

## Executive Summary

On July 3, 2019 Wapiti Operating, LLC had a minor release of produced water. The release happened on the lateral line between the VPR D-81 and VPR D-82. The release resulted in approximately 7 barrels of produced water on the ground. This was due to external corrosion on a 2" vent line underground. The line was isolated, and the vent removed. Due to the benign quality of the produced water soil sampling was not done at the time. To close this report Wapiti has taken 2 composite samples and 1 background sample. See the attached documentation of the samples. The samples have come back well within the criteria of Table 1 Closure Criteria. I am requesting that Incident # NCS2002452136 be closed.



Outlook

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## New Mexico OCD Application Submission was Approved by the OCD

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From OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Date Fri 1/24/2020 2:33 PM

To Randy Madison <RMadison@WapitiEnergy.com>

The Oil Conservation Division (OCD) has approved the application PO: 5C19X-190722-C-1410. The original application was submitted by Randy Madison for Wapiti Operating, LLC.

The user added the additional comment:

""To whom it may concern The OCD has accepted the submitted Initial C-141 and has assigned incident #NCS2002452136. Please retain this incident # as it will be required for all future communication and submittals for this release. Note: As of December 13, 2019, NMOCD has discontinued the use of the "RP" number. Thank you, Cory Smith DIII OCD "

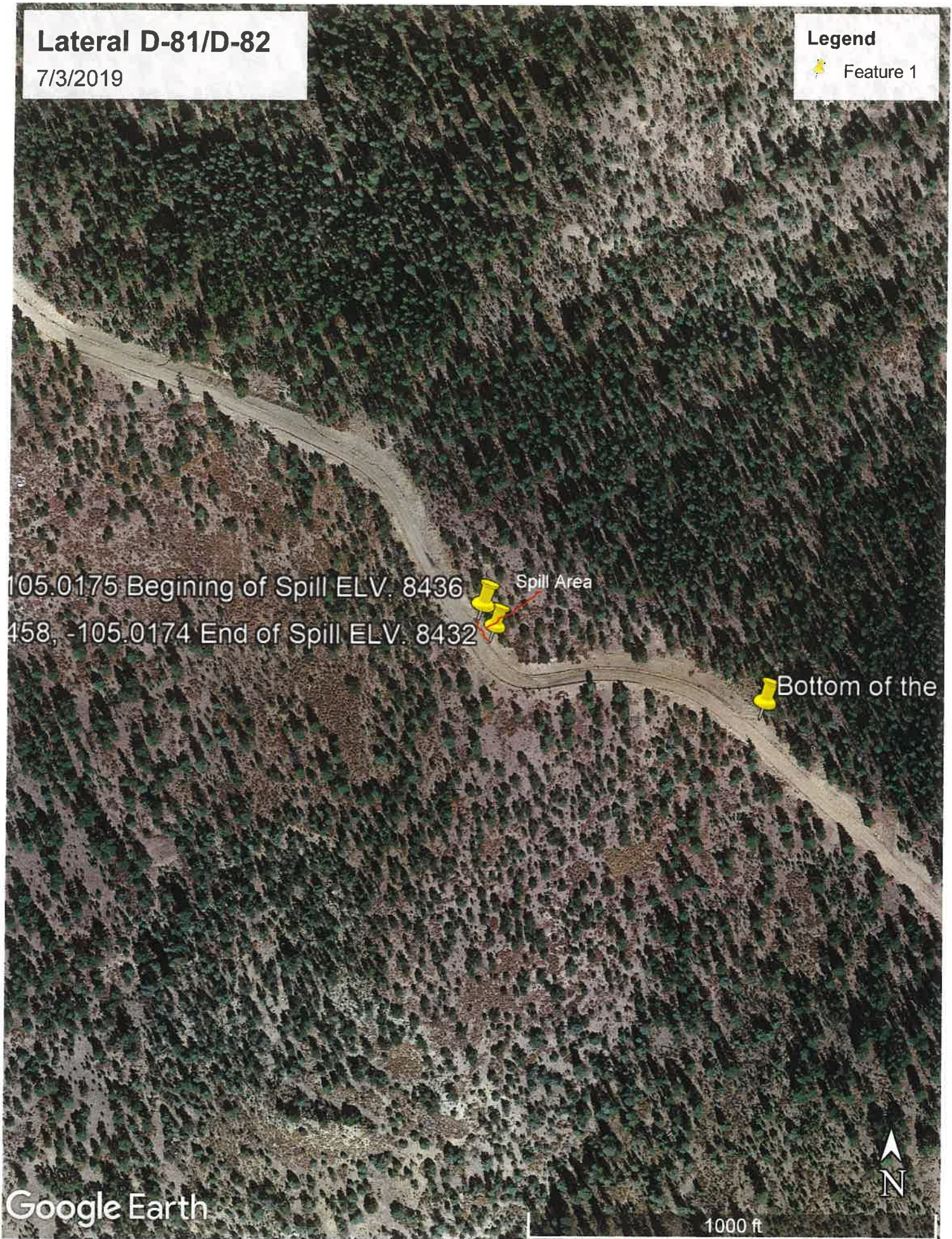
If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

### **New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505







## D-81/D-82 Lateral Spill

2" Vent  
Beginning  
of Spill

Borrow  
Ditch  
2' Wide

240' from

Beginning to End of  
Release

End of Release

V bbl = D' by W' by L'

1" by 2' by 240'

$$\frac{5.62}{1} = 7.117$$

7 barrels

Bottom of Hill













Outlook

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[EXT]: The Oil Conservation Division (OCD) has accepted the application, Application ID: 384157

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From OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Date Tue 9/17/2024 8:15 AM

To Randy Madison <RMadison@WapitiEnergy.com>

\*\*\*\*\* External Email \*\*\*\*\*

To whom it may concern (c/o Randy Madison for Wapiti Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nCS2002452136.

The sampling event is expected to take place:

**When:** 09/24/2024 @ 10:00

**Where:** B-15-30N-18E 0 FNL 0 FEL (36.840578,-105.13255)

**Additional Information:** Please contact me at 1-575-420-1120

**Additional Instructions:** Hunting restrictions are in place we can not go on the property before 0900 hrs.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505





[EXT]: The Oil Conservation Division (OCD) has accepted the application, Application ID: 386808

From OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Date Wed 9/25/2024 1:17 PM

To Randy Madison <RMadison@WapitiEnergy.com>

\*\*\*\* External Email \*\*\*\*

To whom it may concern (c/o Randy Madison for Wapiti Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nCS2002452136.

The sampling event is expected to take place:

**When:** 10/01/2024 @ 10:00

**Where:** B-15-30N-18E 0 FNL 0 FEL (36.840578,-105.13255)

**Additional Information:** This is to sample the area previously cancelled.

**Additional Instructions:** Hunting restrictions are in place and we cannot go on the property before 0900 hrs.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

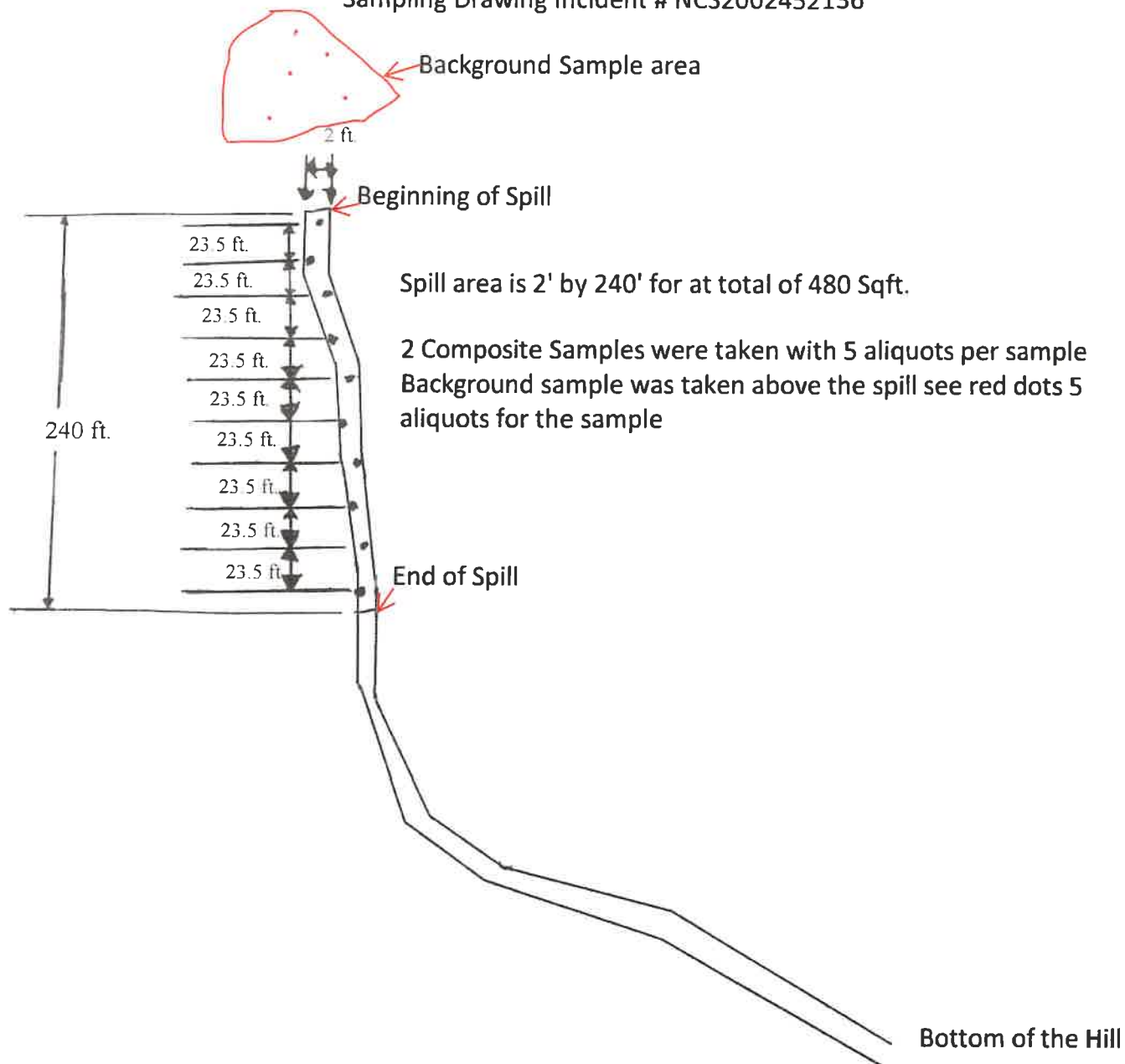
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

## Sampling Drawing Incident # NCS2002452136



Blue dots represent location of aliquots for samples











































Background Sample 10-1-24





**TABLE 1      Location: \_D-81 /D-82 Lateral NCS2002452\_**  
**SOIL SAMPLE ANALYTICAL RESULTS**

**Notes:**

DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbons.

Comments: \_\_\_\_\_

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Randy Madison  
Wapiti Operating LLC  
309 Silver Street  
PO BOX 190  
Raton, New Mexico 87740

Generated 10/16/2024 9:39:31 AM

## JOB DESCRIPTION

Lateral D-81 / D-82

## JOB NUMBER

280-197434-1

Eurofins Denver  
4955 Yarrow Street  
Arvada CO 80002

See page two for job notes and contact information.





# Eurofins Denver

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

## Authorization



Generated  
10/16/2024 9:39:31 AM

Authorized for release by  
Shelby McCabe, Project Manager I  
[Shelby.McCabe@et.eurofinsus.com](mailto:Shelby.McCabe@et.eurofinsus.com)  
(303)736-0165



Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Laboratory Job ID: 280-197434-1

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## Definitions/Glossary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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## Case Narrative

Client: Wapiti Operating LLC  
Project: Lateral D-81 / D-82

Job ID: 280-197434-1

Job ID: 280-197434-1

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**Job Narrative  
280-197434-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 10/2/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

**Receipt Exceptions**

The following samples were received with labels affixed to their pre-tared MeOH preserved Terracore containers: Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3). Results could potentially be biased low due to the elevated measurement of sample weight; therefore, pre-tared Terracore containers should not get labels affixed on them. The analysts will attempt to remove the labels prior to analysis where possible, however, this cannot be guaranteed.

**Method 8260D - Volatile Organic Compounds by GC/MS**

Samples Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 10/1/2024 and analyzed on 10/9/2024.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-670309 and analytical batch 280-670269. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

**Method 8015D - Gasoline Range Organics (GRO) (GC)**

Samples Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3) were analyzed for Gasoline Range Organics (GRO) (GC). The samples were prepared on 10/1/2024 and analyzed on 10/15/2024.

Insufficient sample volume was available to perform a matrix spike and matrix spike duplicate (MS/MSD) associated with preparation batch 280-670982 and analytical batch 280-670980. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

**Method 8015D - Diesel Range Organics (DRO) (GC)**

Samples Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3) were analyzed for Diesel Range Organics (DRO) (GC). The samples were prepared on 10/3/2024 and analyzed on 10/4/2024, 10/5/2024 and 10/8/2024.

Due to the matrix low density with small rocks, an initial volume of five grams instead of fifteen grams was used for the following samples, which deviated from the standard procedure in order to prevent venting and microwave equipment damage in preparation batch 280-669596: Sample #1 (280-197434-1) and Background Sample (280-197434-3). The reporting limits (RLs) have been adjusted proportionately.

Due to the matrix low density and damp, an initial volume of five grams instead of fifteen grams was used for the following samples, which deviated from the standard procedure in order to prevent venting and microwave equipment damage in preparation batch 280-669596: Sample #2 (280-197434-2). The reporting limits (RLs) have been adjusted proportionately.

The surrogate o-Terphenyl in the CCV for analytical batch 280-669997 recovered high outside of acceptance limits. The recovery is within acceptance criteria for the associated samples; therefore, data is being reported

**Method 9056A - Anions, Ion Chromatography - Soluble**

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## Case Narrative

Client: Wapiti Operating LLC  
Project: Lateral D-81 / D-82

Job ID: 280-197434-1

### Job ID: 280-197434-1 (Continued)

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Samples Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3) were analyzed for Anions, Ion Chromatography - Soluble. The samples were leached on 10/8/2024 and analyzed on 10/9/2024.

#### Method Moisture - Percent Moisture

Samples Sample #1 (280-197434-1), Sample #2 (280-197434-2) and Background Sample (280-197434-3) were analyzed for Percent Moisture. The samples were analyzed on 10/3/2024.

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Job ID: 280-197434-1

**Lab Sample ID: 280-197434-1**

**Lab Sample ID: 280-197434-2**

**Lab Sample ID: 280-197434-3**



## Method Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET DEN
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
3546	Microwave Extraction	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN
DI Leach	Deionized Water Leaching Procedure	ASTM	EET DEN

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver



Sample Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197434-1	Sample #1	Solid	10/01/24 10:15	10/02/24 10:11
280-197434-2	Sample #2	Solid	10/01/24 10:30	10/02/24 10:11
280-197434-3	Background Sample	Solid	10/01/24 10:45	10/02/24 10:11





## Client Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0041		mg/Kg		10/01/24 10:15	10/09/24 12:22	1
Ethylbenzene	ND		0.0041		mg/Kg		10/01/24 10:15	10/09/24 12:22	1
m-Xylene & p-Xylene	ND		0.0020		mg/Kg		10/01/24 10:15	10/09/24 12:22	1
o-Xylene	ND		0.0020		mg/Kg		10/01/24 10:15	10/09/24 12:22	1
Toluene	ND		0.0041		mg/Kg		10/01/24 10:15	10/09/24 12:22	1
Xylenes, Total	ND		0.0041		mg/Kg		10/01/24 10:15	10/09/24 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 140	10/01/24 10:15	10/09/24 12:22	1
4-Bromofluorobenzene (Surr)	100		76 - 127	10/01/24 10:15	10/09/24 12:22	1
Toluene-d8 (Surr)	99		80 - 126	10/01/24 10:15	10/09/24 12:22	1
Dibromofluoromethane (Surr)	101		75 - 121	10/01/24 10:15	10/09/24 12:22	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0044		mg/Kg		10/01/24 10:30	10/09/24 12:42	1
Ethylbenzene	ND		0.0044		mg/Kg		10/01/24 10:30	10/09/24 12:42	1
m-Xylene & p-Xylene	ND		0.0022		mg/Kg		10/01/24 10:30	10/09/24 12:42	1
o-Xylene	ND		0.0022		mg/Kg		10/01/24 10:30	10/09/24 12:42	1
Toluene	ND		0.0044		mg/Kg		10/01/24 10:30	10/09/24 12:42	1
Xylenes, Total	ND		0.0044		mg/Kg		10/01/24 10:30	10/09/24 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		58 - 140	10/01/24 10:30	10/09/24 12:42	1
4-Bromofluorobenzene (Surr)	102		76 - 127	10/01/24 10:30	10/09/24 12:42	1
Toluene-d8 (Surr)	99		80 - 126	10/01/24 10:30	10/09/24 12:42	1
Dibromofluoromethane (Surr)	99		75 - 121	10/01/24 10:30	10/09/24 12:42	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0041		mg/Kg		10/01/24 10:45	10/09/24 13:02	1
Ethylbenzene	ND		0.0041		mg/Kg		10/01/24 10:45	10/09/24 13:02	1
m-Xylene & p-Xylene	ND		0.0021		mg/Kg		10/01/24 10:45	10/09/24 13:02	1
o-Xylene	ND		0.0021		mg/Kg		10/01/24 10:45	10/09/24 13:02	1
Toluene	ND		0.0041		mg/Kg		10/01/24 10:45	10/09/24 13:02	1
Xylenes, Total	ND		0.0041		mg/Kg		10/01/24 10:45	10/09/24 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 140	10/01/24 10:45	10/09/24 13:02	1
4-Bromofluorobenzene (Surr)	101		76 - 127	10/01/24 10:45	10/09/24 13:02	1
Toluene-d8 (Surr)	99		80 - 126	10/01/24 10:45	10/09/24 13:02	1
Dibromofluoromethane (Surr)	99		75 - 121	10/01/24 10:45	10/09/24 13:02	1

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## Client Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.7		mg/Kg		10/01/24 10:15	10/15/24 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		77 - 123				10/01/24 10:15	10/15/24 03:16	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.6		mg/Kg		10/01/24 10:30	10/15/24 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		77 - 123				10/01/24 10:30	10/15/24 03:38	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.7		mg/Kg		10/01/24 10:45	10/15/24 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		77 - 123				10/01/24 10:45	10/15/24 03:59	1

## Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		22		mg/Kg		10/03/24 09:08	10/04/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		40 - 122				10/03/24 09:08	10/04/24 23:46	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		23		mg/Kg		10/03/24 09:08	10/05/24 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		40 - 122				10/03/24 09:08	10/05/24 00:05	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		22		mg/Kg		10/03/24 09:08	10/05/24 00:25	1

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## Client Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: SW846 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		40 - 122	10/03/24 09:08	10/05/24 00:25	1

## Method: SW846 8015D - Diesel Range Organics (DRO) (GC) - RA

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (C20-C38)	ND		67		mg/Kg		10/03/24 09:08	10/08/24 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	112		40 - 122	10/03/24 09:08	10/08/24 01:40	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (C20-C38)	ND		68		mg/Kg		10/03/24 09:08	10/08/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	111		40 - 122	10/03/24 09:08	10/08/24 02:02	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (C20-C38)	ND		67		mg/Kg		10/03/24 09:08	10/08/24 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		40 - 122	10/03/24 09:08	10/08/24 02:24	1

## General Chemistry

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.9		0.1		%			10/03/24 17:19	1
Percent Solids (EPA Moisture)	91.1		0.1		%			10/03/24 17:19	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.5		0.1		%			10/03/24 17:19	1
Percent Solids (EPA Moisture)	87.5		0.1		%			10/03/24 17:19	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.8		0.1		%			10/03/24 17:19	1
Percent Solids (EPA Moisture)	91.2		0.1		%			10/03/24 17:19	1

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## Client Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## General Chemistry - Soluble

Client Sample ID: Sample #1  
Date Collected: 10/01/24 10:15  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			10/09/24 14:34	1

Client Sample ID: Sample #2  
Date Collected: 10/01/24 10:30  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	33		30		mg/Kg			10/09/24 14:45	1

Client Sample ID: Background Sample  
Date Collected: 10/01/24 10:45  
Date Received: 10/02/24 10:11

Lab Sample ID: 280-197434-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			10/09/24 14:23	1

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## Surrogate Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

### Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (58-140)	BFB (76-127)	TOL (80-126)	DBFM (75-121)
280-197434-1	Sample #1	112	100	99	101
280-197434-2	Sample #2	109	102	99	99
280-197434-3	Background Sample	111	101	99	99
LCS 280-670309/2-A	Lab Control Sample	104	104	98	99
LCSD 280-670309/3-A	Lab Control Sample Dup	104	104	93	101
MB 280-670309/1-A	Method Blank	103	103	104	98

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

### Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT1 (77-123)	
280-197434-1	Sample #1	94	
280-197434-2	Sample #2	93	
280-197434-3	Background Sample	94	
LCS 280-670982/1-A	Lab Control Sample	97	
LCSD 280-670982/2-A	Lab Control Sample Dup	100	
MB 280-670982/3-A	Method Blank	95	

#### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

### Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		OTPH (40-122)	
280-197434-1	Sample #1	75	
280-197434-1 - RA	Sample #1	112	
280-197434-2	Sample #2	70	
280-197434-2 - RA	Sample #2	111	
280-197434-3	Background Sample	65	
280-197434-3 - RA	Background Sample	96	
LCS 280-669596/2-A	Lab Control Sample	61	
LCS 280-669596/3-A - RA	Lab Control Sample	90	
MB 280-669596/1-A	Method Blank	64	
MB 280-669596/1-A - RA	Method Blank	93	

#### Surrogate Legend

OTPH = o-Terphenyl

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## QC Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-670309/1-A

Matrix: Solid

Analysis Batch: 670269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 670309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		10/09/24 07:00	10/09/24 11:42	1
Ethylbenzene	ND		0.0050		mg/Kg		10/09/24 07:00	10/09/24 11:42	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		10/09/24 07:00	10/09/24 11:42	1
o-Xylene	ND		0.0025		mg/Kg		10/09/24 07:00	10/09/24 11:42	1
Toluene	ND		0.0050		mg/Kg		10/09/24 07:00	10/09/24 11:42	1
Xylenes, Total	ND		0.0050		mg/Kg		10/09/24 07:00	10/09/24 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 140	10/09/24 07:00	10/09/24 11:42	1
4-Bromofluorobenzene (Surr)	103		76 - 127	10/09/24 07:00	10/09/24 11:42	1
Toluene-d8 (Surr)	104		80 - 126	10/09/24 07:00	10/09/24 11:42	1
Dibromofluoromethane (Surr)	98		75 - 121	10/09/24 07:00	10/09/24 11:42	1

Lab Sample ID: LCS 280-670309/2-A

Matrix: Solid

Analysis Batch: 670269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 670309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0494		mg/Kg		99	75 - 135
Ethylbenzene	0.0500	0.0506		mg/Kg		101	73 - 125
m-Xylene & p-Xylene	0.0500	0.0524		mg/Kg		105	77 - 135
o-Xylene	0.0500	0.0492		mg/Kg		98	75 - 135
Toluene	0.0500	0.0493		mg/Kg		99	77 - 122
Xylenes, Total	0.100	0.102		mg/Kg		102	76 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		58 - 140
4-Bromofluorobenzene (Surr)	104		76 - 127
Toluene-d8 (Surr)	98		80 - 126
Dibromofluoromethane (Surr)	99		75 - 121

Lab Sample ID: LCSD 280-670309/3-A

Matrix: Solid

Analysis Batch: 670269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 670309

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0495		mg/Kg		99	75 - 135	0	20
Ethylbenzene	0.0500	0.0495		mg/Kg		99	73 - 125	2	20
m-Xylene & p-Xylene	0.0500	0.0520		mg/Kg		104	77 - 135	1	20
o-Xylene	0.0500	0.0476		mg/Kg		95	75 - 135	3	20
Toluene	0.0500	0.0477		mg/Kg		95	77 - 122	3	20
Xylenes, Total	0.100	0.0996		mg/Kg		100	76 - 135	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		58 - 140
4-Bromofluorobenzene (Surr)	104		76 - 127
Toluene-d8 (Surr)	93		80 - 126

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## QC Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-670309/3-A

Matrix: Solid

Analysis Batch: 670269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 670309

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		75 - 121

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 280-670982/3-A

Matrix: Solid

Analysis Batch: 670980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 670982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		10/14/24 18:53	10/15/24 01:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		77 - 123	10/14/24 18:53	10/15/24 01:50	1

Lab Sample ID: LCS 280-670982/1-A

Matrix: Solid

Analysis Batch: 670980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 670982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	9.99	8.65		mg/Kg		87	75 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	97		77 - 123

Lab Sample ID: LCSD 280-670982/2-A

Matrix: Solid

Analysis Batch: 670980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 670982

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	9.99	9.66		mg/Kg		97	75 - 135	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	100		77 - 123

## Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-669596/1-A

Matrix: Solid

Analysis Batch: 669844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.0		mg/Kg		10/03/24 09:08	10/04/24 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		40 - 122	10/03/24 09:08	10/04/24 19:53	1

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## QC Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 280-669596/2-A

Matrix: Solid

Analysis Batch: 669844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	133	93.4		mg/Kg		70	40 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	61		40 - 122

## Method: 8015D - Diesel Range Organics (DRO) (GC) - RA

Lab Sample ID: MB 280-669596/1-A

Matrix: Solid

Analysis Batch: 669997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (C20-C38) - RA	ND		24		mg/Kg		10/03/24 09:08	10/07/24 21:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl - RA	93		40 - 122	10/03/24 09:08	10/07/24 21:17	1

Lab Sample ID: LCS 280-669596/3-A

Matrix: Solid

Analysis Batch: 669997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Motor Oil (C20-C38) - RA	334	194		mg/Kg		58	48 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl - RA	90		40 - 122

## Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MRL 280-670295/3

Matrix: Solid

Analysis Batch: 670295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.97		mg/L		99	50 - 150

Lab Sample ID: MB 280-670194/3-A

Matrix: Solid

Analysis Batch: 670295

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		30		mg/Kg			10/09/24 12:55	1

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QC Sample Results

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-670194/1-A  
Matrix: Solid  
Analysis Batch: 670295

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1000	965		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 280-670194/2-A  
Matrix: Solid  
Analysis Batch: 670295

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1000	967		mg/Kg		97	90 - 110	0	10

## QC Association Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## GC/MS VOA

## Analysis Batch: 670269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	8260D	670309
280-197434-2	Sample #2	Total/NA	Solid	8260D	670309
280-197434-3	Background Sample	Total/NA	Solid	8260D	670309
MB 280-670309/1-A	Method Blank	Total/NA	Solid	8260D	670309
LCS 280-670309/2-A	Lab Control Sample	Total/NA	Solid	8260D	670309
LCSD 280-670309/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	670309

## Prep Batch: 670309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	5035	
280-197434-2	Sample #2	Total/NA	Solid	5035	
280-197434-3	Background Sample	Total/NA	Solid	5035	
MB 280-670309/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-670309/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-670309/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## GC VOA

## Analysis Batch: 670980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	8015D	670982
280-197434-2	Sample #2	Total/NA	Solid	8015D	670982
280-197434-3	Background Sample	Total/NA	Solid	8015D	670982
MB 280-670982/3-A	Method Blank	Total/NA	Solid	8015D	670982
LCS 280-670982/1-A	Lab Control Sample	Total/NA	Solid	8015D	670982
LCSD 280-670982/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	670982

## Prep Batch: 670982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	5035	
280-197434-2	Sample #2	Total/NA	Solid	5035	
280-197434-3	Background Sample	Total/NA	Solid	5035	
MB 280-670982/3-A	Method Blank	Total/NA	Solid	5035	
LCS 280-670982/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-670982/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 669596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	3546	
280-197434-1 - RA	Sample #1	Total/NA	Solid	3546	
280-197434-2	Sample #2	Total/NA	Solid	3546	
280-197434-2 - RA	Sample #2	Total/NA	Solid	3546	
280-197434-3	Background Sample	Total/NA	Solid	3546	
280-197434-3 - RA	Background Sample	Total/NA	Solid	3546	
MB 280-669596/1-A	Method Blank	Total/NA	Solid	3546	
MB 280-669596/1-A - RA	Method Blank	Total/NA	Solid	3546	
LCS 280-669596/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 280-669596/3-A - RA	Lab Control Sample	Total/NA	Solid	3546	

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## QC Association Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## GC Semi VOA

## Analysis Batch: 669844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	8015D	669596
280-197434-2	Sample #2	Total/NA	Solid	8015D	669596
280-197434-3	Background Sample	Total/NA	Solid	8015D	669596
MB 280-669596/1-A	Method Blank	Total/NA	Solid	8015D	669596
LCS 280-669596/2-A	Lab Control Sample	Total/NA	Solid	8015D	669596

## Analysis Batch: 669997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1 - RA	Sample #1	Total/NA	Solid	8015D	669596
280-197434-2 - RA	Sample #2	Total/NA	Solid	8015D	669596
280-197434-3 - RA	Background Sample	Total/NA	Solid	8015D	669596
MB 280-669596/1-A - RA	Method Blank	Total/NA	Solid	8015D	669596
LCS 280-669596/3-A - RA	Lab Control Sample	Total/NA	Solid	8015D	669596

## General Chemistry

## Analysis Batch: 669737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Total/NA	Solid	Moisture	
280-197434-2	Sample #2	Total/NA	Solid	Moisture	
280-197434-3	Background Sample	Total/NA	Solid	Moisture	

## Leach Batch: 670194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Soluble	Solid	DI Leach	
280-197434-2	Sample #2	Soluble	Solid	DI Leach	
280-197434-3	Background Sample	Soluble	Solid	DI Leach	
MB 280-670194/3-A	Method Blank	Soluble	Solid	DI Leach	
LCS 280-670194/1-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 280-670194/2-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 670295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197434-1	Sample #1	Soluble	Solid	9056A	670194
280-197434-2	Sample #2	Soluble	Solid	9056A	670194
280-197434-3	Background Sample	Soluble	Solid	9056A	670194
MB 280-670194/3-A	Method Blank	Soluble	Solid	9056A	670194
LCS 280-670194/1-A	Lab Control Sample	Soluble	Solid	9056A	670194
LCSD 280-670194/2-A	Lab Control Sample Dup	Soluble	Solid	9056A	670194
MRL 280-670295/3	Lab Control Sample	Total/NA	Solid	9056A	

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## Lab Chronicle

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

## Client Sample ID: Sample #1

Date Collected: 10/01/24 10:15

Date Received: 10/02/24 10:11

## Lab Sample ID: 280-197434-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.163 g	5 mL	670309	10/01/24 10:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	670269	10/09/24 12:22	JLS	EET DEN
Total/NA	Prep	5035			5.946 g	5 mL	670982	10/01/24 10:15	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	670980	10/15/24 03:16	CCF	EET DEN
Total/NA	Prep	3546			5.4 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D		1			669844	10/04/24 23:46	LKB	EET DEN
Total/NA	Prep	3546	RA		5.4 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D	RA	1			669997	10/08/24 01:40	LKB	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	670194	10/08/24 15:04	IRC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	670295	10/09/24 14:34	EJS	EET DEN
Total/NA	Analysis	Moisture		1			669737	10/03/24 17:19	AKF	EET DEN

## Client Sample ID: Sample #2

Date Collected: 10/01/24 10:30

Date Received: 10/02/24 10:11

## Lab Sample ID: 280-197434-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.692 g	5 mL	670309	10/01/24 10:30	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	670269	10/09/24 12:42	JLS	EET DEN
Total/NA	Prep	5035			6.338 g	5 mL	670982	10/01/24 10:30	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	670980	10/15/24 03:38	CCF	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D		1			669844	10/05/24 00:05	LKB	EET DEN
Total/NA	Prep	3546	RA		5.3 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D	RA	1			669997	10/08/24 02:02	LKB	EET DEN
Soluble	Leach	DI Leach			10.00 g	100 mL	670194	10/08/24 15:04	IRC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	670295	10/09/24 14:45	EJS	EET DEN
Total/NA	Analysis	Moisture		1			669737	10/03/24 17:19	AKF	EET DEN

## Client Sample ID: Background Sample

Date Collected: 10/01/24 10:45

Date Received: 10/02/24 10:11

## Lab Sample ID: 280-197434-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.09 g	5 mL	670309	10/01/24 10:45	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	670269	10/09/24 13:02	JLS	EET DEN
Total/NA	Prep	5035			5.879 g	5 mL	670982	10/01/24 10:45	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	670980	10/15/24 03:59	CCF	EET DEN
Total/NA	Prep	3546			5.4 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D		1			669844	10/05/24 00:25	LKB	EET DEN
Total/NA	Prep	3546	RA		5.4 g	1 mL	669596	10/03/24 09:08	JC	EET DEN
Total/NA	Analysis	8015D	RA	1			669997	10/08/24 02:24	LKB	EET DEN
Soluble	Leach	DI Leach			10.01 g	100 mL	670194	10/08/24 15:04	IRC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	670295	10/09/24 14:23	EJS	EET DEN
Total/NA	Analysis	Moisture		1			669737	10/03/24 17:19	AKF	EET DEN

Eurofins Denver



## Lab Chronicle

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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## Accreditation/Certification Summary

Client: Wapiti Operating LLC  
Project/Site: Lateral D-81 / D-82

Job ID: 280-197434-1

### Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24 *
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver



Environment Testing  
TestAmerica

4955 Yarrow Street  
Arvada, CO 80002  
Phone (303) 736-0100 Fax (303) 431-7171

## Chain of Custody Record

[illegible]

Ver: 01/16/2019

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

## Login Sample Receipt Checklist

Client: Wapiti Operating LLC

Job Number: 280-197434-1

Login Number: 197434

List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	False	Labels affixed to MeOH pre-tared terracore vials
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS

Action 400002

QUESTIONS

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nCS2002452136
Incident Name	NCS2002452136 D-81 & D82 LATERAL @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	D-81 & D82 LATERAL
Date Release Discovered	07/03/2019
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 7 BBL   Recovered: 0 BBL   Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 400002

**QUESTIONS (continued)**

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Randy Madison Email: <a href="mailto:rmadison@wapitienergy.com">rmadison@wapitienergy.com</a> Date: 11/06/2024
--	--



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QUESTIONS, Page 3

Action 400002

**QUESTIONS (continued)**

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	33
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	92.6
GRO+DRO (EPA SW-846 Method 8015M)	24.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/01/2024
On what date will (or was) the remediation complete(d)	10/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 400002

**QUESTIONS (continued)**

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	All soil left in place
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Randy Madison Email: <a href="mailto:rmadison@wapitienergy.com">rmadison@wapitienergy.com</a> Date: 11/06/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5

Action 400002

QUESTIONS (continued)

Operator:  Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID:  328741
	Action Number:  400002
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 400002

**QUESTIONS (continued)**

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	386808
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/01/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	480

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No additional Activities

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Randy Madison Email: rmadison@wapitienergy.com Date: 11/06/2024
--	---



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Action 400002

QUESTIONS (continued)

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 400002

CONDITIONS

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 400002
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	2/21/2025