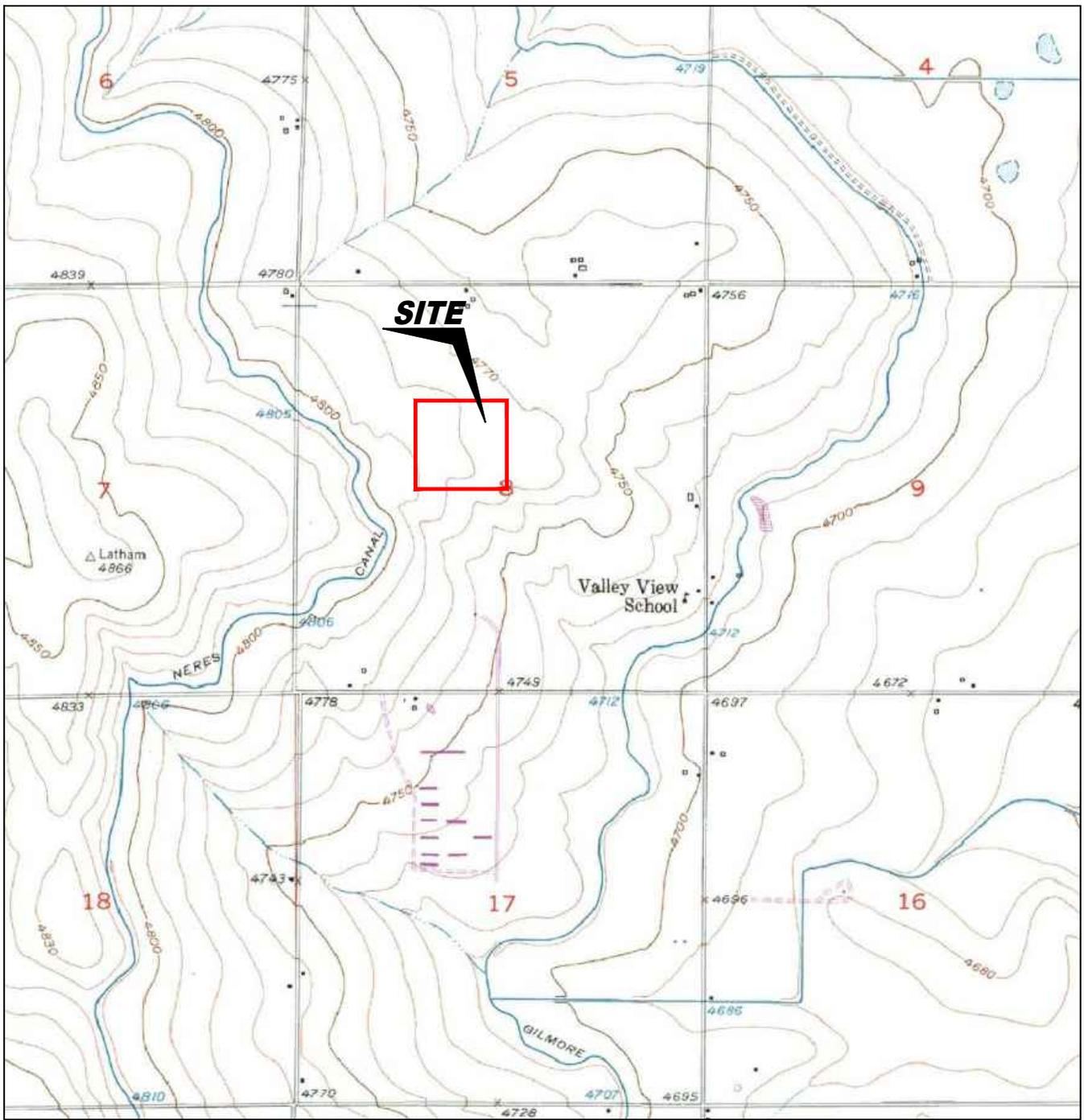
Bold faced values exceed the COGCC Table 915-1 concentrations

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

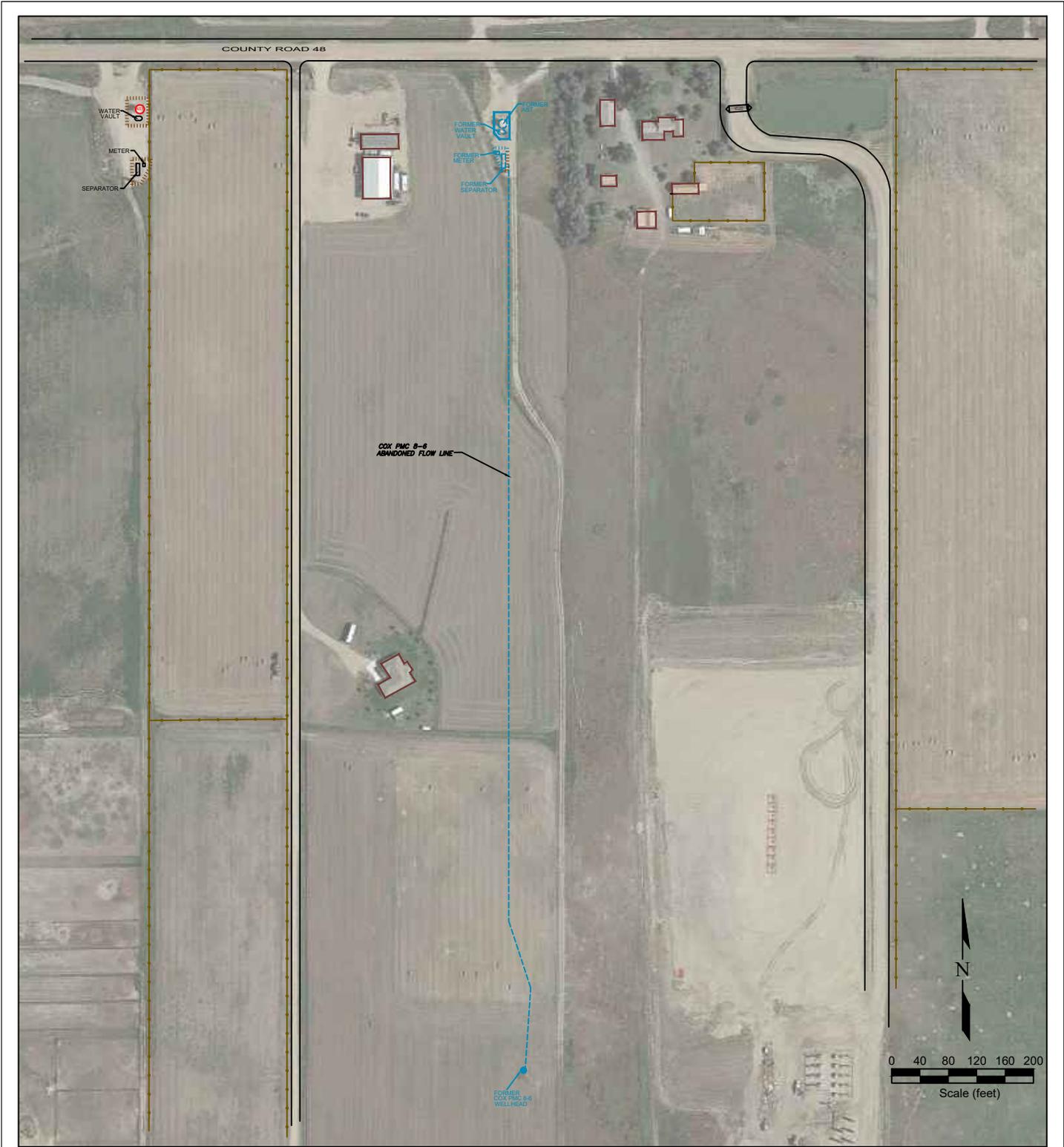


USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc.
Cox PMC 8-6, UWRWE-A1823-ABN
 SENW Sec. 8, T4N, R6W, 6th PM
 Weld County, Colorado

Project # C022-018	Prepared By	Drawn By TA	
Date 4/12/22	Reviewed by PH	Filename 22018T	



LEGEND

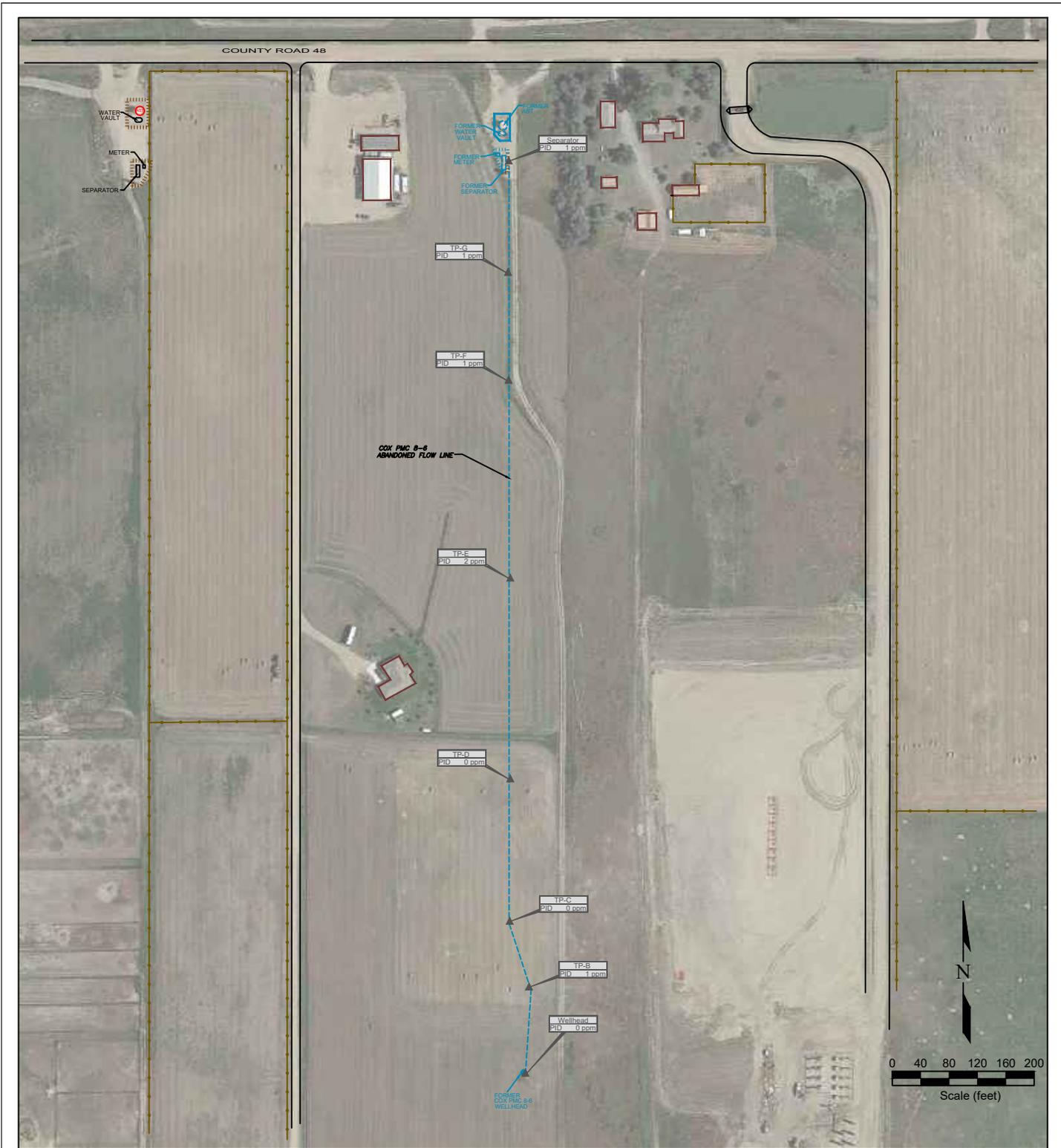
- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- BUILDING
- BUILDING
- FLOW LINE
- FENCE LINE

**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
 - ▲ PID LOCATION
 - FORMER FACILITY
 - BUILDING
 - CONTAINMENT BERM
 - FLOW LINE
 - FENCE LINE
- ECID
 PID 0.0 ppm
 PHOTO IONIZATION DETECTION READING (ppm)

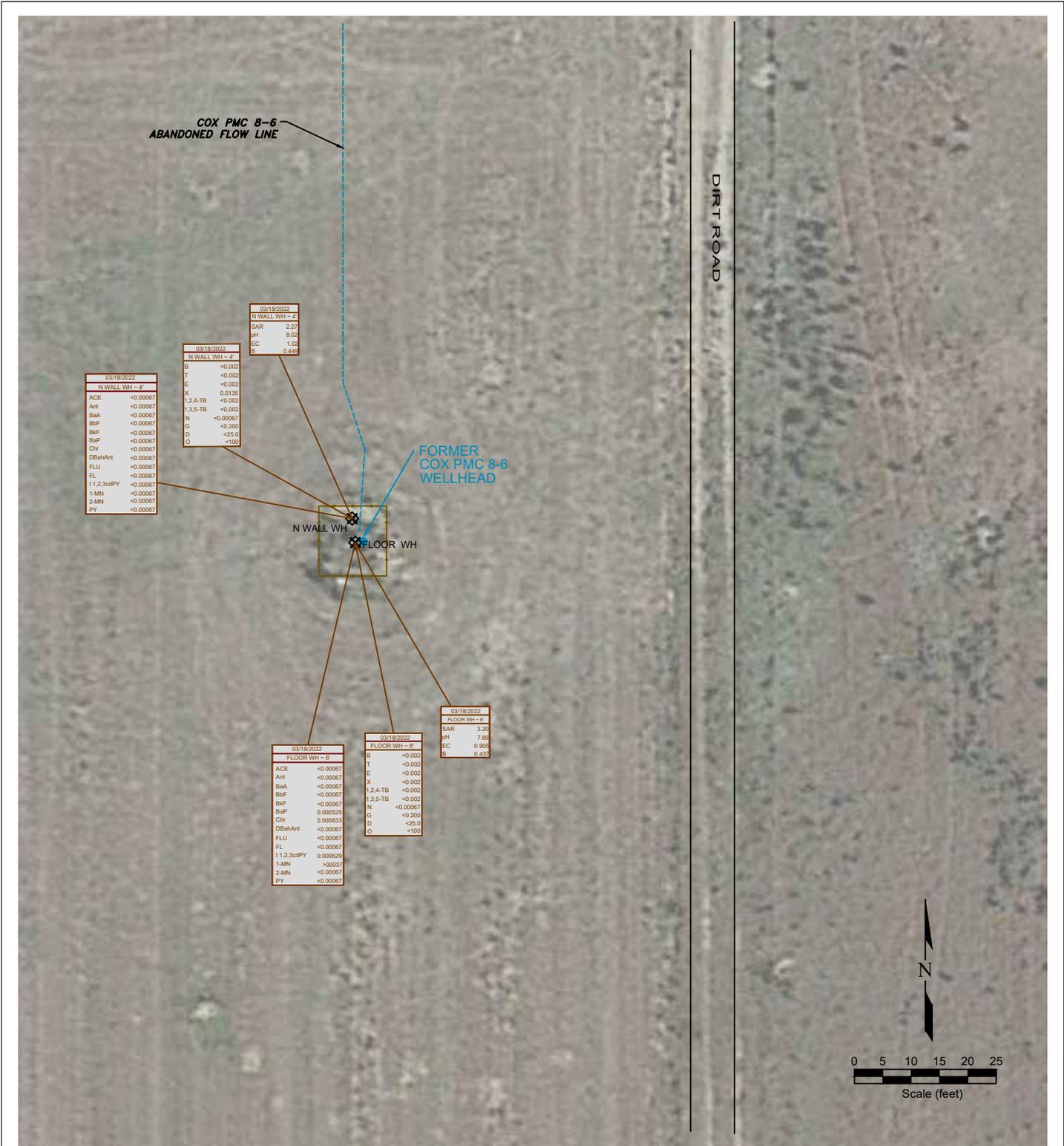
ppm = parts per million
 PID = photo ionization detection

**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





DIRT ROAD

COX PMC 8-6
ABANDONED FLOW LINE

FORMER COX PMC 8-6
WELLHEAD

N WALL WH
FLOOR WH

03/18/2022 N WALL WH - 4	
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BkF	<0.00067
BaP	<0.00067
Chr	<0.00067
DBaAnt	<0.00067
FLU	<0.00067
FL	<0.00067
1,1,2,3-cdPY	<0.00067
1-MN	<0.00067
2-MN	<0.00067
PY	<0.00067

03/18/2022 N WALL WH - 4	
B	<0.002
T	<0.002
E	<0.002
X	0.0135
1,2,4-TB	<0.002
1,3,5-TB	<0.002
Ni	<0.00067
Cr	<0.200
D	<25.0
O	<100

03/18/2022 N WALL WH - 4	
SAR	2.27
pH	8.02
EC	1.02
B	0.442

03/18/2022 FLOOR WH - 6	
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BkF	<0.00067
BaP	0.000525
Chr	0.000833
DBaAnt	<0.00067
FLU	<0.00067
FL	<0.00067
1,1,2,3-cdPY	0.000629
1-MN	>0.0037
2-MN	<0.00067
PY	<0.00067

03/18/2022 FLOOR WH - 6	
B	<0.002
T	<0.002
E	<0.002
X	<0.002
1,2,4-TB	<0.002
1,3,5-TB	<0.002
Ni	<0.00067
Cr	<0.200
D	<25.0
O	<100

03/18/2022 FLOOR WH - 2	
SAR	3.20
pH	7.89
EC	0.896
B	0.437

- WELLHEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ▭ CONTAINMENT BERM
- ▭ FORMER FACILITY
- FLOW LINE
- FENCE LINE

03/18/2022 N Wall WH - 4	
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BkF	<0.00067
BaP	<0.00067
Chr	<0.00067
DBaAnt	<0.00067
FLU	<0.00067
FL	<0.00067
1,1,2,3-cdPY	<0.00067
1-MN	<0.00067
2-MN	<0.00067
PY	<0.00067

03/18/2022 Separator Floor - 4	
B	<0.002
T	<0.002
E	<0.002
X	<0.002
1,2,4-TB	<0.002
1,3,5-TB	<0.002
Ni	<0.00067
Cr	<0.200
D	<25.0
O	<100

03/21/2022 Separator Floor - 4	
SAR	2.50
pH	7.98
EC	0.896
B	0.333

Figure 5
SOIL CHEMISTRY MAP
March 18, 2022
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 22018QWH





#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



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 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: JG Shipped Via: HD
 Date/time completed: 3/22/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.9 °C / _____ °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⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		No sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: JG (Project Manager)

Date/Time Reviewed: 3-23-22

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 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.



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

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.



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

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.



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

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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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.



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

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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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.



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

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.



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

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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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)

GBTEX+TMBs by 8260D

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

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

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.



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

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			"	"	"	

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)

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.



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										
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			

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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			

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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			

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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 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	
<i>Surrogate: o-Terphenyl</i>	54		"	49.8		108	50-150			

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Paul Henehan
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 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 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			

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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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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			

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Paul Henehan
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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
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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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 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
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 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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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
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 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

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
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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.



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.