

FREMONT ENVIRONMENTAL INC.

February 10, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, CO 80202

Subject: **Excavation Report**
 Schaefer 24-3-7HC
 SWSE Sec 24, T1S, R67W
 Adams County, Colorado
 Fremont Project No. C020-103
 Facility #440718, Spill #478821

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Excavation Report for the Schaefer 24-3-7HC separator release site in Adams County, Colorado. The enclosed report describes excavation actions to remove contaminated soil from the site.

Since the contaminated soil has been removed, Great Western Operating Company, LLC should request that a no further action (NFA) determination be provided by the Colorado Oil and Gas Conservation Commission.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henahan, P.E.
Senior Consultant

Enclosure

EXCAVATION REPORT

GREAT WESTERN OPERATING COMPANY, LLC

SCHAEFER 24-3-7HC

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C020-077

FACILITY #440718, SPILL #478821

Prepared by:

**Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714**

February 10, 2021

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 BACKGROUND INFORMATION	1
2.1 Site Location	1
2.2 Site History	1
3.0 FIELD ACTIVITIES	1
4.0 DISCUSSION	3
5.0 REMARKS	3

Table

Table 1: Summary of Petroleum Constituents in Soil Chemistry Data

Figures

Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Excavation and Sample Locations for Laboratory Analyses

Appendix

Appendix A: Laboratory Documentation

EXCAVATION REPORT
GREAT WESTERN OPERATING COMPANY, LLC
SCHAEFER 24-3-7HC
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-077
FACILITY #440718, SPILL #478821

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of petroleum-impacted soil at the Schaefer tank battery location in Adams County, Colorado. This excavation project was completed on January 6, 2021.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Schaefer 24-3-7HC site is located approximately two miles south of Brighton, Colorado in Adams County as shown on Figure 1. The site is located in a mixed light industrial and agricultural area approximately 0.2 miles east of the intersection of 136th Avenue East and Highway 85. The location is further described as the SW ¼ of the SE ¼ of Section 24, Township 1S, Range 67W.

2.2 Site History

The site's excavation area consisted of the soil below the facility's two westernmost separators. Soil impacts were identified beneath the separators during routine maintenance of the facility in December 2020.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of petroleum-impacted soil at this site. The soil consisted of road base which was underlain by sandy clay to a depth of

approximately eight feet. Groundwater was not encountered during the excavation. The 20' x 50' x 8' deep (maximum depth) excavated area is shown on Figure 3.

Excavation was initiated at the site on January 5, 2021 and completed on January 6, 2021. Soil removal was limited to the area beneath the two western separators; the separators were moved outside the secondary containment prior to excavation. The exterior sidewall and floor samples collected upon completion of the excavation work indicated that no residual soil contamination was present. All sidewall samples were collected as grab samples near the lower portion of the excavation wall at a depth of three to seven feet. The floor samples were collected from one to eight feet and were based on the varying depths of the excavation.

The soil samples were analyzed by Summit Scientific Inc. of Golden, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, and TPH - Diesel Range Organics (TPH-DRO) by EPA method 8015. The laboratory reports and chain-of-custody documentation are included in Appendix A.

A summary of the soil sampling laboratory data is included in Table 1. The laboratory analyses indicated that the soil samples collected from the exterior sidewalls and the floor achieved the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 limits.

A total of 87 tons (approximately 65 cubic yards) of petroleum-impacted soil was removed by Acme Oilfield Services Inc. from the location over this two-day project. The impacted soil was disposed of at the Buffalo Ridge Landfill in Keenesburg, Colorado as non-hazardous waste.

4.0 DISCUSSION

As demonstrated by the soil sampling, the petroleum-impacted soil was removed from the site by excavation. This was confirmed by the analyses of the soil samples collected from the exterior excavation sidewalls and floor which were below the COGCC's Table 910-1 limits. Disposal manifests show that 87 tons (approximately 65 cubic yards) of impacted soil were removed and transported to the Buffalo Ridge Landfill. Therefore, Great Western should request a no further action (NFA) determination from the COGCC.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



1/13/21

Date_____

Paul V. Henahan, P.E.

Senior Consultant

TABLE

TABLE 1
SUMMARY OF SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY, LLC
SCHAEFER 23-3-7HC, ADAMS COUNTY, COLORADO
FREMONT PROJECT C020-103

Sample	Depth (ft)	Date Sampled	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
E Doghouse 4 Ft	4	1/5/2021	<0.002	<0.005	<0.005	<0.01	<0.50	<50
W Doghouse 5 Ft	5	1/5/2021	0.017	0.14	0.022	0.22	6.4	<50
North 1 Ft	1	1/5/2021	<0.002	<0.005	<0.005	<0.01	<0.50	<50
East 2 Ft	2	1/5/2021	<0.002	<0.005	<0.005	<0.01	<0.50	<50
W Wall 3 Ft	3	1/5/2021	0.018	0.034	<0.005	0.04	0.97	<50
SE Wall 5 Ft	5	1/6/2021	<0.002	<0.005	<0.005	<0.01	<0.50	<50
SW Wall 5 Ft	5	1/6/2021	0.015	0.021	<0.005	0.034	<0.50	<50
S Wall 7 Ft	7	1/6/2021	0.012	0.013	<0.005	<0.01	<0.50	<50
S Floor 8 Ft	8	1/6/2021	0.0046	0.0083	<0.005	0.038	1.2	<50
C Floor 7 Ft	7	1/6/2021	0.012	0.021	<0.005	0.079	3.3	<50
COGCC Table 910 Limits			0.17	85	100	175	500	500

Bold faced values exceed the COGCC Table 910-1 concentrations

FIGURES

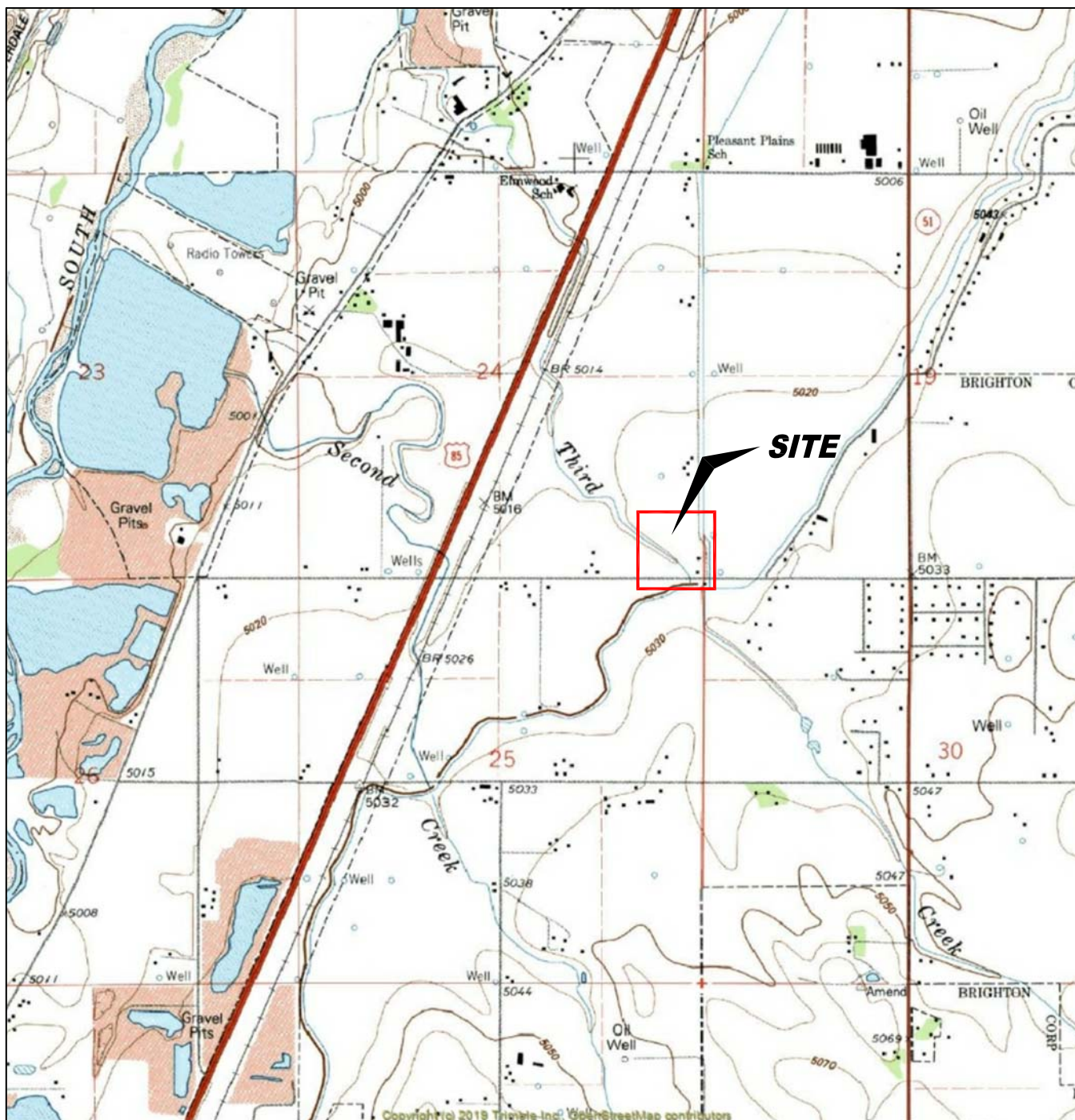


Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Schaefer 23-3-7HC
SWSE Sec. 24, T1S, R67W ~ 39.94487°, -104.83459%
Adams County, Colorado

Project No.
CO20-103

Prepared by

Drawn by
TA

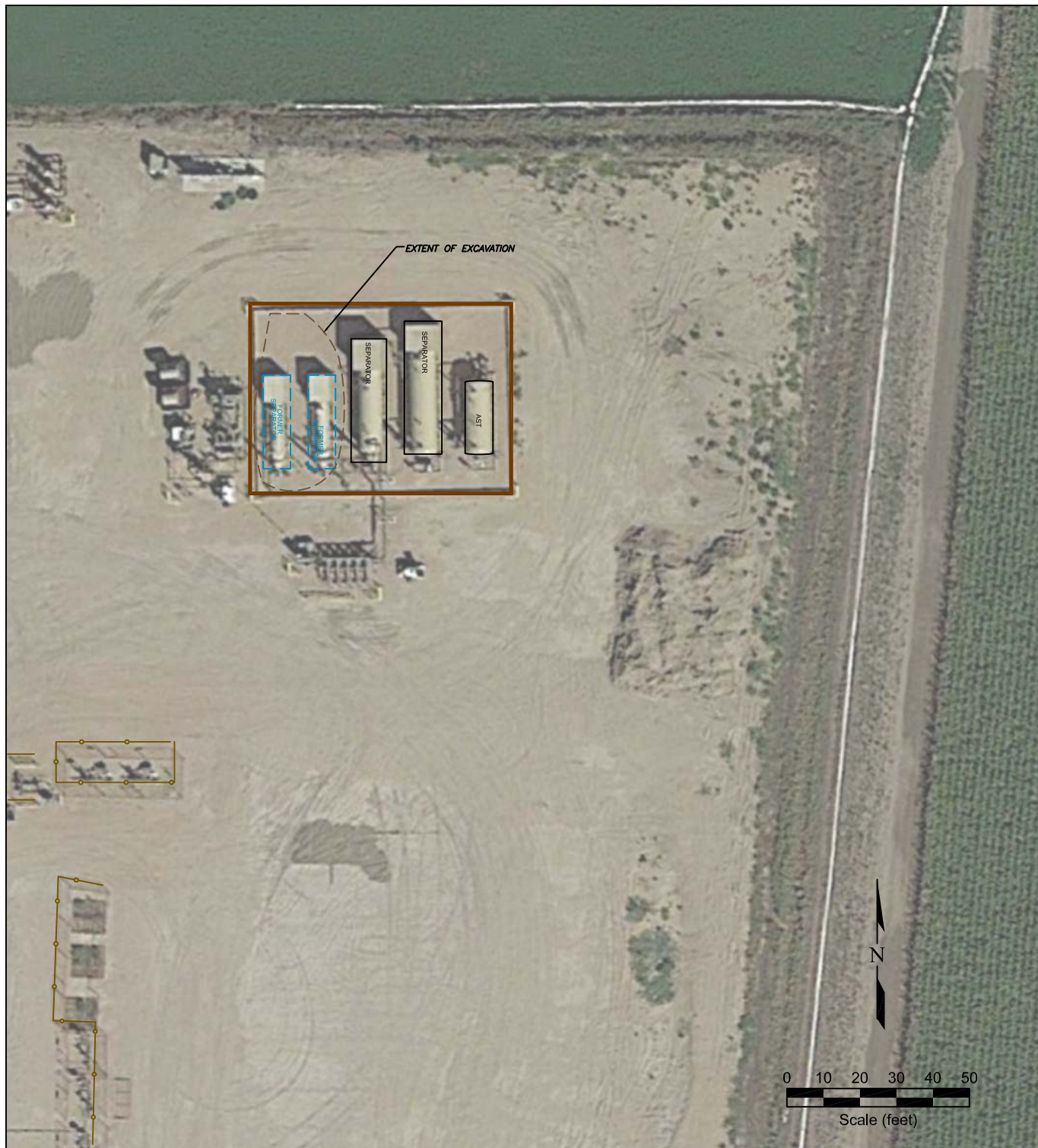
Date
1/12/21

Reviewed by
PH

Filename
20103T



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)



LEGEND

FORMER	FORMER FACILITY
	CONTAINMENT WALL
	EXTENT OF EXCAVATION
	DCP FLOW LINE
	FENCE LINE

Figure 2
SITE MAP

Noble Energy, Inc. ~ Schaefer 23-3-7HC
SWSE Sec. 24, T1S, R67W ~ 39.94487°, -104.83459°d
Adams County, Colorado

Project No.
CO20-103

Prepared by

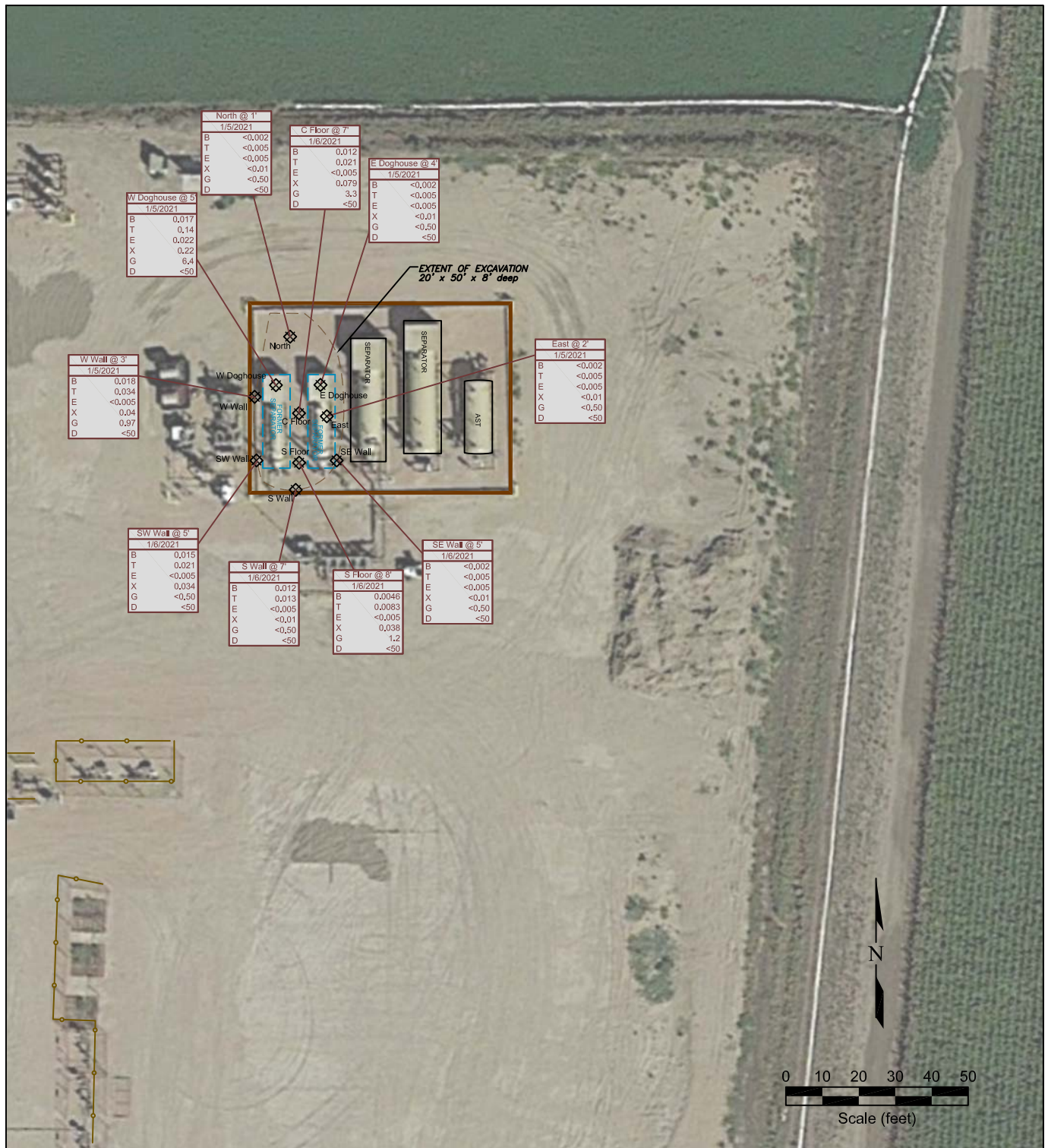
Drawn by
TA

Date
1/12/21

Reviewed by
PH

Filename
20103TQ





LEGEND

	SOIL SAMPLE LOCATION
	FORMER FACILITY
	CONTAINMENT WALL
	EXTENT OF EXCAVATION
	DCP FLOW LINE
	FENCE LINE

E Doghouse @ 4'	1/5/2021	SAMPLE ID and DEPTH DATE SAMPLED
B	<0.002	BENZENE (mg/kg)
T	<0.005	TOLUENE (mg/kg)
E	<0.005	ETHYLBENZENE (mg/kg)
X	<0.01	TOTAL XYLENES (mg/kg)
G	<0.50	TPH-GRO (mg/kg)
D	<50	TPH-DRO (mg/kg)

Figure 3
**EXTENT OF EXCAVATION
 WITH SOIL CHEMISTRY MAP**
 January 5, 2021 and January 6, 2021
 Noble Energy, Inc. ~ Schaefer 23-3-7HC
 SWSE Sec. 24, T1S, R67W ~ 39.94487°, -104.83459%
 Adams County, Colorado

Project No. CO20-103	Prepared by TA	Drawn by TA	
Date 1/12/21	Reviewed by PH	Filename 20103TQ	

APPENDIX A
LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 06, 2021

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: GWOC - Schaefer 24-3-7HC

Work Order #2101022

Enclosed are the results of analyses for samples received by Summit Scientific on 01/05/21 17:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E. DOG 4FT	2101022-01	Soil	01/05/21 00:00	01/05/21 17:26
W. DOG 5T	2101022-02	Soil	01/05/21 00:00	01/05/21 17:26
NORTH 1FT	2101022-03	Soil	01/05/21 00:00	01/05/21 17:26
EAST 2FT	2101022-04	Soil	01/05/21 00:00	01/05/21 17:26
W WALL 3FT	2101022-05	Soil	01/05/21 00:00	01/05/21 17:26

Summit Scientific

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

Summit Scientific 2101022

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: PAUL

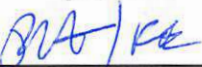

Phone: 303-956-8714

Project Name: GNOC- SCHAEFER 24-3-7HC

Sampler Name: HENEHAN

Project Number: CO20-103

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH			
1	E. DOG 4 FT	1/5/21		1			✓			✓				✓		✓	✓					
2	W. DOG 5 FT																					
3	NORTH 1 FT																					
4	EAST 2 FT																					
5	W WALL 3 FT																					
6																						
7																						
8																						
9																						
10																						

Relinquished by: 	Date/Time: 1/5/21 1730	Received by: 	Date/Time: 1-5-21 17:30	Turn Around Time (Check)	Notes: On Ice
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/> WED AM PLZ	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	Temperature Upon Receipt: 4.6
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Sample Receipt Checklist

S2 Work Order 2101022

Client: FREMONT ENV. Client Project ID: GWOL-SCHAEFER 24.3-7HC

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☒ Airbill #: _____

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	<u>4.6</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>On Ice</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SAME DAY TAT</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Muri P.
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

1-5-21
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

E. DOG 4FT
2101022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEA0024	01/05/21	01/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		146 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		127 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0025	"	01/05/21	EPA 8015M	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

W. DOG 5T
2101022-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.017	0.0020	mg/kg	1	BEA0024	01/05/21	01/05/21	EPA 8260B	
Toluene	0.14	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.022	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.22	0.010	"	"	"	"	"	"	
Naphthalene	0.018	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.4	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		115 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0025	"	01/05/21	EPA 8015M	

Date Sampled: **01/05/21 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

NORTH 1FT
2101022-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEA0024	01/05/21	01/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		120 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0025	"	01/05/21	EPA 8015M	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		121 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

EAST 2FT
2101022-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEA0024	01/05/21	01/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		124 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0025	"	01/05/21	EPA 8015M	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

W WALL 3FT
2101022-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.018	0.0020	mg/kg	1	BEA0024	01/05/21	01/05/21	EPA 8260B	
Toluene	0.034	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.040	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.97	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		125 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0025	"	01/05/21	EPA 8015M	

Date Sampled: **01/05/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0024 - EPA 5030 Soil MS

Blank (BEA0024-BLK1)

Prepared & Analyzed: 01/05/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0564		"	0.0400		141	23-173			
Surrogate: Toluene-d8	0.0546		"	0.0400		136	20-170			
Surrogate: 4-Bromofluorobenzene	0.0431		"	0.0400		108	21-167			

LCS (BEA0024-BS1)

Prepared & Analyzed: 01/05/21

Benzene	0.0939	0.0020	mg/kg	0.100		93.9	70-130			
Toluene	0.0904	0.0050	"	0.100		90.4	70-130			
Ethylbenzene	0.0841	0.0050	"	0.100		84.1	70-130			
m,p-Xylene	0.164	0.010	"	0.200		82.0	70-130			
o-Xylene	0.0856	0.0050	"	0.100		85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400		110	23-173			
Surrogate: Toluene-d8	0.0493		"	0.0400		123	20-170			
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	21-167			

Matrix Spike (BEA0024-MS1)

Source: 2101020-01

Prepared & Analyzed: 01/05/21

Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130			
Toluene	0.0926	0.0050	"	0.100	ND	92.6	70-130			
Ethylbenzene	0.0864	0.0050	"	0.100	ND	86.4	70-130			
m,p-Xylene	0.167	0.010	"	0.200	ND	83.4	70-130			
o-Xylene	0.0873	0.0050	"	0.100	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0478		"	0.0400		119	23-173			
Surrogate: Toluene-d8	0.0483		"	0.0400		121	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC
Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEA0024 - EPA 5030 Soil MS

Matrix Spike Dup (BEA0024-MSD1)	Source: 2101020-01			Prepared & Analyzed: 01/05/21						
Benzene	0.0988	0.0020	mg/kg	0.100	ND	98.8	70-130	4.59	30	
Toluene	0.0923	0.0050	"	0.100	ND	92.3	70-130	0.357	30	
Ethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130	4.68	30	
m,p-Xylene	0.176	0.010	"	0.200	ND	87.8	70-130	5.15	30	
o-Xylene	0.0915	0.0050	"	0.100	ND	91.5	70-130	4.70	30	
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		112	23-173			
Surrogate: Toluene-d8	0.0471		"	0.0400		118	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	21-167			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC
Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEA0025 - EPA 3550A

Blank (BEA0025-BLK1)

Prepared & Analyzed: 01/05/21

C10-C28 (DRO) ND 50 mg/kg

LCS (BEA0025-BS1)

Prepared & Analyzed: 01/05/21

C10-C28 (DRO) 478 50 mg/kg 500 95.7 70-130

Matrix Spike (BEA0025-MS1)

Source: 2101020-01

Prepared & Analyzed: 01/05/21

C10-C28 (DRO) 506 50 mg/kg 500 18.0 97.6 70-130

Matrix Spike Dup (BEA0025-MSD1)

Source: 2101020-01

Prepared & Analyzed: 01/05/21

C10-C28 (DRO) 505 50 mg/kg 500 18.0 97.4 70-130 0.251 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer 24-3-7HC

Project Number: C020-103
Project Manager: Paul Henchan

Reported:
01/06/21 13:43

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 07, 2021

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: GWOC - Schaefer Pad
Work Order #2101037

Enclosed are the results of analyses for samples received by Summit Scientific on 01/06/21 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SE WALL 5FT	2101037-01	Soil	01/06/21 00:00	01/06/21 16:20
SW WALL 5FT	2101037-02	Soil	01/06/21 00:00	01/06/21 16:20
S WALL 7FT	2101037-03	Soil	01/06/21 00:00	01/06/21 16:20
S FLOOR 8FT	2101037-04	Soil	01/06/21 00:00	01/06/21 16:20
C FLOOR 7FT	2101037-05	Soil	01/06/21 00:00	01/06/21 16:20

Summit Scientific

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

Summit Scientific 2101037

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: PAUL

Phone: 303-956-8714

Project Name: G.WOC- SCHAEFER PAD

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH		
1	SE WALL 5 FT	1/6/21		1			✓			✓				✓		✓	✓				
2	SW WALL 5 FT																				
3	S WALL 7 FT																				
4	S FLOOR 8 FT																				
5	C FLOOR 7 FT																				
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>PAUL/FE</u>	Date/Time: <u>1/6/21 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1-6-21 16:00</u>	Turn Around Time (Check) Same Day <u>X</u> 72 hours <u>—</u> 24 hours <u>—</u> Standard <u>—</u> 48 hours <u>—</u> <u>THURSDAY AM PLZ</u>	Notes: <u>On Ice</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>4.6</u> Samples Intact: <u>Yes</u> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S2 Work Order 2101037

Client Project ID: GWOC/Schaffer Pad

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)

Temp (°C)	4.6
-----------	-----

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			On Ice
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			Same Day TAT
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
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 w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
<u>Additional Comments (if any):</u>				

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

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

SE WALL 5FT
2101037-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEA0048	01/06/21	01/06/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0050	"	01/06/21	EPA 8015M	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

SW WALL 5FT
2101037-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.015	0.0020	mg/kg	1	BEA0048	01/06/21	01/06/21	EPA 8260B	
Toluene	0.021	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.034	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0050	"	01/06/21	EPA 8015M	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		127 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

S WALL 7FT
2101037-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.012	0.0020	mg/kg	1	BEA0048	01/06/21	01/06/21	EPA 8260B	
Toluene	0.013	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0050	"	01/06/21	EPA 8015M	

Date Sampled: **01/06/21 00:00**

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

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

S FLOOR 8FT
2101037-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0046	0.0020	mg/kg	1	BEA0048	01/06/21	01/06/21	EPA 8260B	
Toluene	0.0083	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.038	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0050	"	01/06/21	EPA 8015M	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

C FLOOR 7FT
2101037-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.012	0.0020	mg/kg	1	BEA0048	01/06/21	01/06/21	EPA 8260B	
Toluene	0.021	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.079	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEA0050	"	01/06/21	EPA 8015M	

Date Sampled: **01/06/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0048 - EPA 5030 Soil MS

Blank (BEA0048-BLK1)

Prepared & Analyzed: 01/06/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.1	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	21-167			

LCS (BEA0048-BS1)

Prepared & Analyzed: 01/06/21

Benzene	0.0729	0.0020	mg/kg	0.100		72.9	70-130			
Toluene	0.0864	0.0050	"	0.100		86.4	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.218	0.010	"	0.200		109	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	21-167			

Matrix Spike (BEA0048-MS1)

Source: 2101037-01

Prepared: 01/06/21 Analyzed: 01/07/21

Benzene	0.0730	0.0020	mg/kg	0.100	ND	73.0	70-130			
Toluene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
m,p-Xylene	0.214	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0048 - EPA 5030 Soil MS

Matrix Spike Dup (BEA0048-MSD1)

Source: 2101037-01

Prepared: 01/06/21 Analyzed: 01/07/21

Benzene	0.0726	0.0020	mg/kg	0.100	ND	72.6	70-130	0.577	30	
Toluene	0.0867	0.0050	"	0.100	ND	86.7	70-130	0.555	30	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	2.43	30	
m,p-Xylene	0.217	0.010	"	0.200	ND	108	70-130	1.37	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	1.68	30	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	21-167			

Summit Scientific

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Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEA0050 - EPA 3550A

Blank (BEA0050-BLK1)

Prepared & Analyzed: 01/06/21

C10-C28 (DRO) ND 50 mg/kg

LCS (BEA0050-BS1)

Prepared & Analyzed: 01/06/21

C10-C28 (DRO) 571 50 mg/kg 500 114 70-130

Matrix Spike (BEA0050-MS1)

Source: 2101037-01

Prepared & Analyzed: 01/06/21

C10-C28 (DRO) 521 50 mg/kg 500 16.0 101 70-130

Matrix Spike Dup (BEA0050-MSD1)

Source: 2101037-01

Prepared & Analyzed: 01/06/21

C10-C28 (DRO) 522 50 mg/kg 500 16.0 101 70-130 0.193 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schaefer Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/07/21 14:19

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference