FORM
27
Rev 6/99

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State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY
Document 2142900
Received 4/24/2015
REM 9020

OGCC Employee:
☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☑ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe):

OGCC Operator Number: 100322
Name of Operator: Noble Energy Inc.
Address: 2/11/14
City: 2/20/14 State: 4/8/2014 Zip: 2/11/14

Contact Name and Telephone:
2/20/14
No: 2/20/14
Fax: Jacob Evans

API Number: Senior Environmental Specialist
Facility Name: Brown
Well Name: Brown
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 24, T4N, R66W, 6PM

County: 4/8/2014
Facility Number: 247032
Well Number: 34-24
Latitude: 40.291 Longitude: -104.722

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Condensate

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☑ Y ☐ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Irrigated and cultivated

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Topsoil underlain by sandy clay to at least 11'

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 1220' north to well (irrigation), 1,600' west to well (irrigation)

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
☑ Soils	50' x 85'	Excavation
☐ Vegetation		
☑ Groundwater	encountered in excavation, exceeds COGCC limits	Collected 1 sample from excavation
☐ Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Facility was taken out of service, see Form 19 previously submitted. Document # 247032

Describe how source is to be removed:

Excavation was completed between February 11 and 20, 2014. Photoionization detector (PID) was used for field screening of wall samples with confirmation analyses by eAnalytics Lab of Loveland, CO. Approximately 2,170 cubic yards of impacted soil were removed. See attached Excavation Report dated 3/23/14.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Excavation was conducted to remove impacted soils which were then transported offsite to Waste Management's Buffalo Ridge landfill in Keenesburg, CO landfill as non-hazardous waste. One ground water sample from excavation indicated elevated BTEX constituents greater than COGCC Table 910-1 limits.

Submit Page 2 with Page 1

FORM
27
Rev 6/99

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State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax:(303)894-2109

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☐ N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2/11/14	Date Site Investigation Completed: 2/20/14	Date Remediation Plan Submitted: 4/8/2014
Remediation Start Date: 2/11/14	Anticipated Completion Date: 2/20/14	Actual Completion Date: 2/20/14

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jacob Evans Signed: Jacob Evans

Digitally signed by: Jacob Evans
DN: CN = Jacob Evans C = AD O = Noble Energy Inc.
Date: 2014.04.08 14:20:33 -06'00'

Title: Senior Environmental Specialist Date: 4/8/2014

OGCC Approved: Robert H. Chesson

Digitally signed by Robert H. Chesson
DN: cn=Robert H. Chesson, o=Colorado Oil and Gas Conservation Commission, ou, email=robert.chesson@state.co.us, c=US
Date: 2015.04.24 14:08:43 -06'00'

Title: EPS Date: 4/24/2015

FREMONT ENVIRONMENTAL INC.

March 23, 2014

Mr. Jacob Evans
Noble Energy
1625 Broadway, Suite 2000
Denver, CO 80202

Subject: **Excavation Report**
Brown 34-24
API # 05-123-14829
Weld County, Colorado
Fremont Project No. C014-007
Facility #247032

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Excavation Report for the Brown 34-24 release site in Weld County, Colorado. The enclosed report describes excavation actions to remove impacted soil from the site. 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

Enclosure

12061 PENNSYLVANIA STREET, SUITE B-101, THORNTON, CO 80241
(303) 956-8714 (DIRECT), (303) 920-3520 (FAX)

EXCAVATION REPORT

NOBLE ENERGY INC.

BROWN 34-24

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C014-007

FACILITY #247032

Prepared by:

Fremont Environmental Inc.
12061 Pennsylvania Street, Suite B-101
Thornton, CO 80241
(303) 956-8714

March 23, 2014

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EXCAVATION REPORT

NOBLE ENERGY INC.

BROWN 34-24

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C014-007

FACILITY #247032

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of petroleum-impacted soil at the Brown 34-24 release location in Weld County, Colorado. This seven day excavation project was completed between February 11 and 20, 2014.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Brown 34-24 site is located approximately three miles east of Gilcrest, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area 0.5 miles northwest of the intersection of County Road 37 and County Road 42. The location is further described as the SW ¼ of the SE ¼ of Section 24, Township 4N, Range 66W.

2.2 Site History

The site consists of the separator and water vault for the Brown 34-24 natural gas well. The well was drilled in 1991 to a depth of approximately 7,355 feet. Soil impacts were recently identified at the facility after the failure of one of the dump lines between the separator and water vault. This failure initiated this excavation effort.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of petroleum-impacted soil at this site. Ground water was encountered in the excavation at a depth of approximately five feet; therefore, only three floor soil samples were collected during the course of this work. In addition, one ground water sample was collected. The soil consisted of roadbase or topsoil which was underlain by sandy clay to a depth of approximately 11 feet. The excavated area is shown on Figure 2.

Excavation was initiated near the former water vault in the center of the overall dig on February 11, 2014 and continued east. Excavation continued to the east and then south until clean sidewalls were encountered on both sides of the dig. The soil removal then continued westward and then north until the extent of impact was completely identified and removed on February 20, 2014.

A total of 2,170 cubic yards of petroleum impacted soil were removed by B&G Oilfield Services Inc. from the location over a seven day period. The impacted soil was disposed of at the Waste Management Inc. Buffalo Ridge landfill in Keenesburg, Colorado as non-hazardous waste.

A photoionization detector (PID) was used to field screen soil samples during the excavation. The instrument was calibrated with a 100 ppm isobutylene standard. Based on the field screening results, 15 soil samples were collected from the side walls and floor of the excavation to confirm that impacted soil had been removed. The laboratory analyses indicated that all of these samples had concentrations that were less than the Colorado Oil and Gas Conservation Commission (COGCC) limits.

The sidewall samples were collected as grab samples near the lower portion of the excavation wall at depths of five to eight feet. The water table was present at a depth of

approximately five feet; however, ground water only seeped into the excavation which allowed the soil to be removed to a greater depth. As noted above, only three floor samples were collected due to the presence of ground water in the bottom of the excavation. One ground water sample was collected during the excavation.

The soil samples were analyzed by eAnalytics Laboratory, Inc. of Loveland, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) by EPA method 8260C, 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 laboratory data is included in Table 1. This table shows the PID value and laboratory analyses for each soil sample. In addition, a column stating whether the laboratory analyses passed or failed the COGCC limits is provided. The laboratory analyses indicated that all of the 15 soil samples collected from the sidewalls and floor achieved the COGCC Table 910-1 limits. As noted above, one ground water sample was collected on the first day of excavation and submitted to the laboratory. As shown in Table 2, the BTEX concentrations in this sample exceeded the COGCC Table 910-1 limits for benzene, toluene and xylenes.

Gypsum was placed at the water table during backfilling to promote biodegradation of any residual petroleum in the soil and ground water. Gypsum, which is also known as hydrated calcium sulfate, releases sulfate into the ground water which can enhance anaerobic biodegradation of petroleum constituents. Above the gypsum layer, the excavation was backfilled with clean soil and compacted.

A daily summary of the excavation work is provided below:

February 11, 2014 (Day 1) – Excavation of the impacted area was initiated near the location of the former water vault and continued to the east. Petroleum impacted soil was present to a depth of approximately 11 feet; ground water was observed in the excavation. The soil consisted of sandy clay. Approximately 260 cubic yards of impacted soil were removed using a track excavator and transported to the landfill.

One wall sample (1-16') was collected and submitted to the laboratory. This wall sample defined the eastern extent of the overall excavation. A ground water sample was collected from the excavation and submitted to the laboratory for BTEX analyses. Benzene, toluene and xylenes all exceeded the COGCC Table 910-1 limits with concentrations of 1,033, 4,685 and 8,999 ug/L, respectively. The ground water data is presented in Table 2.

February 12, 2014 (Day 2) – Excavation continued to the south and then west as the entire southern extent of impacts was identified. In the afternoon, work continued on the north end of previous day's work.

Three wall samples (2-5', 3-6' and 4-7') were collected and submitted to the laboratory. These wall samples defined the southern, southeastern and eastern extent of the overall excavation. One floor sample (A-11') was also collected and defined the vertical extent of impacts. Approximately 350 cubic yards of impacted soil were removed and transported to the landfill. The locations of the soil samples are illustrated on Figure 2. The PID values and laboratory analyses are provided on Table 1.

February 13, 2014 (Day 3) – Excavation continued to the west from the previous day's work. Approximately 400 cubic yards of impacted soil were removed and transported to the landfill.

One wall sample (5-7′) and one floor sample (B-11′) were collected and submitted to the laboratory. This wall sample defined the southwestern extent of the overall excavation.

February 14, 2104 (Day 4) – Excavation continued towards the southwestern corner to the south while paralleling DCP's flow line. DCP personnel were present during excavation of their line to ensure no damage occurred. Much of this excavation work was conducted in the landowner's cornfield.

One wall sample (6-8′) was collected and submitted to the laboratory. This wall sample helped define the western extent of the overall excavation. Approximately 190 cubic yards of impacted soil were removed and transported to the landfill. The location of the soil sample is illustrated on Figure 2. The PID values and laboratory analyses are provided on Table 1.

February 18, 2014 (Day 5) – Soil removal continued to the south while maintaining a clean sidewall along the western limits of excavation. One wall sample (7-7′) was collected and submitted to the laboratory. This wall sample also helped define the southwestern extent of the overall excavation. Approximately 250 cubic yards of impacted soil were removed and transported to the landfill. The locations of the soil samples are illustrated on Figure 2. The PID values and laboratory analyses are provided on Table 1.

February 19, 2014 (Day 6) – Excavation continued to the north from the previous excavation and just south of the bermed separator area along the DCP pipeline. Soil

removal continued from east to west while maintaining a clean northern wall based on PID readings. Three wall samples (8-7, 9-8′ and 10-7′) were collected and submitted to the laboratory. Approximately 540 cubic yards of impacted soil were removed and transported to the landfill. The locations of the soil samples are illustrated on Figure 2. The PID values and laboratory analyses are provided on Table 1.

February 20, 2014 (Day 7, Final Day) – Excavation continued to the northwest from the previous day's work. This work was also conducted mostly in the cornfield. Two side wall samples (11-8′ and 12-8′) were collected and submitted to the laboratory. Approximately 180 cubic yards of impacted soil were removed and transported to the landfill. The locations of the soil samples are illustrated on Figure 2. The PID values and laboratory analyses are provided on Table 1.

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 excavation sidewalls and floor which were below the COGCC Table 910-1 concentrations. Approximately 2,170 cubic yards of impacted soil were removed and transported to the landfill.

Ground water was encountered during excavation and a sample was collected and analyzed for BTEX. Benzene, toluene and xylenes all exceeded the COGCC Table 910-1 limits with concentrations of 1,033, 4,685 and 8,999 ug/L, respectively.

Since this water sample had concentrations of BTEX that exceeded the COGCC limits, monitoring wells will need to be installed at this site to delineate the horizontal extent of ground water impacts. Installation and monitoring of the wells will be discussed in separate reporting.

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.**

3/23/14

_____ Date_____

Wayne Austin
Construction Consultant
Reviewed by:

3/23/14

_____ Date_____

Paul V. Henehan, P.E.
Senior Consultant

TABLE

TABLE 1

SUMMARY OF SOIL CHEMISTRY DATA

NOBLE ENERGY INC.

BROWN 34-24, WELD COUNTY, COLORADO

FREMONT PROJECT NO. C014-007

Sample	Depth (ft)	Date Sampled	Location	Pass or Fail	PID (ppm)	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	Naphth-alene mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
A-11'	11	2/11/2014	Floor	Pass	34	<0.01	0.034	<0.01	0.097	<0.01	<50	<50
1-6'	6	2/11/2014	Sidewall	Pass	2	<0.01	<0.01	<0.01	0.037	<0.01	<50	<50
2-5'	5	2/12/2014	Sidewall	Pass	1	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
3-6'	6	2/12/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
4-7'	7	2/12/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
B-10'	10	2/12/2014	Floor	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
5-7'	7	2/13/2014	Sidewall	Pass	5	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
C-10'	10	2/13/2014	Floor	Pass	3	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
6-8'	8	2/14/2014	Sidewall	Pass	2	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
7-7'	7	2/18/2014	Sidewall	Pass	3	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
8-7'	7	2/19/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
9-8'	8	2/19/2014	Sidewall	Pass	17	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
10-7'	7	2/19/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
11-8'	8	2/20/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
12-8'	8	2/20/2014	Sidewall	Pass	0	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<50
COGCC Table 910 Limits						0.17	85	100	175	23	500	500

Bold faced values exceed the COGCC Table 910-1 concentrations

TABLE 2

SUMMARY OF GROUND WATER CHEMISTRY DATA

NOBLE ENERGY INC.

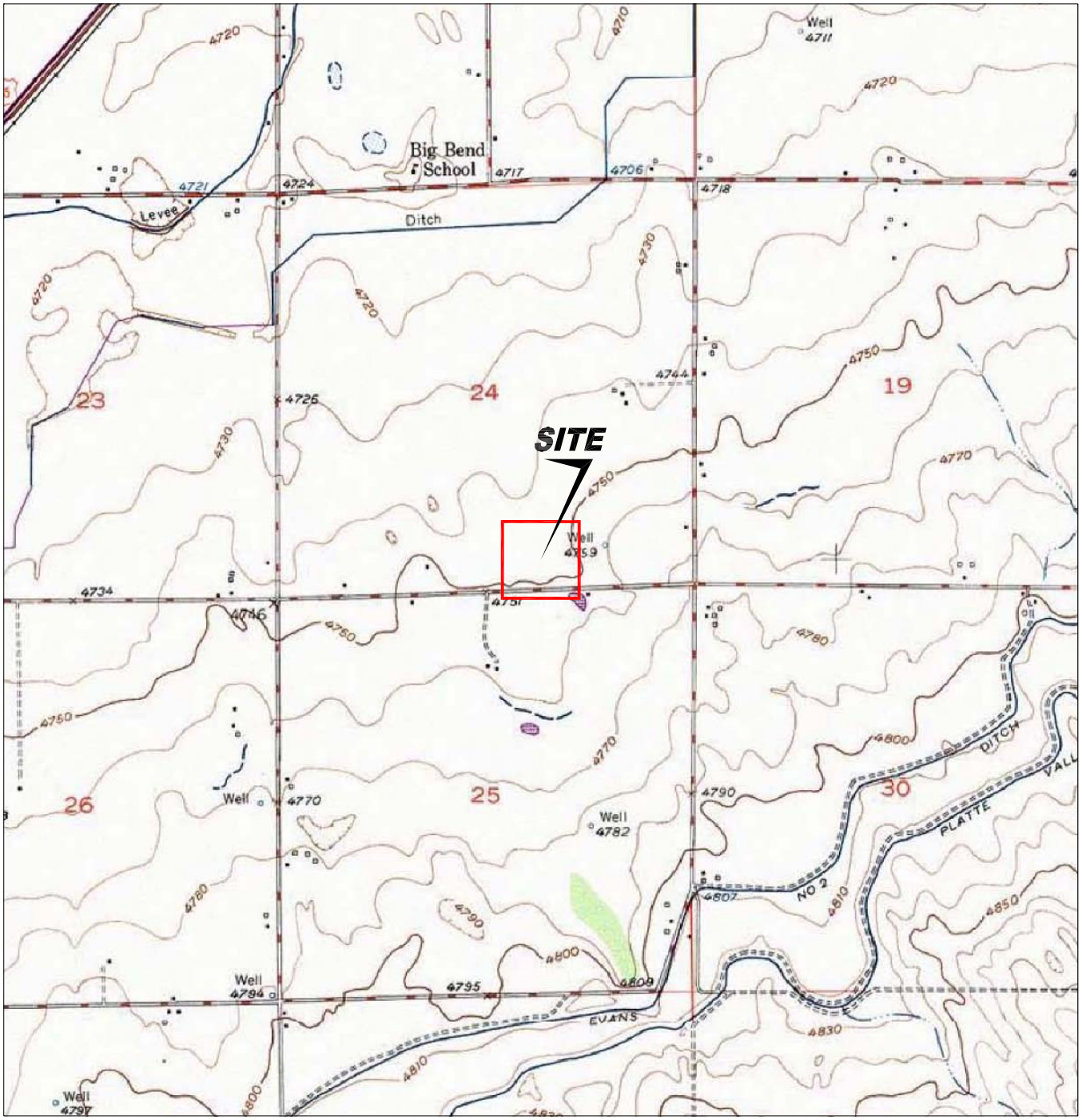
BROWN 34-24, WELD COUNTY, COLORADO

FREMONT PROJECT NO. C014-007

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
GW-1 at 11'	02/11/14	**1033**	**4685**	587	**8999**
Table 910-1 Limits		5	560	700	1,400

Bold face values exceed the COGCC limits

FIGURES



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 Brown 34-24
SW SE Section 24, T4N, R66W
Weld County, Colorado

Project No.	Prepared by	Drawn by
C014-007		JMA
Date	Reviewed by	Filename
2/26/14		14007T

FREMONT ENVIRONMENTAL

LEGEND

- WELL LOCATION
- FENCE LINE
- PIPELINE
- BERM
- ABOVE GROUND STORAGE TANK
- SOIL SAMPLE LOCATION

Figure 2
SITE MAP

Noble Brown 34-24
SW SE Section 24, T4N, R66W
Weld County, Colorado

Project No.	Prepared by	Drawn by
C014-007		JMA
Date	Reviewed by	Filename
3/3/14		14007Q

FREMONT ENVIRONMENTAL

APPENDIX A

LABORATORY DOCUMENTATION

Test Report

eANALYTICS
LABORATORY

February 12, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	722
Date Samples Received:	2/11/2014
Number of Samples:	4
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

A2LA ACCREDITED

Proudly certified by A2LA & The United States Department of Defense (DoD ELAP)

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Fremont Environmental

Project: Brown 34-24 C014-007

Project Manager: Paul Henehan

Sampler: Wayne Austin

Phone/Email: 303-956-8714

Address: P.O. Box 1289

Wellington CO 80549

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	GW-1 @ 11'	2/11 AM/PM	2	W	4						
Rush 2	1739 ppm	" AM/PM	1	S		8	8				
3	A-11'	" AM/PM	1	S		8	8				
4	1-6'	" AM/PM	1	S		8	8				

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- (✓) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	Ice / None	Acid / Other

Record of Custody

Relinquished by: Wayne A Date 2/11

Company: FREMONT ENVIRONMENTAL Time 15:45 AM/PM

Received by: Date

Company: Time AM/PM

Relinquished by: Date

Company: Time AM/PM

Received by: Date 2/11/14

Company: eANALYTICS Time 15 45 AM/PM

WO # 722

eANALYTICS: Environmental testing made Easy

Page 1 of 1

eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
A-11'	< 0.01	**0.034**	< 0.01	**0.097**	< 0.01	< 50	< 50	02/11/14	02/12/14	722	3
1-6'	< 0.01	< 0.01	< 0.01	**0.037**	< 0.01	< 50	< 50	02/11/14	02/12/14	722	4

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
A-11'	104	109	100	94	02/11/14	02/12/14	722	3
1-6'	102	100	106	91	02/11/14	02/12/14	722	4

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	92	100	90	101	89	100	91	02/12/14	LCS	722 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	MB	722 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS
LABORATORY

February 12, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	722
Date Samples Received:	2/11/2014
Number of Samples:	4
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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Proudly certified by A2LA & The United States Department of Defense (DoD ELAP)

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company: Fremont Environmental
Project: Brown 34-24 C014-007
Project Manager: Paul Henehan
Sampler: Wayne Austin
Phone/Email: 303-956-8714
Address: P.O. Box 1289
Wellington CO 80549

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix:(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	GW-1 @ 11'	2/11 AM/PM	2	W	4						
Rush 2	1739 ppm	" AM/PM	1	S		8	8				
3	A-11'	" AM/PM	1	S		8	8				
4	1-6'	" AM/PM	1	S		8	8				

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- ☑ Normal (5-10 Days)
- ○ 3 Day (1.25x)
- ○ 2 Day (1.5x)
- ○ 1 Day (2x)
- ○ Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	Ice / None	Acid / Other

Record of Custody

Relinquished by:	Wayne A	Date 2/11
Company:	FREMONT ENVIRONMENTAL	Time 15:45 AM/PM
Received by:		Date
Company:		Time AM/PM
Relinquished by:		Date
Company:		Time AM/PM
Received by:		Date 2/11/14
Company:	eANALYTICS	Time 15 45 AM/PM

WO # 722

eANALYTICS: Environmental testing made Easy

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eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	Napth-thalene mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	Date Sampled	Date Analyzed	Lab ID	
1739 PPM	**0.116**	**0.040**	**3.09**	**12.5**	**0.367**	**156**	**57.9**	02/11/14	02/11/14	722	2

eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl-benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID	
GW-1 @ 11'	**1033**	**4685**	**587**	**8999**	02/11/14	02/11/14	722	1

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
1739 PPM	100	95	96	107	02/11/14	02/11/14	722 2

Water
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
GW-1 @ 11'	99	105	95	98	02/11/14	02/11/14	722 1

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	104	103	92	97	90	100	103	02/11/14	LCS	722 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/11/14	MB	722 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	722
Project:	Brown 34-24		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Date Analyzed		Lab ID	
	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	102	103	95	90	02/11/14	LCS	722	1
(70-130%)								
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	02/11/14	MB	722	1
	ug/L	ug/L	ug/L	ug/L				

Test Report

eANALYTICS
LABORATORY

February 17, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	726
Date Samples Received:	2/12/2014
Number of Samples:	4
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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CLIENT INFORMATION
(*New Clients please fill out completely)

Company: Fremont Environmental
Project: Brown 34-24 C014-007
Project Manager: Paul Henehan
Sampler: Wayne Austin
Phone/Email: 303-956-8714
Address: P.O. Box 1289
Wellington CO 80549

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix:(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	2-5'	2/12 AM/PM	1	S		8	8				
2	3-6'	" AM/PM	1	S		8	8				
3	4-7'	" AM/PM	1	S		8	8				
4	B-10'	" AM/PM	1	S		8	8				
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- ☑ Normal (5-10 Days)
- ○ 3 Day (1.25x)
- ○ 2 Day (1.5x)
- ○ 1 Day (2x)
- ○ Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	Ice	Acid
	None	Other

Record of Custody

Relinquished by: Wayne Austin Date 2/12
Company: FREMONT ENVIRONMENTAL Time 7:40 AM (M)
Received by: Date
Company: Time AM/PM
Relinquished by: Date
Company: Time
Received by: Date 2-14 AM/PM
Company: eANALYTICS Time 7:40 AM/PM

WO # 726

eANALYTICS: Environmental testing made Easy

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eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	726
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
2-5'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	02/12/14	726	3
3-6'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	02/12/14	726	4
4-7'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	02/12/14	726	5
B-10'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	02/12/14	726	6

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	726
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
2-5'	91	98	97	104	02/12/14	02/12/14	726	3
3-6'	86	109	107	93	02/12/14	02/12/14	726	4
4-7'	100	89	95	93	02/12/14	02/12/14	726	5
B-10'	109	106	86	96	02/12/14	02/12/14	726	6

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	726
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	92	100	90	101	89	100	91	02/12/14	LCS	726 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/12/14	MB	726 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS
LABORATORY

February 17, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	731
Date Samples Received:	2/13/2014
Number of Samples:	2
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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CLIENT INFORMATION
(*New Clients please fill out completely)

Company: Fremont Environmental
Project: Brown 34-24 C014-007
Project Manager: Paul Henehan
Sampler: Wayne
Phone/Email: 303-956-8714
Address: P.O. Box 1289
Wellington CO 80549

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	C-10'	2-13 AM/PM				x	x				
2	5-7'	2-13 AM/PM				x	x				
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- (x) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	Ice / None	Acid / Other

Record of Custody

Relinquished by: Wayne Austin — Date 2/13 — Time 14:00 AM/PM
Company: FREMONT ENVIRONMENTAL
Received by: — Date — Time AM/PM
Company:
Relinquished by: — Date — Time AM/PM
Company:
Received by: — Date 2/13/14 — Time 1400 AM/PM
Company: eANALYTICS

WO # 731

eANALYTICS: Environmental testing made Easy

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eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	731
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
C-10'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/13/14	02/13/14	731	1
5-7'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/13/14	02/13/14	731	2

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	731
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
C-10'	91	110	102	111	02/13/14	02/13/14	731	1
5-7'	99	90	107	99	02/13/14	02/13/14	731	2

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	731
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	94	100	95	102	102	103	93	02/13/14	LCS	731 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/13/14	MB	731 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS LABORATORY

February 18, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	743
Date Samples Received:	2/14/2014
Number of Samples:	1
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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CLIENT INFORMATION
(*New Clients please fill out completely)

Company: Fremont Environmental
Project: Brown 34-24 C014-007
Project Manager: Paul Henehan
Sampler: Wayne Austin
Phone/Email: 303-956-8714
Address: P.O. Box 1289
Wellington CO 80549

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix:(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	6-8'	2-14 AM / PM	1	S		8	8				
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									
		AM / PM									

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- (✓) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	Ice / None	Acid / Other

Record of Custody

Relinquished by: Wayne Austin Date 2/14
Company: FREMONT ENVIRONMENTAL Time 14:45 AM / PM
Received by: Date
Company: Time AM / PM
Relinquished by: Date
Company: Time AM / PM
Received by: Date 2/14
Company: eANALYTICS Time 14:45 AM / PM

WO # 743

eANALYTICS: Environmental testing made Easy

Page ___ of ___

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	743
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
6-8'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/14/14	02/17/14	743	1

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	743
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
6-8'	90	96	104	100	02/14/14	02/17/14	743 1

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	743
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	101	99	94	103	95	96	95	02/17/14	LCS	743 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/17/14	MB	743 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS
LABORATORY

February 20, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	759
Date Samples Received:	2/18/2014
Number of Samples:	1
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Fremont Environmental

Project: Brown 34-24 C014-007

Project Manager: Paul Henehan

Sampler: Wayne Austin

Phone/Email: 303-956-8714

Address: P.O. Box 1289

Wellington CO 80549

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	7-7'	2/18 AM/PM	1	S		8	8				

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- (✓) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes)	No
Received Within Temperature Range (2-6°C)	(Yes)	No
Sample Preservative	Ice / None	Acid / Other

Record of Custody

Relinquished by: Wayne Austin Date

Company: FREMONT ENVIRONMENTAL Time

Received by: Date

Company: Time

Relinquished by: Date

Company: Time

Received by: Date 2/18/14

Company: eANALYTICS Time 2:15

WO # 759

eANALYTICS: Environmental testing made Easy

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eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	759
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
7-7'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/18/14	02/19/14	759	1

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	759
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
7-7'	110	98	104	96	02/18/14	02/19/14	759 1

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	759
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	97	91	100	91	89	90	96	02/19/14	LCS	759 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/19/14	MB	759 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS
LABORATORY

February 25, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	787
Date Samples Received:	2/20/2014
Number of Samples:	5
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

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CLIENT INFORMATION (*New Clients please fill out completely)

Company: Fremont Environmental

Project: Brown 34-24 C013-007

Project Manager: Paul Henehan

Sampler: Wayne Austin

Phone/Email: 303-956-8714

Address: P.O. Box 1289

Wellington CO 80549

ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	8-7'	2/19 AM/PM	1	S		X	X				
2	RUSH 9-8'	2/19 AM/PM	1	S		X	X				
3	10-7'	2/19 AM/PM	1	S		X	X				
4	11-8'	2/20 AM/PM	1	S		X	X				
5	12-8'	2/20 AM/PM	1	S		X	X				
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									
		AM/PM									

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- (X) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Next Bus Morning (Noble Pricing)

For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	(Ice) / None	Acid / Other

Record of Custody

Relinquished by: Wayne Austin Date 2/20

Company: FREMONT ENVIRONMENTAL Time 1200 AM/PM

Received by: Date

Company: Time

Relinquished by: Date

Company: Time

Received by: Todd Date 2-20-14

Company: eANALYTICS Time 1200 AM/PM

WO # 787

eANALYTICS: Environmental testing made Easy

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eANALYTICS
LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
8-7'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/19/14	02/24/14	787	1
10-7'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/19/14	02/24/14	787	3
11-8'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/20/14	02/24/14	787	4
12-8'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/20/14	02/24/14	787	5

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
8-7'	100	98	95	103	02/19/14	02/24/14	787	1
10-7'	110	99	88	99	02/19/14	02/24/14	787	3
11-8'	108	91	90	87	02/20/14	02/24/14	787	4
12-8'	100	97	96	105	02/20/14	02/24/14	787	5

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	97	93	93	103	93	93	96	02/24/14	LCS	787 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/24/14	MB	787 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Test Report

eANALYTICS
LABORATORY

February 21, 2014

Client:	Fremont Environmental / Noble Energy
Project:	Brown 34-24
Lab ID:	787
Date Samples Received:	2/20/2014
Number of Samples:	5
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

A2LA ACCREDITED

Proudly certified by A2LA & The United States Department of Defense (DoD ELAP)

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION (*New Clients please fill out completely)

Company: Fremont Environmental

Project: Brown 34-24 C013-007

Project Manager: Paul Henehan

Sampler: Wayne Austin

Phone/Email: 303-956-8714

Address: P.O. Box 1289

Wellington CO 80549

ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX Naphthalene (EPA 8260)	TPH - GRO/DRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	8-7'	2/19 AM/PM	1	S		X	X				
2	RUSH 9-8'	2/19 AM/PM	1	S		X	X				
3	10-7'	2/19 AM/PM	1	S		X	X				
4	11-8'	2/20 AM/PM	1	S		X	X				
5	12-8'	2/20 AM/PM	1	S		X	X				
		AM/PM									
		AM/PM									
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Comments:

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For eANALYTICS Use

Samples Received Intact	(Yes) / No	
Received Within Temperature Range (2-6°C)	(Yes) / No	
Sample Preservative	(Ice) / None	Acid / Other

Record of Custody

Relinquished by: Wayne Austin Date 2/20

Company: FREMONT ENVIRONMENTAL Time 1200 AM/PM

Received by: Date

Company: Time

Relinquished by: Date

Company: Time

Received by: Todd Date 2-20-14

Company: eANALYTICS Time 1200 AM/PM

WO # 787

eANALYTICS: Environmental testing made Easy

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eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
9-8'	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/19/14	02/20/14	787	2

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
9-8'	110	90	108	106	02/19/14	02/20/14	787 2

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	787
Project:	Brown 34-24		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napth-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	96	94	100	92	95	95	98	02/20/14	LCS	787 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	02/20/14	MB	787 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			