FREMONT ENVIRONMENTAL INC.

July 2, 2022

Ms. Erica Zuniga
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Facility Closure Data Submittal**
Miller 16-29 Tank Battery
API # 05-123-12830
SESE Sec 29, T6N, R64W
Weld County, Colorado
Fremont Project No. C022-056
Facility #323297, Remediation #22488

Dear Ms. Zuniga:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure tasks for the Noble Energy Inc. (Noble) Miller 16-29 tank battery. Impacted soil was encountered during the facility closure process; groundwater was not present. Details of the facility removal activities are documented in the attached Closure Report.

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

Sincerely,

FREMONT ENVIRONMENTAL INC.

Paul V. Henehan, P.E.
Senior Consultant

Attachments:
- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Report

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

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	X	Partially Buried Vault Closure

Site Name & COGCC Facility Number: Miller 16-29, 481574	*Date:* 5/18/2022	*Remediation Project #:* 22488
Associated Wells: Miller 16-29, 05-123-12830	*Age of Site:* 1999	*Number of Photos Attached:* 8
Location: *(GPS coordinates of southeaster berm)* 40.449949/-104.566346		*Estimated Facility Size (acres):* 1 ac

General Condition of Site: *(General observations regarding housekeeping, corrosion, waste management, etc.)*

Good condition, no obvious issues

USCS Soil Type: SM	*Estimated Depth to Groundwater:* 10 ft

Hydrocarbon Impacted Soils / Spills: *(Note estimated size and if impact appears to be surficial or extends to an unknown depth)*

Light impacts observed at eastern wall of former 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								
Age	1999								
Construction Material	Steel								
Tank type (AST/BBV, etc.)	AST								
Visual Integrity of Tank	Already removed								
Condition of tank footprint	Good								
PID Readings	6 ppm								
Soil impacts present at valves or hatches?	none								
PID Readings	6 ppm								
Sample taken? Location/ Sample ID#	Yes, Y205509-1								
Photo Number(s)	1								

Other observations regarding tanks:

Separators

Separator size	unknown								
Vertical or Horizontal	horiz								
Age	1999								
Soil impacts observed? If yes	none								
PID Readings	2 ppm								
Sample taken? Location/ Sample ID#	Yes, Y205509-2								
Photo Number(s)	5,6,7								

Other observations regarding separators

Third Party Equipment

Type									
Age									

Third Party Operator									
Removal Date									
Sample taken? Location/Sample									
PID Readings									
Photo Number(s)									

Other Facility Equipment

Equipment type					
Equipment Condition					
Age					
Soil impacts observed during					
PID Readings					
Sample taken? Location/Sample					
Photo Number(s)					

Other observations regarding other facility or third party equipment:

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: 10	*Total number of samples collected:* 10
Highest PID Reading: 11 ppm	*Total number of samples submitted to lab for analysis:* 5
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?
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		Wellhead Closure		Flowline Closure	X	Tank Battery Closure

Site Name & COGCC Facility Number: Miller 16-29, 481574	*Date:* 5/18/2022	*Remediation Project #:* 22488
Associated Wells: 05-123-12830	*Age of Site:* 1999	*Number of Photos Attached:* 8
Location: *(GPS coordinates of vault or southeastern tank berm for multiple)* 40.449949/-104.566346		*Estimated Facility Size (acres):* 1 ac

General Condition of Site: *(General observations regarding housekeeping, corrosion, waste management, etc.)* Good condition

USCS Soil Type: SM	*Estimated Depth to Groundwater:* 10 ft

Hydrocarbon Impacted Soils / Spills: *(Note estimated size and if impact appears to be surficial or extends to an unknown depth)*

Light soil impacts along east wall of former 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	Prod Water								
Size (barrels)	50								
Age	1999								
Construction Material	Concrete								
Visual Integrity of Tank	Already gone								
Condition of tank footprint	Good								
PID Readings	11 ppm								
Condition of dump line	Good								
PID Readings	2 ppm								
Sample taken? Location/Sample ID#	Yes, Y205509-3,4								
Photo Number(s)	1,2,3,4,8								

Other observations regarding partially buried vessels:

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: 10	*Total number of samples collected:* 10
Highest PID Reading: 11 ppm	*Total number of samples submitted to lab for analysis:* 5
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? TBD

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:	

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLER 16-29 FACILITY
FREMONT PROJECT NO. C022-056

Sample	Depth (ft)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphth-alene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
AST 0.5 Ft	0.5	5/18/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
Separator 1 Ft	1	5/18/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
PWV E. Wall 4 Ft	4	5/18/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
PWV Floor 6 Ft	6	5/18/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
BG-1 1 Ft	1	5/18/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLER 16-29
FREMONT PROJECT NO. C022-056

Sample	Depth (ft)	Date Sampled	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)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
AST 0.5 Ft	0.5	5/18/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000663	0.00254	<0.00067
Separator 1 Ft	1	5/18/2022	<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
PWV E. Wall 4 Ft	4	5/18/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	**0.00749**	0.0127	<0.00067
PWV Floor 6 Ft	6	5/18/2022	<0.00067	<0.00067	0.00183	0.00281	0.00164	0.00352	0.00223	<0.00067	0.00173	0.0014	0.00462	<0.00067	<0.00067	0.00192
BG-1 1 Ft	1	5/18/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

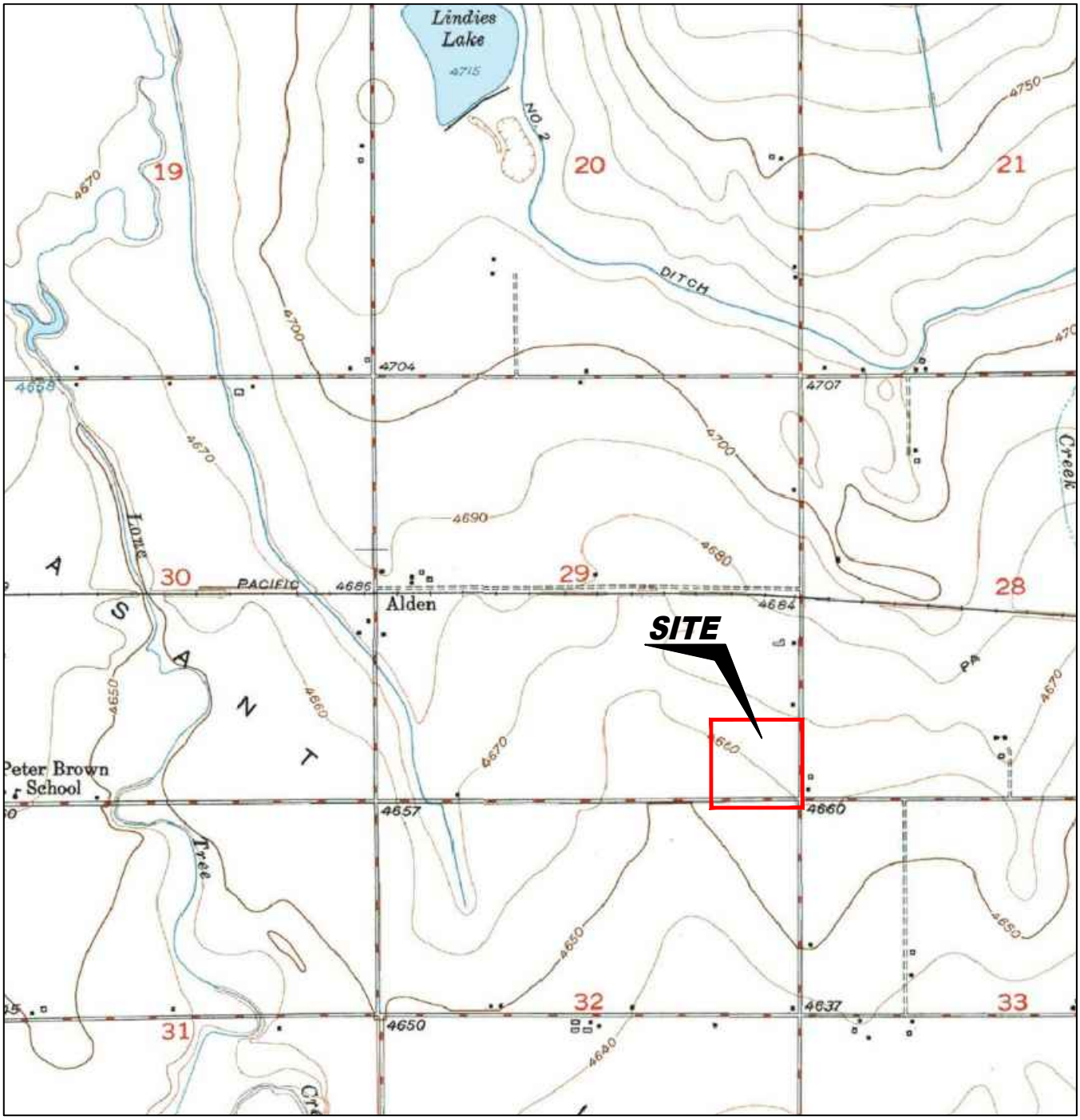
Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLER 16-29
FREMONT PROJECT NO. C022-056

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
PWV E.Wall 4 Ft	5/18/2022	4	0.508	8.10	0.349	0.276
BG-1 1 Ft	5/18/2022	1	0.960	8.30	0.421	1.40
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits
NA - Not Analyzed



N

Scale (miles)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
0 1000 2000 3000 4000 5000
Scale (feet)

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County ,Colorado
40.451558°, -104.566222°

Project #	API #	Facility ID
C022-056	**05-123-12830**	**482045**
Date	Remediation #	Filename
6/14/22		**22056T**

FREMONT ENVIRONMENTAL

LEGEND

ABOVE GROUND STORAGE TANK
FORMER FORMER FACILITY
CONTAINMENT BERM
EXTENT OF EXCAVATION
DUMP LINES
FENCE LINE

Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County ,Colorado
40.451558°, -104.566222°

Project No.	API #	Facility #
C022-056	**05-123-12830**	**482045**
Date	Reviewed By	Filename
6/14/22		**22056Q**

FREMONT ENVIRONMENTAL

LEGEND

SOIL SAMPLE LOCATION
ABOVE GROUND STORAGE TANK
FORMER FORMER FACILITY
CONTAINMENT BERM
EXTENT OF EXCAVATION
DUMP LINES
FENCE LINE

05/18/2022
AST (0.5')
ACE <0.00067
Ant <0.00067
BaA <0.00067
BbF <0.00067
BkF <0.00067
BaP <0.00067
Chr <0.00067
DBahAnt <0.00067
FLU <0.00067
FL <0.00067
I 1,2,3cdPY <0.00067
1-MN 0.000663
2-MN 0.00254
PY <0.00067

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
ACENAPHTHENE (mg/kg)
ANTHRACENE (mg/kg)
BENZO (A) ANTHRACENE (mg/kg)
BENZO (B) FLUORANTHENE (mg/kg)
BENZO (K) FLUORANTHENE(mg/kg)
BENZO (A) PYRENE (mg/kg)
CHRYSENE (mg/kg)
DIBENZ (A,H) ANTHRACENE (mg/kg)
FLUORANTHENE (mg/kg)
FLUORENE (mg/kg)
INDENO (1,2,3-CD) PYRENE(mg/kg)
1-METHYLNAPHTHALENE (mg/kg)
2-METHYLNAPHTHALENE (mg/kg)
PYRENE (mg/kg)

05/18/2022
AST (0.5')
B <0.00200
T <0.00200
E <0.00200
X <0.00200
1,2,4-TB <0.00200
1,3,5-TB <0.00200
N <0.00067
G <0.200
D <25.0
O <100

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TRIMETHYLBENZENE (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)
TPH-ORO (mg/kg)

05/18/2022
PWV E. Wall (4')
SAR 0.349
pH 8.10
EC 0.508
B 0.270

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
SAR (units)
pH (pH units)
EC (mmhos/cm)
BORON (mg/L)

Figure 3
SOIL CHEMISTRY MAP
May 18, 2022

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County ,Colorado
40.451558°, -104.566222°

Project No.	API #	Facility #
C022-056	**05-123-12830**	**482045**
Date	Reviewed By	Filename
6/14/22		**22056Q**

FREMONT ENVIRONMENTAL

#1 – Looking North at Former Tank Battery on April 18, 2022

#2 -Looking Northeast at Former Water Vault Location

#3 - Looking Southeast at Former Water Vault Location

#4 – Looking South at East Wall of Former Water Vault Location

#5 - Looking North at Former Separator Location

#6 – Looking North at Former Separator Location

#7 – Looking South at Former Separator Location

#8 – Looking Southwest at Former Water Vault Location

ORIGINS LABORATORY, INC

May 27, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - Miller 16-29 **Project Number - C022-056**

Attached are your analytical results for Noble - Miller 16-29 received by Origins Laboratory, Inc. May 19, 2022. This project is associated with Origins project number Y205509-01.

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

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST 0.5 ft	Y205509-01	Soil	May 18, 2022 0:00	05/19/2022 14:25
SEP 1 ft	Y205509-02	Soil	May 18, 2022 0:00	05/19/2022 14:25
PWV- E. Wall 4 ft	Y205509-03	Soil	May 18, 2022 0:00	05/19/2022 14:25
PWV - Floor 6 ft	Y205509-04	Soil	May 18, 2022 0:00	05/19/2022 14:25
BG-1 1ft	Y205509-05	Soil	May 18, 2022 0:00	05/19/2022 14:25

Origins Laboratory, Inc.

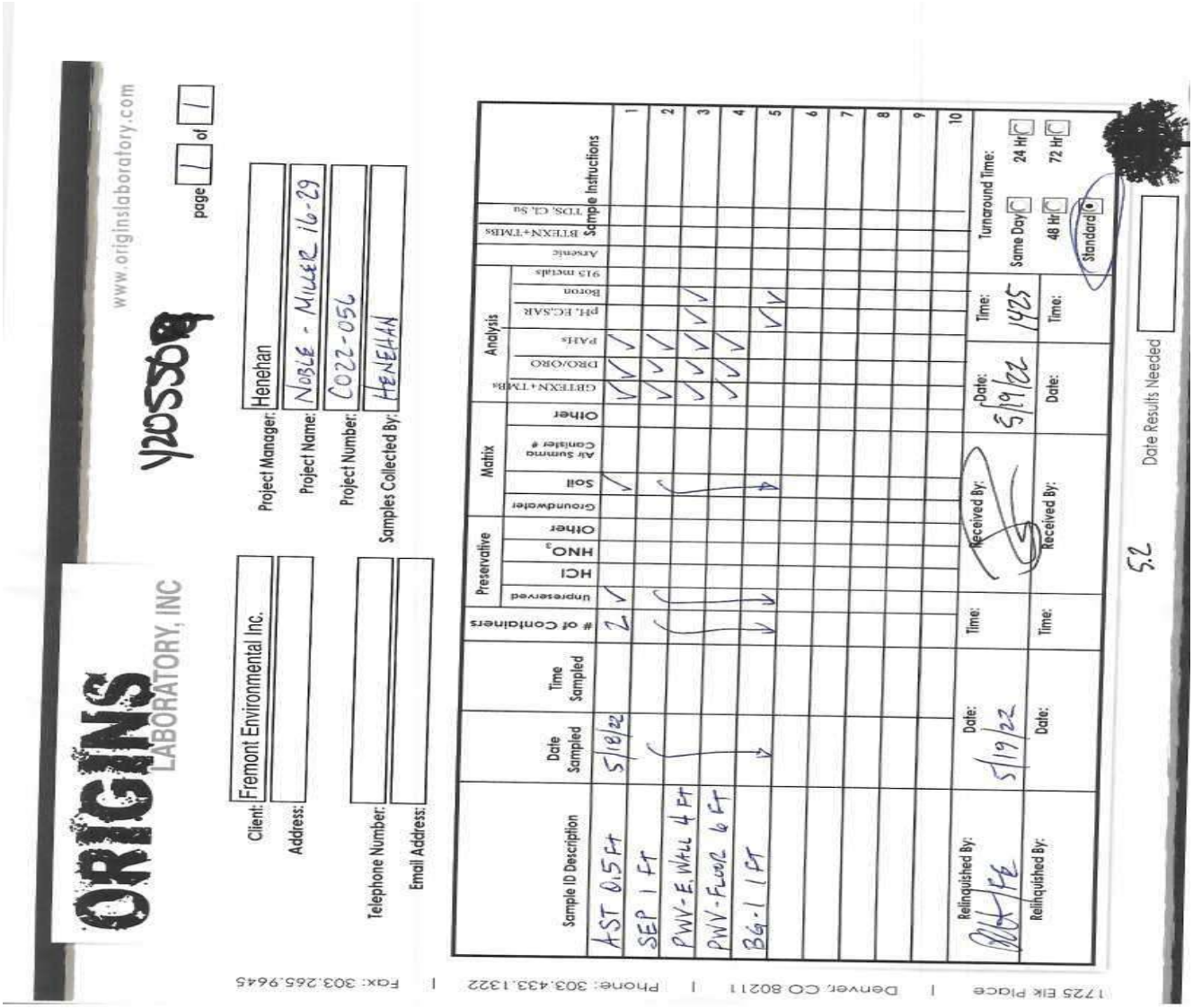
Jen Pellegrini, Project Manager

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.

ORIGINS LABORATORY, INC

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29



Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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: C022-056
Project: Noble - Miller 16-29

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1205509
Client: Fremont
Client Project ID: miller 16-29
Checklist Completed by: KH
Date/time completed: 5/19/22
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA
Matrix(s) Received: (Check all that apply): / Soil/Solid ____ Water ____ Other: ____
Cooler Number/Temperature: 1 / 5.2 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C (Describe)
Thermometer ID: T0024

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 time or relinquish time
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 (Project Manager) 5/20/22 Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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: C022-056
Project: Noble - Miller 16-29

AST 0.5 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y205509-01 (Soil)									
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E2001	05/20/2022	05/24/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*107 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1920	05/19/2022	05/20/2022	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	*108 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*103 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*93.5 %*		*70-130*			"	"	"	
PAH by 8270D SIM									

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

AST 0.5 ft
5/18/2022 12:00:00AM

Waypoint Analytical, Inc.

Y205509-01 (Soil)

PAH by 8270D SIM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	**0.000663**	**0.000364**	0.00067	mg/Kg	1	L617723	05/23/2022	05/23/2022	J
2-Methylnaphthalene	**0.00254**	**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	"	"	"	"	"	
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	*69.8 %*	*33-115*	"	"	"
Surrogate: 4-Terphenyl-d14	*76.1 %*	*33-122*	"	"	"
Surrogate: Nitrobenzene-d5	*69.8 %*	*29-110*	"	"	"

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

SEP 1 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y205509-02 (Soil)									
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E2001	05/20/2022	05/24/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*104 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1920	05/19/2022	05/20/2022	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	*106 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*99.6 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*			"	"	"	
PAH by 8270D SIM									

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

SEP 1 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Waypoint Analytical, Inc.

Y205509-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617723	05/23/2022	05/23/2022
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	"	"	"	"	"
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	*62 %*	*33-115*	"	"	"
Surrogate: 4-Terphenyl-d14	*77.5 %*	*33-122*	"	"	"
Surrogate: Nitrobenzene-d5	*66.3 %*	*29-110*	"	"	"

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

PWV- E. Wall 4 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y205509-03 (Soil)

Boron (DTPA Sorbitol)

Boron	**0.276**	0.0987	mg/L	1	B2E2002	05/20/2022	05/23/2022	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2001	05/20/2022	05/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*92.2 %*	*50-150*			"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1920	05/19/2022	05/20/2022	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	*109 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

PWV- E. Wall 4 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y205509-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	*99.1 %*		*70-130*			*B2E1920*	*05/19/2022*	*05/20/2022*	
Surrogate: 4-Bromofluorobenzene	*99.2 %*		*70-130*			*"*	*"*	*"*	

Metals by Saturated Paste by EPA 6010

Calcium	**3.71**		0.499	meq/L	10	[CALC]	05/20/2022	05/23/2022	
Magnesium	**1.15**		0.823	"	"	"	"	"	
Sodium	**0.544**		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	**0.00749**	**0.00182**	0.00335	mg/Kg	5	L617723	05/23/2022	05/23/2022	
2-Methylnaphthalene	**0.0127**	**0.00323**	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

PWV- E. Wall 4 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Waypoint Analytical, Inc.

Y205509-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L617723	05/23/2022	05/23/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66 %*		*33-115*			"	"	"	
Surrogate: 4-Terphenyl-d14	*78.9 %*		*33-122*			"	"	"	
Surrogate: Nitrobenzene-d5	*70.8 %*		*29-110*			"	"	"	

pH in Soil by 9045D

pH	**8.10**			pH Units	1	B2E2008	05/20/2022	05/21/2022	

SAR by 20B Saturated Paste

SAR	**0.349**			SAR	1	B2E2005	05/20/2022	05/23/2022	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**0.508**		0.00500	mmhos/cm	1	B2E2008	05/20/2022	05/21/2022	

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

PWV - Floor 6 ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y205509-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2001	05/20/2022	05/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*99.8 %*	*50-150*			"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1920	05/19/2022	05/20/2022	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	*110 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*98.6 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.1 %*	*70-130*			"	"	"	

PAH by 8270D SIM

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

PWV - Floor 6 ft
5/18/2022 12:00:00AM

Waypoint Analytical, Inc.

Y205509-04 (Soil)

PAH by 8270D SIM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617723	05/23/2022	05/23/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	**0.00183**	**0.000493**	0.00067	"	"	"	"	"	
Benzo(a)pyrene	**0.00352**	**0.000468**	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	**0.00281**	**0.000585**	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	**0.00164**	**0.000437**	0.00067	"	"	"	"	"	
Chrysene	**0.00223**	**0.000624**	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	**0.00173**	**0.000394**	0.00067	"	"	"	"	"	
Fluorene	**0.0014**	**0.000286**	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	**0.00462**	**0.000627**	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	**0.00192**	**0.000643**	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	*63.9 %*	*33-115*	"	"	"
Surrogate: 4-Terphenyl-d14	*76.7 %*	*33-122*	"	"	"
Surrogate: Nitrobenzene-d5	*63.6 %*	*29-110*	"	"	"

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

BG-1 1ft
5/18/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y205509-05 (Soil)

Boron (DTPA Sorbitol)

Boron	**1.40**	0.0998	mg/L	1	B2E2002	05/20/2022	05/23/2022

Metals by Saturated Paste by EPA 6010

Calcium	**2.61**	0.499	meq/L	10	[CALC]	05/20/2022	05/23/2022
Magnesium	**1.76**	0.823	"	"	"	"	"
Sodium	**0.622**	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	**8.30**		pH Units	1	B2E2008	05/20/2022	05/21/2022

SAR by 20B Saturated Paste

SAR	**0.421**		SAR	1	B2E2005	05/20/2022	05/23/2022

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**0.960**	0.00500	mmhos/cm	1	B2E2008	05/20/2022	05/21/2022

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E1920 - EPA 5030 (soil)										
Blank (B2E1920-BLK1)					Prepared: 05/19/2022 Analyzed: 05/20/2022					
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*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*97.8*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E1920 - EPA 5030 (soil)										
LCS (B2E1920-BS1)					Prepared: 05/19/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.0980	0.00200	mg/kg	0.100		98.0	70-130			
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Benzene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*105*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*98.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*105*	*70-130*			

Origins Laboratory, Inc.

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Wellington CO 80549

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E1920 - EPA 5030 (soil)										
Matrix Spike (B2E1920-MS1)		**Source: Y205500-01**			Prepared: 05/19/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	0.000840	99.9	70-130			
1,3,5-Trimethylbenzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.104	0.0100	"	0.100	0.000880	103	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.207	0.00400	"	0.200	0.000780	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*98.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*106*	*70-130*			

Origins Laboratory, Inc.

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Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E1920 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1920-MSD1)		**Source: Y205500-01**			Prepared: 05/19/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	0.000840	96.6	70-130	3.31	20	
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	3.43	20	
Benzene	0.0991	0.00200	"	0.100	ND	99.1	70-130	0.984	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.16	20	
Naphthalene	0.101	0.0100	"	0.100	0.000880	100	70-130	2.67	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	1.55	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	1.84	20	
m,p-Xylene	0.203	0.00400	"	0.200	0.000780	101	70-130	2.01	20	
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*99.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*107*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E2001 - EPA 3580										
Blank (B2E2001-BLK1)					Prepared: 05/20/2022 Analyzed: 05/24/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*20*		*"*	*24.9*		*80.7*	*50-150*			

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E2001 - EPA 3580										
LCS (B2E2001-BS1)					Prepared: 05/20/2022 Analyzed: 05/23/2022					
Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	*63*		*"*	*49.8*		*126*	*50-150*			

Origins Laboratory, Inc.

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Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 B2E2001 - EPA 3580										
Matrix Spike (B2E2001-MS1)		**Source: Y205507-01**			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	102	97.5	70-130			
Surrogate: o-Terphenyl	*54*		*"*	*49.8*		*108*	*50-150*			

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Paul Henehan
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Project: Noble - Miller 16-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E2001 - EPA 3580										
Matrix Spike Dup (B2E2001-MSD1)		**Source: Y205507-01**			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Diesel (C10-C28)	1360	50.0	mg/kg	1000	ND	136	70-130	20.2	35	QM-07
Residual Range Organics (C28-C40)	1300	200	"	1000	102	120	70-130	18.8	35	QM-07
Surrogate: o-Terphenyl	*63*		*"*	*49.8*		*127*	*50-150*			

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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

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E2002 - Default Prep Metals										
Blank (B2E2002-BLK1)					Prepared: 05/20/2022 Analyzed: 05/23/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2E2002-DUP1)		**Source: Y205482-07**			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Boron	2.37	0.988	mg/L		2.19			8.10	50	

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Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E2008 - NO PREP										
Blank (B2E2008-BLK1)					Prepared: 05/20/2022 Analyzed: 05/21/2022					
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U
pH	0.00		pH Units							U
Duplicate (B2E2008-DUP1)		**Source: Y205504-01**			Prepared: 05/20/2022 Analyzed: 05/21/2022					
pH	8.13		pH Units		8.15			0.246	25	
Specific Conductance (EC)	2.22	0.0300	mmhos/cm		1.64			29.7	25	QR-DUP

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Paul Henehan
Project Number: C022-056
Project: Noble - Miller 16-29

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 L617723 - 3550B										
MSD (L 95797-MSD-L617723)		**Source: Y205509-01**			Prepared: 05/23/2022 Analyzed: 05/23/2022					
Benzo(b)fluoranthene	0.0793	0.000585	mg/Kg	0.164	<0.000585	48.3	30-130	19.1	30	
1-Methylnaphthalene	0.0973	0.000364	"	0.164	0.000663	58.9	30-130	10.4	30	
2-Methylnaphthalene	0.104	0.000645	"	0.164	0.00254	61.8	30-130	13.4	30	
Acenaphthene	0.102	0.000304	"	0.164	<0.000304	62.1	30-130	13.6	30	
Anthracene	0.102	0.000334	"	0.164	<0.000334	62.1	30-130	10.2	30	
Pyrene	0.0799	0.000643	"	0.164	<0.000643	48.7	30-130	19.9	30	
Naphthalene	0.0919	0.000484	"	0.164	<0.000484	56	30-130	14.2	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.164	<0.000627	75.6	30-130	20.2	30	
Fluorene	0.11	0.000286	"	0.164	<0.000286	67	30-130	13.5	30	
Fluoranthene	0.0881	0.000394	"	0.164	<0.000394	53.7	30-130	17.5	30	
Dibenz(a,h)anthracene	0.142	0.000614	"	0.164	<0.000614	86.5	30-130	21.3	30	
Chrysene	0.104	0.000624	"	0.164	<0.000624	63.4	30-130	12.6	30	
Benzo(k)fluoranthene	0.0839	0.000437	"	0.164	<0.000437	51.1	30-130	26	30	
Benzo(a)anthracene	0.115	0.000493	"	0.164	<0.000493	70.1	30-130	13	30	
Benzo(a)pyrene	0.107	0.000468	"	0.164	<0.000468	65.2	30-130	12.2	30	
Surrogate: 2-Fluorobiphenyl	*67.3*		"	*0.328*	*231*	*67.3*	*33-115*			
Surrogate: 4-Terphenyl-d14	*64.3*		"	*0.328*	*252*	*64.3*	*33-122*			
Surrogate: Nitrobenzene-d5	*65.8*		"	*0.328*	*231*	*65.8*	*29-110*			
MS (L 95797-MS-L617723)		**Source: Y205509-01**			Prepared: 05/23/2022 Analyzed: 05/23/2022					
Benzo(a)pyrene	0.121	0.000468	mg/Kg	0.164	<0.000468	73.7	30-130			
Chrysene	0.118	0.000624	"	0.164	<0.000624	71.9	30-130			
Pyrene	0.0976	0.000643	"	0.164	<0.000643	59.5	30-130			
Naphthalene	0.106	0.000484	"	0.164	<0.000484	64.6	30-130			
Indeno(1,2,3-cd)pyrene	0.152	0.000627	"	0.164	<0.000627	92.6	30-130			
Fluorene	0.126	0.000286	"	0.164	<0.000286	76.8	30-130			
Fluoranthene	0.105	0.000394	"	0.164	<0.000394	64	30-130			

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Paul Henehan
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Project: Noble - Miller 16-29

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 L617723 - 3550B										
MS (L 95797-MS-L617723)		**Source: Y205509-01**			Prepared: 05/23/2022 Analyzed: 05/23/2022					
Dibenz(a,h)anthracene	0.176	0.000614	mg/Kg	0.164	<0.000614	107	30-130			
Benzo(b)fluoranthene	0.0961	0.000585	"	0.164	<0.000585	58.5	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.164	<0.000493	79.8	30-130			
Anthracene	0.113	0.000334	"	0.164	<0.000334	68.9	30-130			
Acenaphthene	0.117	0.000304	"	0.164	<0.000304	71.3	30-130			
2-Methylnaphthalene	0.119	0.000645	"	0.164	0.00254	71	30-130			
Benzo(k)fluoranthene	0.109	0.000437	"	0.164	<0.000437	66.4	30-130			
1-Methylnaphthalene	0.108	0.000364	"	0.164	0.000663	65.4	30-130			
Surrogate: Nitrobenzene-d5	*71*		"	*0.328*	*231*	*71*	*29-110*			
Surrogate: 2-Fluorobiphenyl	*70.7*		"	*0.328*	*231*	*70.7*	*33-115*			
Surrogate: 4-Terphenyl-d14	*71.9*		"	*0.328*	*252*	*71.9*	*33-122*			
LCS (LCS-L617723)					Prepared: 05/23/2022 Analyzed: 05/23/2022					
Dibenz(a,h)anthracene	0.126	0.000614	mg/Kg	0.167		75.4	30-130			
Fluoranthene	0.107	0.000394	"	0.167		64	30-130			
Fluorene	0.112	0.000286	"	0.167		67	30-130			
Pyrene	0.101	0.000643	"	0.167		60.4	30-130			
Indeno(1,2,3-cd)pyrene	0.118	0.000627	"	0.167		70.6	30-130			
Chrysene	0.119	0.000624	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.11	0.000645	"	0.167		65.8	30-130			
Naphthalene	0.0998	0.000484	"	0.167		59.7	30-130			
Benzo(b)fluoranthene	0.0862	0.000585	"	0.167		51.6	30-130			
Benzo(a)pyrene	0.121	0.000468	"	0.167		72.4	30-130			
Benzo(a)anthracene	0.124	0.000493	"	0.167		74.2	30-130			
Anthracene	0.112	0.000334	"	0.167		67	30-130			
1-Methylnaphthalene	0.104	0.000364	"	0.167		62.2	30-130			
Acenaphthene	0.108	0.000304	"	0.167		64.6	30-130			

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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L617723 - 3550B										
LCS (LCS-L617723)					Prepared: 05/23/2022 Analyzed: 05/23/2022					
Benzo(k)fluoranthene	0.0986	0.000437	mg/Kg	0.167		59	30-130			
Surrogate: Nitrobenzene-d5	*74.7*		"	*0.333*		*74.7*	*29-110*			
Surrogate: 4-Terphenyl-d14	*82.5*		"	*0.333*		*82.5*	*33-122*			
Surrogate: 2-Fluorobiphenyl	*73.5*		"	*0.333*		*73.5*	*33-115*			
LRB (LRB-L617723)					Prepared: 05/23/2022 Analyzed: 05/23/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	*75.9*		"	*0.333*		*75.9*	*29-110*			
Surrogate: 4-Terphenyl-d14	*88.8*		"	*0.333*		*88.8*	*33-122*			
Surrogate: 2-Fluorobiphenyl	*72.9*		"	*0.333*		*72.9*	*33-115*			

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Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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