

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Wapiti Operating, LLC	OGRID: 328741
Contact Name: Randy L. Madison	Contact Telephone: 575-445-6706
Contact email: rmadison@wapitienergy.com	Incident # (assigned by OCD)
Contact mailing address: P.O.Box 190, 309 Silver St, Raton, NM 87740	

Location of Release Source

Latitude: N 36.93350

Longitude: W 104.88600

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: 8" Waterline	Site Type: Produced Water Line
Date Release Discovered: 4/8/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	11	31N	19E	Colfax

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Vermejo Park Ranch)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls): 700	Volume Recovered (bbls): 670
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Coal Fines and Hydrocarbons	Volume/Weight Released (provide units) 2 Barrels	Volume/Weight Recovered (provide units) 2 Barrels

Cause of Release:

8" Poly produced water line pressured up due to an injection pump failure. The line separated on the side causing about a 6' split.

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State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?
The volume of the release and the fact that it was produced water, coal fines, and hydrocarbons.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Randy Madison notified, Samantha McFall, Monica Kuehling, and Rosa Romero. This took was done at 1300 on 4-9-23. Phone calls were attempted and messages left. E-Mail was sent to all three parties.

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Randy L. Madison Title: HSE & Regulatory Specialist, Sr.

Signature:  Date: 4/11/23

email: rmadison@wapitienergy.com Telephone: 1-575-445-6706

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2310135941
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?

25 (ft
bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico

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Oil Conservation Division

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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.

Printed Name: Randy L. Madison _____ Title: HSE & Regulatory Specialist, Sr. _____

Signature:  _____ Date: 8/21/23 _____

email: _rmadison@wapitienergy.com_ Telephone: _575-445-6706_

OCD Only

Received by: Shelly Wells _____ Date: 8/22/2023 _____

Incident ID	NAPP2310135941
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Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Randy L. Madison Title: HSE & Regulatory Specialist, Sr.

Signature:  Date: 8/21/23

email: _rmadison@wapitienergy.com Telephone: _575-445-6706

OCD Only

Received by: Shelly Wells Date: 8/22/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2310135941
District RP	
Facility ID	
Application ID	

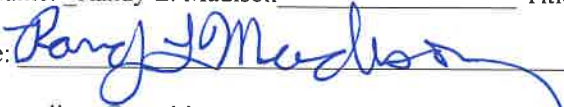
Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Randy L. Madison Title: HSE & Regulatory Specialist, Sr.
Signature:  Date: 8/21/23
email: rmadison@wapitienergy.com Telephone: 575-445-6706

OCD Only

Received by: Shelly Wells Date: 8/22/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/05/2023
Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Randy Madison

From: OCDOnline@state.nm.us
Sent: Tuesday, April 25, 2023 11:46 AM
To: Randy Madison
Subject: [EXT]: The Oil Conservation Division (OCD) has approved the application, Application ID: 210261

**** External Email ****

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2310135941, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

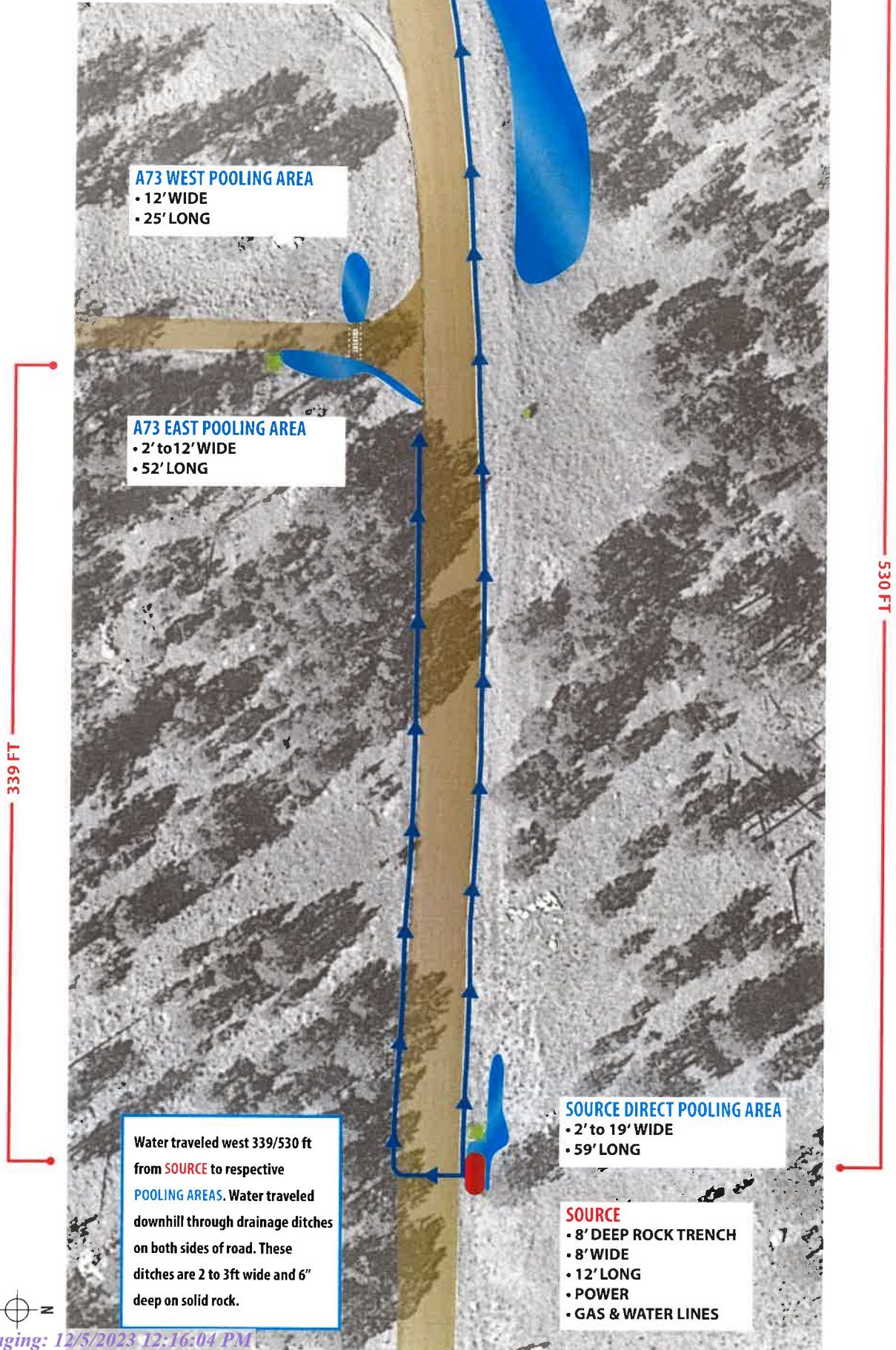
If you have any questions regarding this application, please contact me.

Thank you,
Jocelyn Harimon
Environmental Specialist
575-748-1283
Jocelyn.Harimon@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



nAPP2310135941



Executive Summary

On April 8, 2023 Wapiti Operating, LLC had a major release of produced water on an 8" main water line. This was due to the line pressuring up when an injection pump had mechanical issues and shut down. This resulted in approximately 700 barrels of produced water, coal fines and hydrocarbons used to treat the wells being released on the surfaced.

The water traveled about 530 feet in the north road ditch pooling in a low area on the northside of the road. From that pool Wapiti was able to recover 670 barrels of water because this area is all on solid rock so it did not dissipate into the ground. Some water traveled down the road on the southside of the road about 393 feet. This water collected at the entrance to VPR A-73 gas well. Amount there is unknown none was collected.

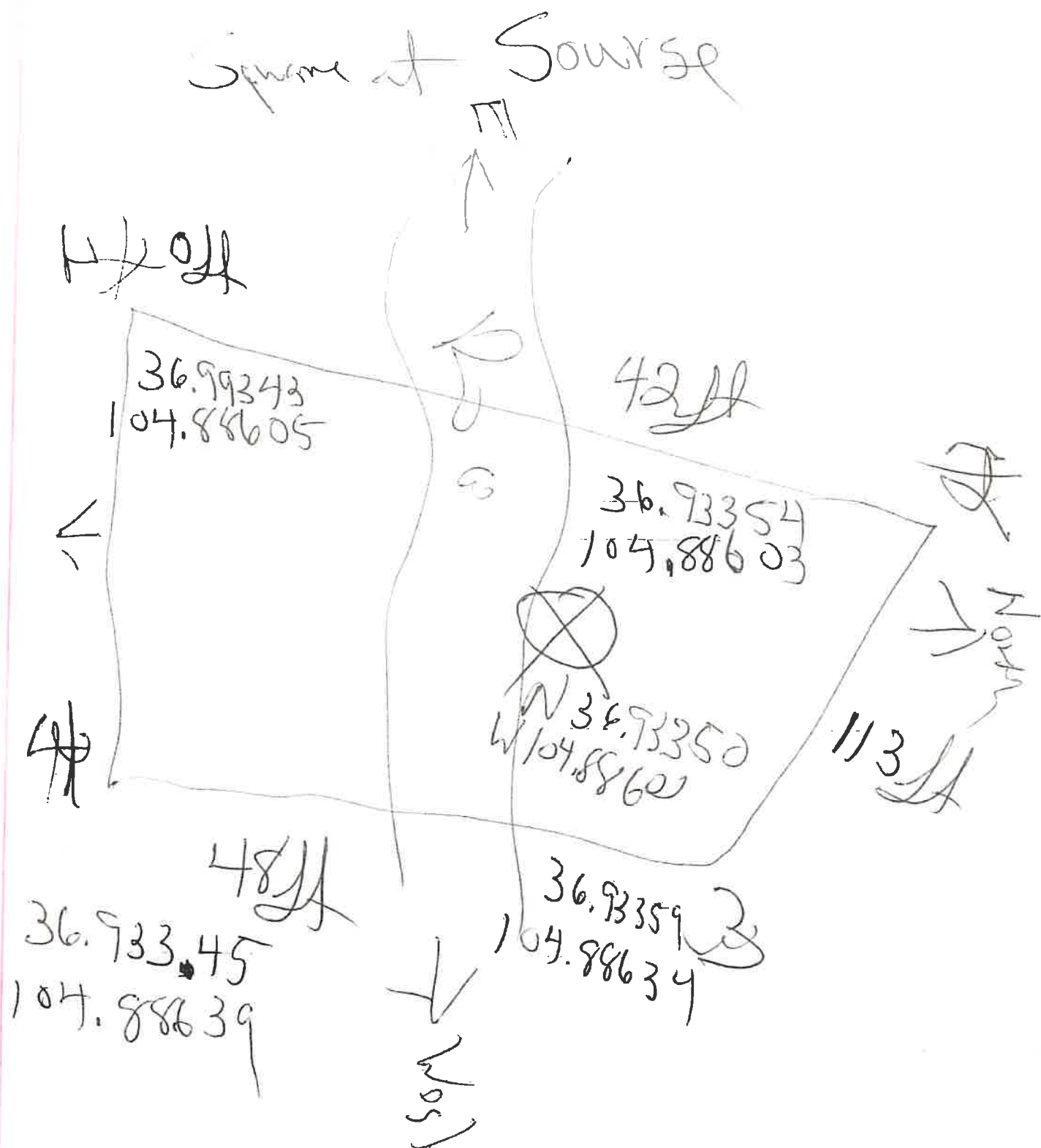
All of the soil contaminated with hydrocarbon's was removed from the area. This amounted to 61.25 tons of contaminated soil. It was transferred by Waste Management to Midway Landfill, 8025 Rancho Colorado BLVD., Fountain, CO 80817

Site sampling plan was submitted and approved. Sampling was carried out according to the plan. The samples were analyzed by Test America see supporting documentation.

The results of some of the samples came back over the Total TPH of 100 mg/kg. In consulting with Test America they explained that they cannot determine what are natural occurring organic materials and what came from the spill. The main area where the results were high are in the pond or low area where water collects every time Wapiti experiences a heavy rain (Gully Washer) due to run-off along the road and out of the forest. The forest run-off contains pine needles and duff from the pine trees in the area.

With Wapiti knowing that there are natural organics in that low area and the average THP of all the samples being 101 mg/kg Wapiti is requesting that this spill be closed with no further remediation or sampling.





Ditch North Side of Road

#1 N 36.93340 East ~~10~~ miles 10
W 104.88604

#2 36.93346 467 ft
104.88627

#3 36.93347 411 ft
104.88648

#4 36.93349 351 ft
104.88668

#5 36.93348 290 ft
104.88689

#6 36.93349 230 ft
104.88708

#7 36.93348 168 ft
104.88730

#8 36.93346 104
104.88750

#9 36.93345 40 ft
104.88772

Ditch South Side

#2 36.93344
104.88726

Station Point A-73

#3 36.93348
104.88705

67 ft

#3 36.93347
104.88683

130 ft

#4 36.93346
104.88660

193 ft

#5 36.93346
104.88640

247

#6 36.93344
104.88618

307

#7 36.93344
104.88609

339 ft or 113.73 ft

A-73 Enclaved

~~#1~~ 36.93322 19ff
104.88724~~#2~~ 36.93329 16ff
104.88734~~#3~~ 36.93333 60-mk 10ff
104.88747~~#4~~ 36.93340 Across 4ff
104.88747~~#5~~ 36.93337 25ff
104.88736~~#6~~ 36.93335 16ff
104.88725

Pool

#1 N 36.93343
W 104.8803

Starting Point on Pond

#2 N 36.93350
W 104.88797

44 ft

#3 N 36.93357
W 104.887.86

56 ft

#4 N 36.93361
W 104.88771

70 ft

#5 N 36.93364
W 104.88761

96 ft

#6 N 36.93364
W 104.88747

152 Pointy Pond Ear

#7 N 36.93356
W 104.88744

138 ft Station Back Well

#8 N 36.93352
W 104.88757

89 ft

#9 N 36.93352
W 104.88767

73 ft

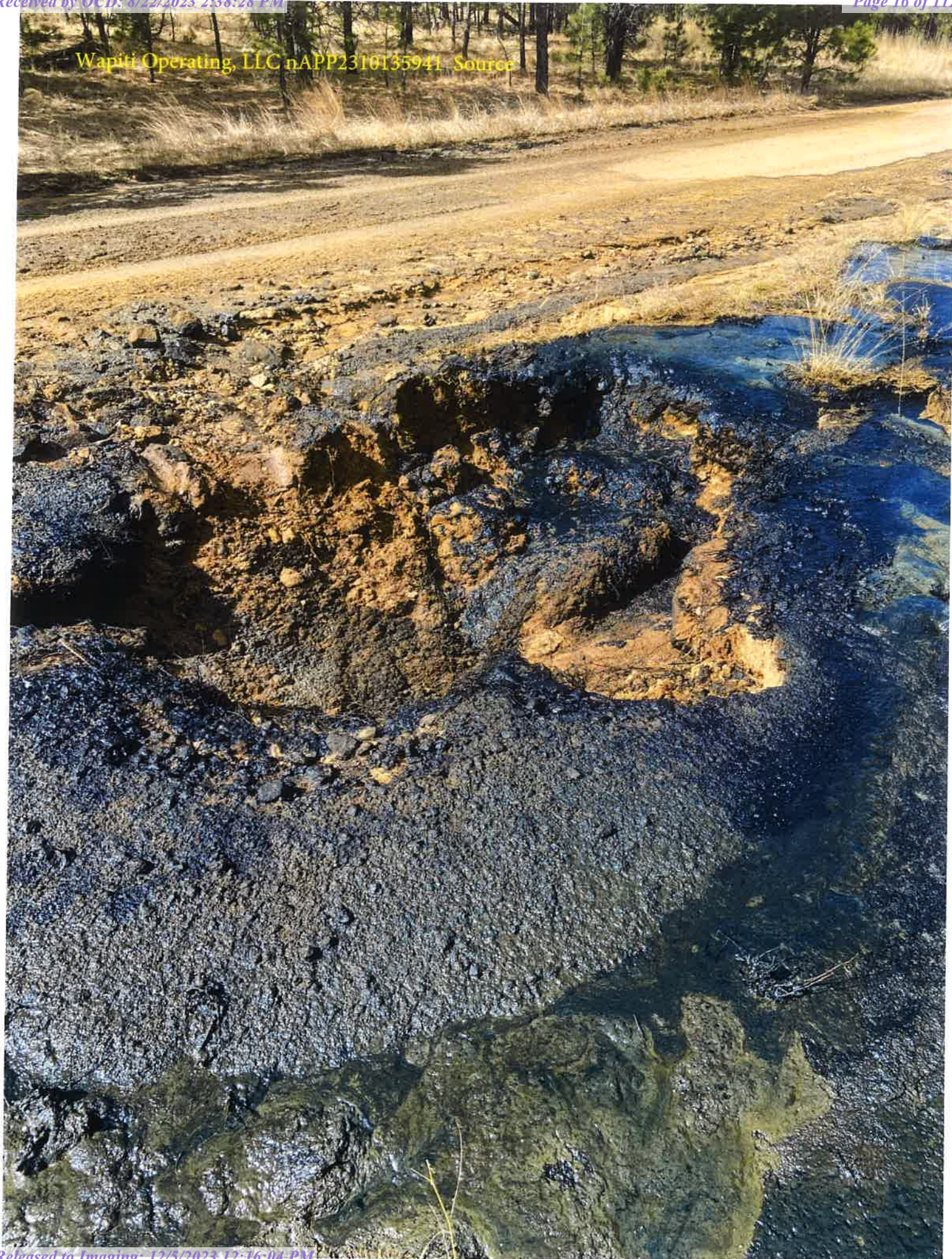
#10 N 36.93351
W 104.88778

48 ft

#11 N 36.93348
W 104.887.88

29 ft

Wapiti Operating, LLC nAPP2310135941 Source



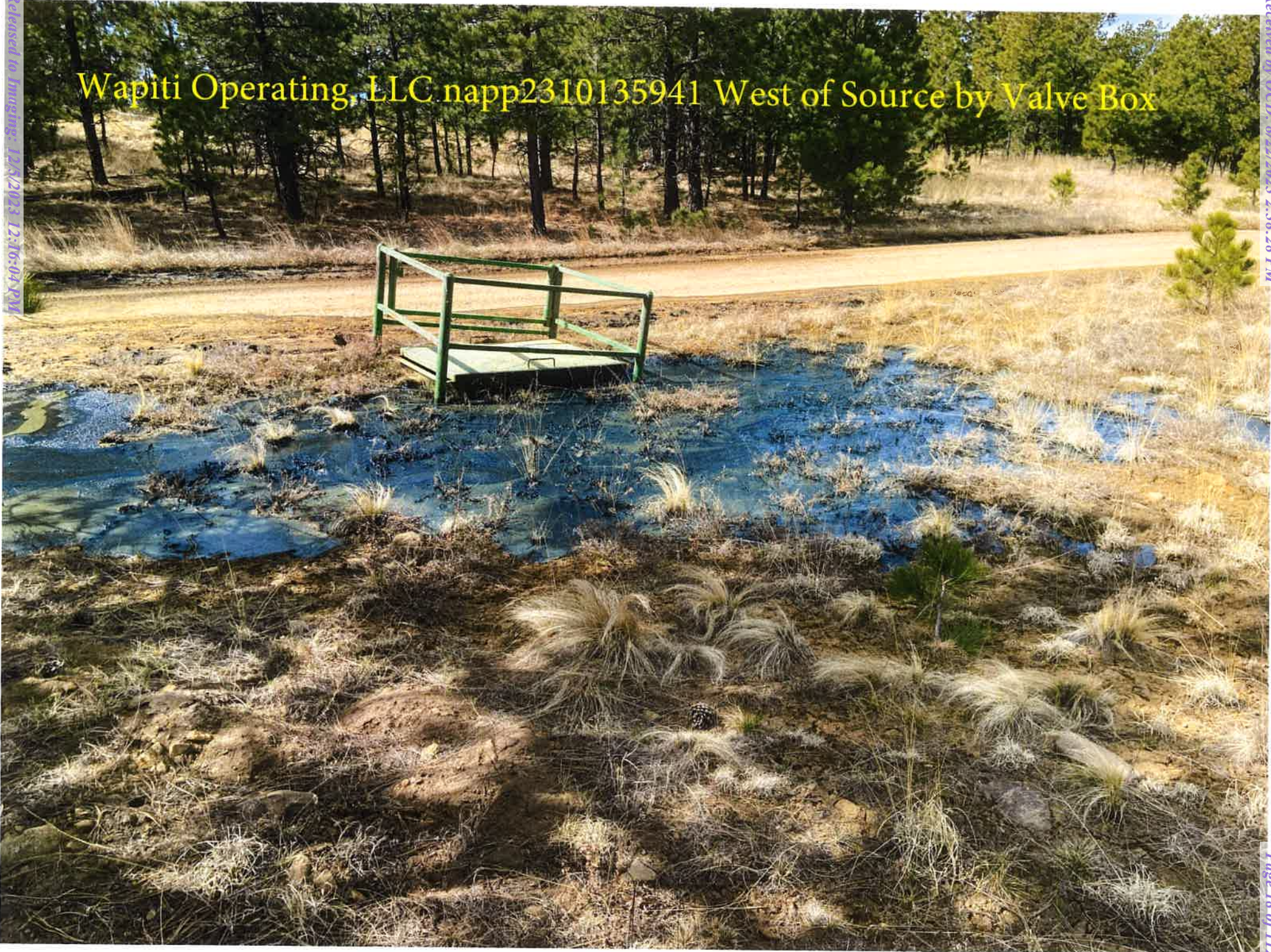
Wapiiti Operating, LLC nAPP2310135941 West of Source



Wapiti Operating, LLC napp2310135941 West of Source by Valve Box

Released to Imaging: 12/2/2023 12:16:04 PM

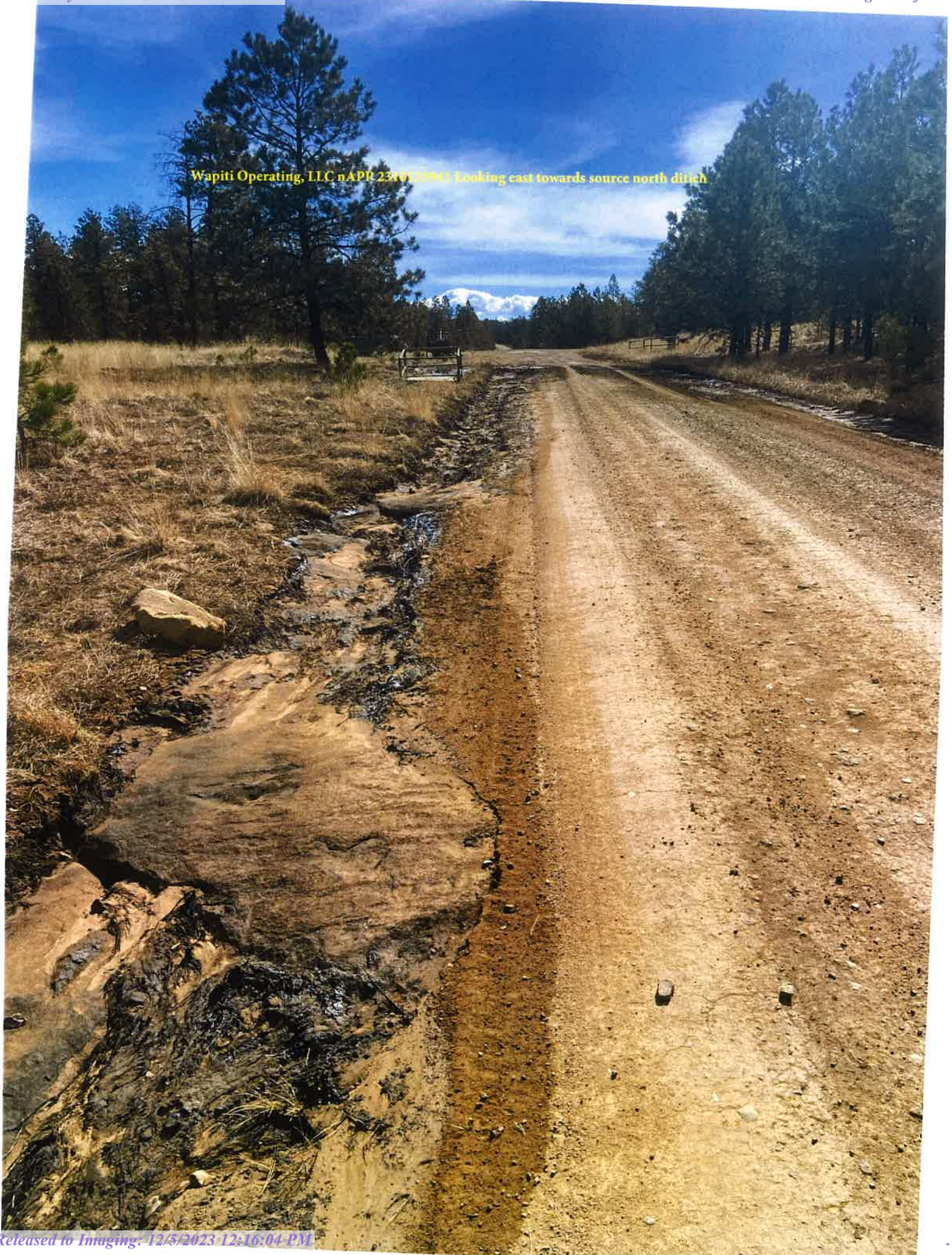
Received by OCD: 8/22/2023 2:38:28 PM



Wapiti Operating, LLC nAPP2310135941 Looking East to Source



Wapiti Operating, LLC nAPP 2310135941 North of
Source





Wapiti Operating, LLC nAPP2310135941 Looking east on north side of ditch towards endwest



Wapiti Operating, LLC nAPP2310135941 West end of spill north ditch and pool



Wapiti Operating, LLC nAPP2310135941 Water Pooled in Low Area

Wapiti Operating, LLC nAPP2310135941 South Ditch at Source



Wapiti Operating, LLC nAPP2310135941 South ditch towards source



Wapiti Operating, LLC nAPP2310135941 South ditch middle





Waguti Operating, LLC nATP 251 12/15/2012 South end of ditch water collected and flowed through culvert to other side of the A-73 entrance



Wapiti Operating, LLC nAPP 2310135941 End of spill on the south side of A-73 driveway



TO: Nelson Velez, Environmental Specialist
NMOCD District 3 & 4
1000 Rio Brazos Rd.
Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941

Mr. Velez,

Wapiti Operating, LLC is requesting a variance to the required sampling area per 19.15.29.12.D (1a). Wapiti is requesting the 200 square feet requirement be waived to 500 square feet.

The following is justification for the request:

1. Water from the leak flowed downhill in the established ditch along the lease road and the bottom of the ditch is solid rock. These conditions increased the impacted area.
2. The 8" Produced Water line is trenched through bed rock. This caused the water leak to expand over a larger than normal area.
3. The water that pooled in the area on the attached drawing would be well represented with a 500 sqft. sample as the produced water would have the same characteristics. We were able to recover 670 barrels of produced water from this area.

Upon approval of this variance Wapiti will submit a sampling plan per 19.15.29.12.D (2a). See the attached drawing. Thanks for your consideration in this matter.

Sincerely,

Randy L. Madison



TO: Nelson Velez, Environmental Specialist
NMOCD District 3 & 4
1000 Rio Brazos Rd.
Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941

Mr. Velez,

Wapiti Operating, LLC is submitting the following sampling plan for the above-mentioned incident are referenced in the attached drawing.

#1. Source, area around opening and source pool to the west. 2 Composite Sample with 5 points of collection. Total surface area to be sampled is to clean top soil or to bed rock. This area is approximately 597.5 sqft.

#2. North Ditch 1 Composite sample with 5 points of collection. Collection of the samples will be about 100 linear ft between collection points. This ditch has a solid rock bottom. Total area to be sampled is approximately 530 sqft.

#3 South Ditch 1 Composite Sample with 5 points of collection over the 339 linear ft. equally spaced along the ditch. Total area to be sampled is 339 sqft.

#4 A-73 East and West pooling areas 1 Composite sample with 5 collection points. The sampling will be to clean top soil or bed rock. Total area to be sampled is 560 sqft.

#5 End Point Water pooled in this area and was recovered. 8 Composite samples in this area will be taken. Total surface area to be sampled is to clean top soil or to bed rock. Total area to be sampled is 3750 sqft.

Wapiti Operating is proposing a total of 13 composite samples to be done with 5 grabs per sample. The collection of these samples will take place after the stained and contaminated soil has been removed. The analysis will be done to Table 1 requirements 19.15.29.12

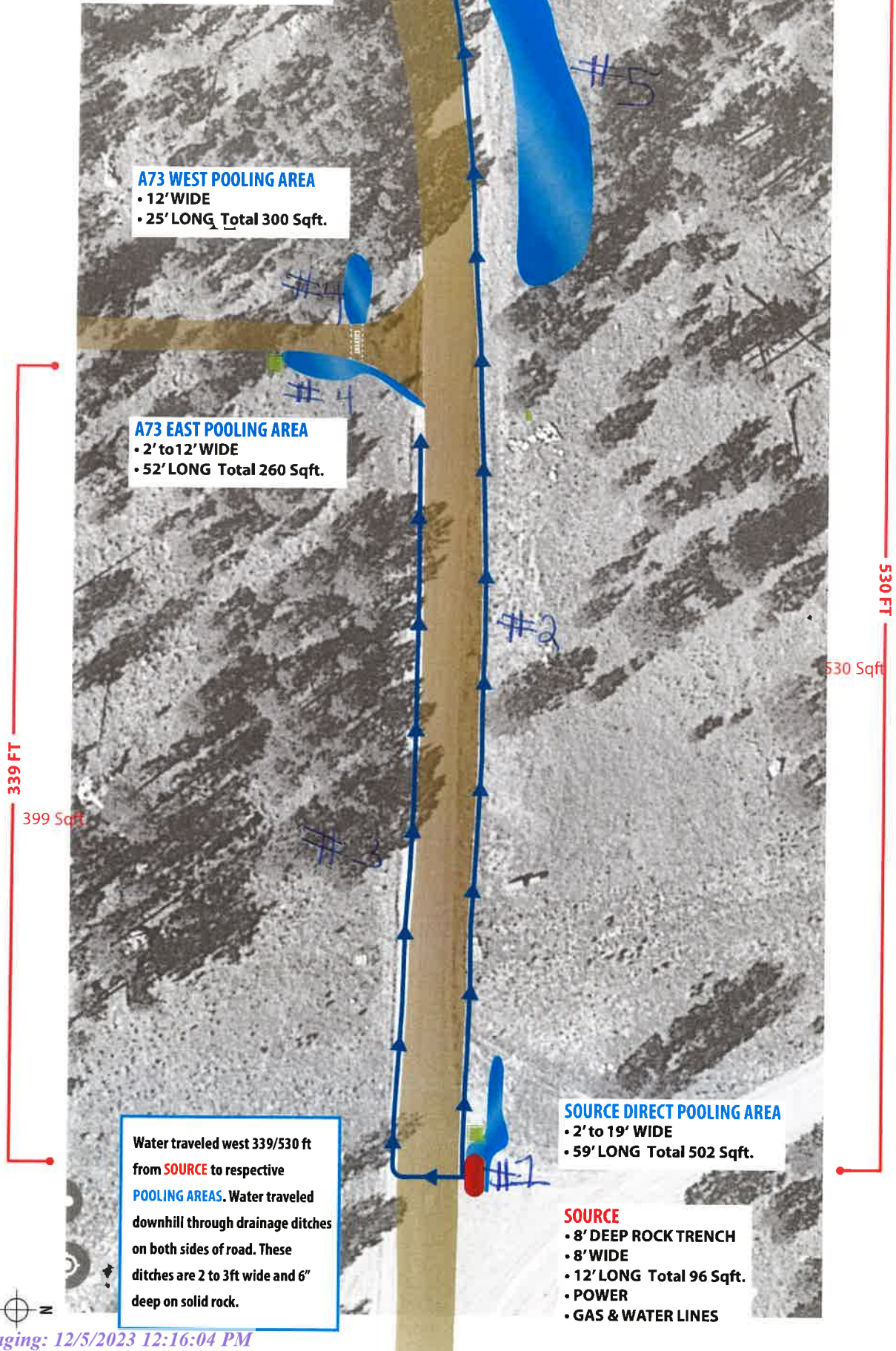
Sincerely,

Randy L. Madison

P.O. Box 190, 309 Silver Street, Raton, NM 87740



nAPP2310135941





July 7, 2023

TO: Nelson Velez, Environmental Specialist
NMOCD District 3 & 4
1000 Rio Brazos Rd.
Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941. Request for a 45-day extension on the final submission

Mr. Velez,
Wapiti Operating, LLC is a 45 day extension on requirements of the final report on the above referenced incident. This would extend the deadline till August 22, 2023. The reason for the request is we have had some logistic problems on getting the contaminated soil removed. Thank you for your consideration in this matter.

Sincerely,

Randy L. Madison

P.O. Box 190, 309 Silver Street, Raton, NM 87740

Randy Madison

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, July 7, 2023 10:56 AM
To: Randy Madison
Subject: [EXT]: Re: [EXTERNAL] Extension Request

**** External Email ****

Good morning Randy,

Your 45-day time extension request for NAPP2310135941 8" WATERLINE incident is approved. Remediation Due date has been updated to August 21, 2023 within the incident page.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Randy Madison <RMadison@WapitiEnergy.com>
Sent: Friday, July 7, 2023 9:54 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,
I have attached a sign request for an extension on the Major Spill.
Thanks
Randy

Randy L. Madison, HSE & Regulatory Specialist, Sr.
Wapiti Operating, LLC
P.O. Box 190
309 Silver St.

Raton, NM 87740
Office 575-445-6706
Cell 575-420-1120
rmadison@wapitienergy.com

Your message is ready to be sent with the following file or link attachments:

Extension Signed

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



Colorado Landfills - Midway Landfill
8925 Rancho Colorado Blvd
Fountain, CO, 80817
Ph: 719-382-8383

Original
Ticket# 1093908

Customer Name WAPITIOOPERATINGLLC WAPITI OPE Carrier WM WASTE MANAGEMENT
Ticket Date 07/06/2023 Vehicle# 653108-30 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004632
State Waste Code Gen EPA ID
Manifest 516459
Destination Grid
PO
Profile 118368CO (PARRAFIN IMPACTED SOILS)
Generator 125-WAPITIOOPERATINGLLC WAPITI OPERATING LLC (309 SILVER)

	Time	Scale	Operator	Inbound	Gross	
In	07/06/2023 15:49:48	Scale 1	mdwyer		Tare	78840 lb
Out	07/06/2023 16:16:03	Outbound	mdwyer		Net	45020 lb
Comments					Tons	33820 lb
						16.91

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.91	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
Total Ticket

Driver's Signature

DSCAR

Ticket # 1693908

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 516459	
5. Generator's Name and Mailing Address Wapiti Operations LLC 309 Silver Placer Generator's Phone: NM 87740 375-420-120			Generator's Project Address (if different than mailing address) 309 Silver Placer NM, 87740			
6. Transporter 1: Complete Company Name and Address Waste Management Energy S. 11655 W. 59th Ave. CO 80643			Transporter Phone 303-737-4992			
7. Transporter 2: Complete Company Name and Address			Transporter Phone			
8. Designated Disposal Facility Name and Site Address Midway Landfill 8925 Rancho Colorado Blvd Fountain, CO 80817			Facility's Phone: 719-387-8383			
9. Waste Shipping Name, Description, & Profile Number Paraffin impacted soil 118368 CO			10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
			1	30 yd ot	16.91T	
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530			Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:						
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.						
Generator's/Officer's Printed/Typed Name Randy L. Madison			Signature 		Month Day Year 07/06/23	
16. Transporter Acknowledgment of Receipt of Materials			Signature		Month Day Year	
Transporter 1 Printed/Typed Name Oscar Mercado			Signature 		Month Day Year 07/06/23	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
17. Special Handling Instructions						
18. Discrepancy Indication Space:					19. Ticket #	
Initials of Person noting discrepancy			Signature		Date	
20. Management Method/Location Landfill _____ Monofill _____ Location: _____						
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18 Printed/Typed Name: Melissa Dwyer Signature: Month Day Year: 7/6/23						

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone 800-424-9300		4. Waste Tracking Number 516459	
5. Generator's Name and Mailing Address <i>Waste Management Services</i>						Generator's Project Address (if different than mailing address)			
Generator's Phone: <i>773-467-7734</i>									
6. Transporter 1: Complete Company Name and Address <i>Waste Management Services</i>								Transporter Phone <i>856 760 470</i>	
7. Transporter 2: Complete Company Name and Address								Transporter Phone	
8. Designated Disposal Facility Name and Site Address <i>Midway Landfill</i> <i>8705 Lowell Colorado 8003</i> <i>Lowell CO 80017</i>						Facility's Phone: <i>719 387 6373</i>			
9. Waste Shipping Name, Description, & Profile Number <i>1. Generator's Project Address</i> <i>118368 CO</i>						10. Containers		11. Total Quantity	12. Unit Wt./Vol.
						No.	Type		
						1	307		
							05		
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530						Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:									
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.									
Generator's/Officer's Printed/Typed Name <i>Randy L. McInerney</i>						Signature <i>[Signature]</i>		Month Day Year <i>07/06/23</i>	
16. Transporter Acknowledgement of Receipt of Materials									
Transporter 1 Printed/Typed Name <i>Waste Management</i>						Signature <i>[Signature]</i>		Month Day Year <i>07/06/23</i>	
Transporter 2 Printed/Typed Name						Signature		Month Day Year	
17. Special Handling Instructions									
18. Discrepancy Indication Space:								19. Ticket #	
Initials of Person noting discrepancy						Signature		Date	
20. Management Method/Location Landfill _____ Monofill _____ Location: _____									
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18									
Printed/Typed Name						Signature		Month Day Year	



Colorado Landfills - Midway Landfill
8925 Rancho Colorado Blvd
Fountain, CO, 80817
Ph: 719-382-8383

Reprint
Ticket# 1093970

Customer Name WAPITIOOPERATINGLLC WAPITI OPE Carrier WM WASTE MANAGEMENT
Ticket Date 07/07/2023 Vehicle# 653108-30 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004632
State Waste Code Gen EPA ID
Manifest 516460
Destination Grid
PO
Profile 118368CO (PARRAFIN IMPACTED SOILS)
Generator 125-WAPITIOOPERATINGLLC WAPITI OPERATING LLC (309 SILVER)

	Time	Scale	Operator	Inbound	Gross	
In	07/07/2023 11:39:07	Scale 1	mdwyer		Tare	79020 lb
Out	07/07/2023 12:22:07	Outbound	mdwyer		Net	46700 lb
					Tons	32320 lb
						16.16

Comments

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.16	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
Total Ticket

Driver's Signature

Oscar

Ticket # 1093970

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 516460
5. Generator's Name and Mailing Address Wapiti Operations LLC 309 Silver		Generator's Project Address (if different than mailing address) 309 Silver			
Generator's Phone: 703-424-9300		6. Transporter 1: Complete Company Name and Address Waste Management Corp / S. Hass Wdr 59 Keeneshburg Co. 80645			
7. Transporter 2: Complete Company Name and Address		Transporter Phone 303-737-4792			
8. Designated Disposal Facility Name and Site Address Midway Landfill 8905 Rancho Colorado Blvd Fountain CO 80817		Facility's Phone:			
9. Waste Shipping Name, Description, & Profile Number		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
1. Paraffin impacted soil 118368 CO		No.	Type		
		1	304 OT	16.6T	
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530		Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:					
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.					
Generator's/Officer's Printed/Typed Name Randy L. Madison		Signature 		Month Day Year 07/06/23	
16. Transporter Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Transporter 1 Printed/Typed Name Oscar Mercado		Signature 		07/06/23	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Special Handling Instructions					
18. Discrepancy Indication Space:				19. Ticket #	
Initials of Person noting discrepancy		Signature		Date	
20. Management Method/Location Landfill _____ Monofill _____ Location:					
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18					
Printed/Typed Name Melissa Dwyer		Signature 		Month Day Year 7/7/23	

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone 800-424-9300		4. Waste Tracking Number 516460	
		5. Generator's Name and Mailing Address <i>169-BLC-O 6 10498</i> Generator's Project Address (if different than mailing address) <i>204 S. 1st St.</i>							
Generator's Phone:		6. Transporter 1: Complete Company Name and Address <i>Chem-Trec</i>							
		Transporter Phone <i>800-424-9300</i>							
		7. Transporter 2: Complete Company Name and Address <i>Chem-Trec</i>							
		Transporter Phone <i>800-424-9300</i>							
		8. Designated Disposal Facility Name and Site Address <i>Monofill</i> Facility's Phone: <i>800-424-9300</i>							
		9. Waste Shipping Name, Description, & Profile Number		10. Containers		11. Total Quantity		12. Unit Wt./Vol.	
				No. Type					
GENERATOR		1. <i>169-BLC-O 6 10498</i>		1					
		2. <i>Monofill</i>							
		13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530				Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
		14. Bill to & Account Number:							
		15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.							
		Generator's/Officer's Printed/Typed Name <i>Kevin Miller</i>		Signature <i>[Signature]</i>		Month <i>07</i>		Day <i>05</i>	
						Year <i>13</i>			
TRANSPORTER		16. Transporter Acknowledgement of Receipt of Materials							
		Transporter 1 Printed/Typed Name <i>Chem-Trec</i>		Signature <i>[Signature]</i>		Month <i>07</i>		Day <i>05</i>	
		Transporter 2 Printed/Typed Name		Signature		Month		Day	
						Year			
		17. Special Handling Instructions							
DESIGNATED FACILITY		18. Discrepancy Indication Space:						19. Ticket #	
		Initials of Person noting discrepancy _____ Signature _____						Date _____	
		20. Management Method/Location Landfill _____ Monofill _____ Location: _____							
		21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18							
		Printed/Typed Name		Signature		Month		Day	
						Year			



Colorado Landfills - Midway Landfill
8925 Rancho Colorado Blvd
Fountain, CO, 80817
Ph: 719-382-8383

Reprint
Ticket# 1094909

Customer Name WAPITIOOPERATINGLLC WAPITI OPE Carrier WM WASTE MANAGEMENT
Ticket Date 07/19/2023 Vehicle# 653108-30 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004632
State Waste Code Gen EPA ID
Manifest 516555
Destination Grid
PO
Profile 118368CO (PARRAFIN IMPACTED SOILS)
Generator 125-WAPITIOOPERATINGLLC WAPITI OPERATING LLC (309 SILVER)

	Time	Scale	Operator	Inbound	Gross	
In	07/19/2023 10:16:00	Scale 1	AMUNDELL		Tare	74120 lb
Out	07/19/2023 11:01:14	Outbound	AMUNDELL		Net	45100 lb
					Tons	29020 lb
Comments						14.51

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	14.51	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
Total Ticket

Driver's Signature

OSCAK

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone 800-424-9300		4. Waste Tracking Number 516555	
5. Generator's Name and Mailing Address Wapiti Operating LLC 309 Silver Baton NM 87140 575-420-1120						Generator's Project Address (if different than mailing address)			
6. Transporter 1: Complete Company Name and Address Waste Management Energy S. Hess Wwsg Keenesburg CO 80643						Transporter Phone 303-732-4292			
7. Transporter 2: Complete Company Name and Address						Transporter Phone			
8. Designated Disposal Facility Name and Site Address Midway Landfill 8975 Rancho Colorado Blvd Fountain CO 80817						Facility's Phone: 719-382-8383			
9. Waste Shipping Name, Description, & Profile Number Paraffin Impacted soils 118368CO						10. Containers		11. Total Quantity 14.51	12. Unit Wt./Vol. T
						No.	Type		
						1	30yd ot		
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530						Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:									
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.									
Generator's/Officer's Printed/Typed Name x Rand L. Madison						Signature 		Month Day Year 07/18/23	
16. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Oscar Mercado						Signature 		Month Day Year 07/18/23	
Transporter 2 Printed/Typed Name						Signature		Month Day Year	
17. Special Handling Instructions									
18. Discrepancy Indication Space:								19. Ticket # 1094909	
Initials of Person noting discrepancy						Signature		Date	
20. Management Method/Location Landfill <input checked="" type="checkbox"/> Monofill <input type="checkbox"/> Location: MWLF									
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18									
Printed/Typed Name ANGIE MUNDELL						Signature 		Month Day Year 07/19/23	

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone 800-424-9300		4. Waste Tracking Number 516555	
5. Generator's Name and Mailing Address P.O. Box 1000 11856000						Generator's Project Address (if different than mailing address)			
Generator's Phone: 303-424-9300									
6. Transporter 1: Complete Company Name and Address Waste Management Co. 3120 116 St. W - 55th Ave. S. #100 Minneapolis, MN 55412						Transporter Phone			
7. Transporter 2: Complete Company Name and Address						Transporter Phone			
8. Designated Disposal Facility Name and Site Address New York State 1719 E. J. P. St.						Facility's Phone:			
9. Waste Shipping Name, Description, & Profile Number Radioactive Impure Solid Waste 11856000						10. Containers		11. Total Quantity	12. Unit Wt./Vol.
						No.	Type		
						1	OT		
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80222-1530						Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:									
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.									
Generator's/Officer's Printed/Typed Name Randall L. Mahison				Signature 		Month Day Year 07/18/23			
16. Transporter Acknowledgement of Receipt of Materials									
Transporter 1 Printed/Typed Name Dora Merced				Signature 		Month Day Year 07/18/23			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
17. Special Handling Instructions									
18. Discrepancy Indication Space:								19. Ticket #	
Initials of Person noting discrepancy _____ Signature _____								Date _____	
20. Management Method/Location Landfill _____ Monofill _____ Location: _____									
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18									
Printed/Typed Name				Signature		Month Day Year			



Colorado Landfills - Midway Landfill
8925 Rancho Colorado Blvd
Fountain, CO, 80817
Ph: 719-382-8383

Reprint
Ticket# 1094861

Customer Name WAPITIOOPERATINGLLC WAPITI OPE Carrier WM WASTE MANAGEMENT
Ticket Date 07/18/2023 Vehicle# 653108 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004632
State Waste Code Gen EPA ID
Manifest 516556
Destination Grid
PO
Profile 118368CO (PARRAFIN IMPACTED SOILS)
Generator 125-WAPITIOOPERATINGLLC WAPITI OPERATING LLC (309 SILVER)

	Time	Scale	Operator	Inbound	Gross	
In	07/18/2023 14:53:28	Scale 1	mdwyer		Tare	72600 lb
Out	07/18/2023 15:40:39	Outbound	mdwyer		Net	45240 lb
					Tons	27360 lb
Comments						13.68

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.



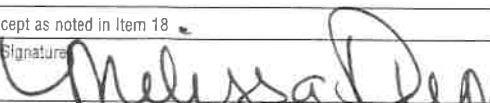
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	13.68	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
Total Ticket

Driver's Signature

Oscar

Ticket# 1694861

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 516556
5. Generator's Name and Mailing Address Wapiti Operating LLC 309 Silver Belen NM 87740 575-400-1130		Generator's Project Address (if different than mailing address)			
6. Transporter 1: Complete Company Name and Address Waste Management Org 15 11655 Wier St Keeneshaw CO 80443		Transporter Phone 303-732-4292			
7. Transporter 2: Complete Company Name and Address		Transporter Phone			
8. Designated Disposal Facility Name and Site Address Midway Landfill 8925 Rancho Colorado Blvd Fountain CO 80817		Facility's Phone: 719-382-8383			
9. Waste Shipping Name, Description, & Profile Number Paraffin Impacted soils 11836800		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
			1	30 yd	
				OT	
				13.68Y	
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80222-1530		Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number			
14. Bill to & Account Number:					
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.					
Generator's/Officer's Printed/Typed Name x Randy L Madison		Signature 		Month Day Year 07 18 23	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Osce Mercado		Signature 		Month Day Year 07 18 23	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Special Handling Instructions					
18. Discrepancy Indication Space:					19. Ticket #
Initials of Person noting discrepancy _____ Signature _____					Date _____
20. Management Method/Location Landfill _____ Monofill _____ Location: _____					
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18 Printed/Typed Name: Melissa Dwyer Signature:  Month Day Year: 7 18 23					

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 516556
5. Generator's Name and Mailing Address Generator's Project Address (if different than mailing address)					
Generator's Phone:					
6. Transporter 1: Complete Company Name and Address					Transporter Phone
7. Transporter 2: Complete Company Name and Address					Transporter Phone
8. Designated Disposal Facility Name and Site Address					Facility's Phone:
9. Waste Shipping Name, Description, & Profile Number		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1					
2					
13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Co 80222-1530				Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number	
14. Bill to & Account Number:					
15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.					
Generator's/Officer's Printed/Typed Name		Signature		Month	Day Year
Randy McIsaac				07	15/23
16. Transporter Acknowledgement of Receipt of Materials		Signature		Month	Day Year
Transporter 1 Printed/Typed Name		Signature		Month	Day Year
Dora McIsaac				07	15/23
Transporter 2 Printed/Typed Name		Signature		Month	Day Year
17. Special Handling Instructions					
18. Discrepancy Indication Space:					19. Ticket #
Initials of Person noting discrepancy					Signature
					Date
20. Management Method/Location					
Landfill Monofill Location:					
21. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18					
Printed/Typed Name		Signature		Month	Day Year

Randy Madison

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, July 14, 2023 7:23 AM
To: Randy Madison
Subject: [EXT]: Re: [EXTERNAL] Notification of Sampling

****** External Email ******

Randy,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Randy Madison <RMadison@WapitiEnergy.com>
Sent: Thursday, July 13, 2023 1:09 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Notification of Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This e-mail will serve as notification of Soil Sampling on incident nAPP2310135941. I will sample this incident on 7/19/23 at 0800 hrs.

Randy

Randy L. Madison, HSE & Regulatory Specialist, Sr.

Wapiti Operating, LLC

P.O. Box 190

309 Silver St.

Raton, NM 87740

Office 575-445-6706

Cell 575-420-1120

rmadison@wapitienergy.com







Sample #1 Source

Sample Grab 2

WARNING
EXCAVATION
DO NOT ENTER
1-877-444-4444



Sample #1 Source

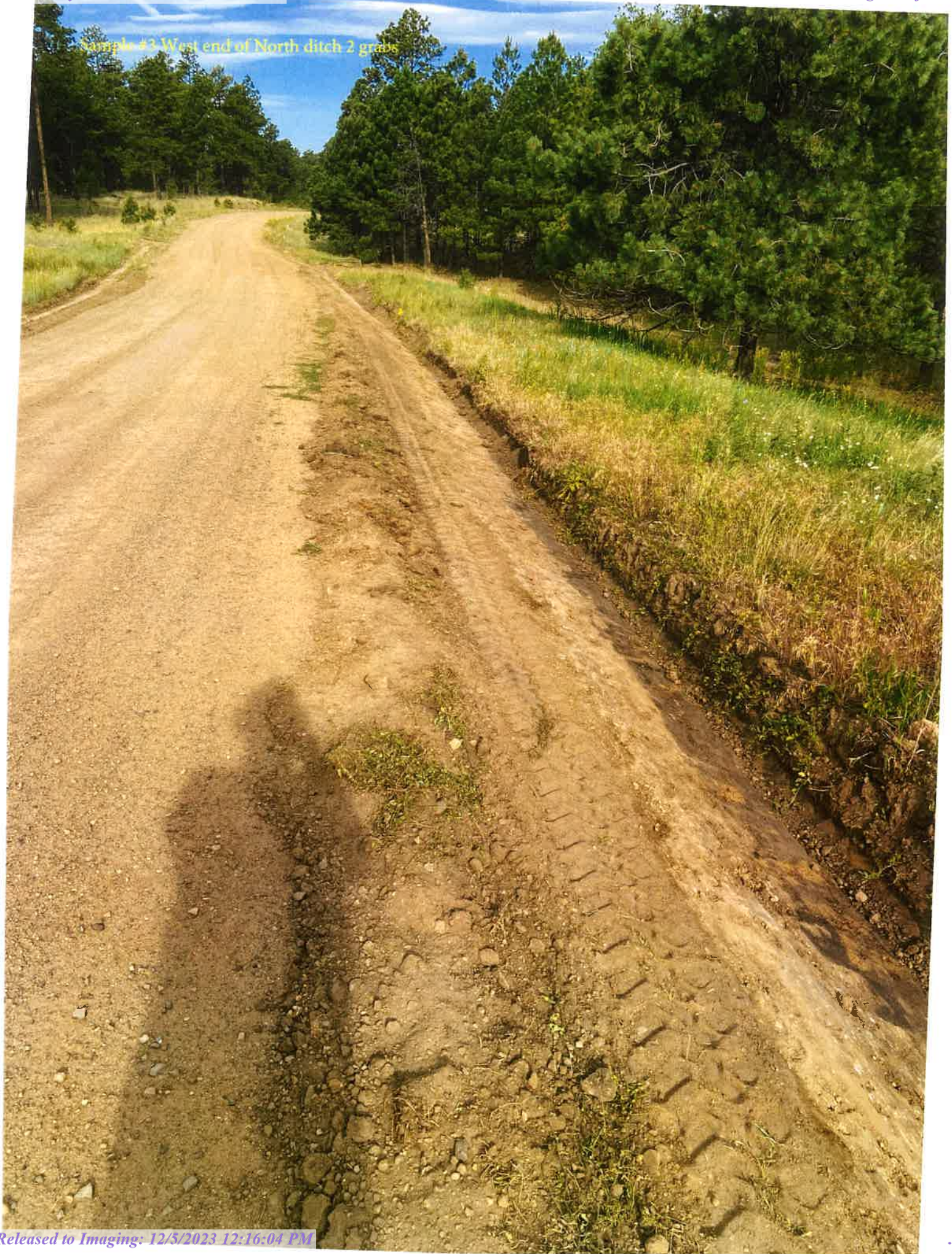


Sample #2 Source 5 grab

Sample #3 North Ditch 3 grabs



Sample #3 West end of North ditch 2 grabs



Sample #42 grade South Ditch



Sample #4 3 grab width ditch



Sample #5 3 grabs, End of Spill on South side



4 Samples taken in this area with 20 grabs . See the flags



4 Composite samples with 5 grabs each 20 locations looking east





All 11 samples collected ready to be bottled and transported to the lab.

Wapiti Operating, LLC
Raton, NM 87740
ORGID #: 328741

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Location: Mainline Release nAPP2310135941

Sample Location	Date	Depth (bgs)	Benzene (mg/kg)	Total Benzene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chlorides (mg/kg)
Closure Criteria			10	50				100	600
Area #1 Sample #1	7/19/2023	0	0.005	0.005	1.8	29	36	66.8	30
Area #1 Sample #2	7/19/2023	2	0.005	0.005	2.7	46	70	118.7	30
Area #2 Sample #1	7/19/2023	1	0.005	0.005	2.2	11	33	46.2	30
Area #3 Sample #1	7/19/2023	1	0.005	0.005	2.2	34	97	133.2	30
Area #4 Sample #1	7/19/2023	0	0.0051	0.0051	2	7.8	23	32.8	30
Area #5 Sample #1	7/19/2023	0	0.0049	0.0049	2.1	25	67	94.1	30
Area #5 Sample #2	7/19/2023	0	0.0051	0.0051	2.1	47	79	128.1	30
Area #5 Sample #3	7/19/2023	0	0.005	0.005	2	37	79	118	30
Area #5 Sample #4	7/19/2023	0	0.0051	0.0051	2.2	36	74	112.2	30
Area #5 Sample #5	7/19/2023	0	0.005	0.005	2.2	11	39	52.2	30
Area #5 Sample #6	7/19/2023	0	0.0052	0.0052	1.9	63	88	152.9	30
Area #5 Sample #7	7/19/2023	0	0.0049	0.0049	4.3	34	77	115.3	30
Area #5 Sample #8	7/19/2023	0	0.005	0.005	2	60	85	147	30
Average								101	

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, Xylene

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbons.

Comments: Do to all the natural organics in the area of the spill the low area where the water collected the Total TPH was over the 100 limits. If you average all the samples it comes to 100 mg/kg



Environment Testing

1

2

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4

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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 8/4/2023 9:29:06 AM

JOB DESCRIPTION

Produced Water Spill

JOB NUMBER

280-179304-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

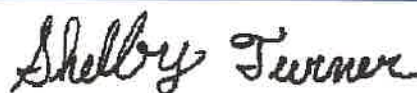
Eurofins Denver

Job Notes

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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



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Authorized for release by
Shelby Turner, Project Manager I
Shelby.Turner@et.eurofinsus.com
(303)736-0100

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Laboratory Job ID: 280-179304-1

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Definitions/Glossary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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

Eurofins Denver

Case Narrative

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Job ID: 280-179304-1**Laboratory: Eurofins Denver****Narrative****CASE NARRATIVE****Client: Wapiti Operating LLC****Project: Produced Water Spill****Report Number: 280-179304-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/20/2023 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 5.8° C.

The ink on the Tared VOA Vials received for GRO analysis is smudged on all sample labels but still able to be read. The laboratory was able to correctly identify the containers to their associated samples.

No sample volume was received for the following samples: Area #5 Sample # 1 (280-179304-6) and Area #5 Sample # 4 (280-179304-9). Therefore, analysis was not logged on these samples. Upon secondary review, the following samples were not received: Area #5 Sample # 1 (280-179304-6), Area #5 Sample # 2 (280-179304-7), Area #5 Sample # 3 (280-179304-8) and Area #5 Sample # 4 (280-179304-9). They were logged in per COC but no volume was received. The sample control technician mistook the sample IDs of sample numbers -110 through -13 as sample numbers -6 through -9. Matched by ID, date, and time.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/01/2023 and 08/02/2023.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for Area #5 Sample # 4 (280-179304-13). Evidence of matrix interference is suspected.

Internal standard responses were outside of acceptance limits for the following sample: Area #5 Sample # 4 (280-179304-13). The sample was re-extracted and re-run with similar results. The matrix of the sample may have interfered with ISTD and surrogates recoveries. Therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GASOLINE RANGE ORGANICS (GRO)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample

Case Narrative

Client: Wapiti Operating LLC
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Job ID: 280-179304-1

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Laboratory: Eurofins Denver (Continued)

1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for Gasoline Range Organics (GRO) in accordance with EPA SW-846 Method 8015C - GRO. The samples were prepared on 07/19/2023 and analyzed on 07/26/2023 and 07/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DIESEL RANGE ORGANICS

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/25/2023 and analyzed on 07/31/2023 and 08/01/2023.

Diesel Range Organics [C10-C28] failed the recovery criteria low for the MSD of sample Area #3 Sample # 1 (280-179304-4) in batch 280-621262. Refer to the QC report for details. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Due to the matrix fully venting in the microwave, the initial volumes used for the following sample in preparation batch 280-620620 deviated from the standard procedure: Area #5 Sample # 6 (280-179304-15). To avoid further venting, the sample was ran at five grams instead of the full fifteen grams. The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A (28 Days). The samples were leached on 07/25/2023 and analyzed on 07/26/2023 and 07/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 07/25/2023.

Percent Moisture exceeded the RPD limit for the duplicate of sample Area #5 Sample # 8 (280-179304-17). Refer to the QC report for details. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #1 Sample # 1

Lab Sample ID: 280-179304-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	29		7.9		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	36		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #1 Sample # 2

Lab Sample ID: 280-179304-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	46		7.8		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	70		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #2 Sample # 1

Lab Sample ID: 280-179304-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		7.8		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	33		23		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #3 Sample # 1

Lab Sample ID: 280-179304-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	34	F1	7.7		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	97		23		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #4 Sample # 1

Lab Sample ID: 280-179304-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.8		7.7		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 1

Lab Sample ID: 280-179304-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	25		7.6		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	67		23		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 2

Lab Sample ID: 280-179304-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	47		7.9		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	79		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 3

Lab Sample ID: 280-179304-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	37		7.9		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	79		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 4

Lab Sample ID: 280-179304-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	36		7.8		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	74		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 5

Lab Sample ID: 280-179304-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		7.9		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	39		24		mg/Kg	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sample # 6

Lab Sample ID: 280-179304-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	63		24		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	88		72		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 7

Lab Sample ID: 280-179304-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	4.3		2.2		mg/Kg	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	34		7.8		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	77		24		mg/Kg	1		8015C	Total/NA

Client Sample ID: Area #5 Sample # 8

Lab Sample ID: 280-179304-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	60		7.8		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	85		23		mg/Kg	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	EET DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
3546	Microwave Extraction	SW846	EET DEN
5030B	Purge and Trap	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

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Sample Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179304-1	Area #1 Sample # 1	Solid	07/19/23 13:00	07/20/23 09:58
280-179304-2	Area #1 Sample # 2	Solid	07/19/23 13:10	07/20/23 09:58
280-179304-3	Area #2 Sample # 1	Solid	07/19/23 13:20	07/20/23 09:58
280-179304-4	Area #3 Sample # 1	Solid	07/19/23 13:25	07/20/23 09:58
280-179304-5	Area #4 Sample # 1	Solid	07/19/23 13:30	07/20/23 09:58
280-179304-10	Area #5 Sample # 1	Solid	07/19/23 15:00	07/20/23 09:58
280-179304-11	Area #5 Sample # 2	Solid	07/19/23 15:10	07/20/23 09:58
280-179304-12	Area #5 Sample # 3	Solid	07/19/23 15:20	07/20/23 09:58
280-179304-13	Area #5 Sample # 4	Solid	07/19/23 15:30	07/20/23 09:58
280-179304-14	Area #5 Sample # 5	Solid	07/19/23 15:40	07/20/23 09:58
280-179304-15	Area #5 Sample # 6	Solid	07/19/23 15:50	07/20/23 09:58
280-179304-16	Area #5 Sample # 7	Solid	07/19/23 16:00	07/20/23 09:58
280-179304-17	Area #5 Sample # 8	Solid	07/19/23 16:10	07/20/23 09:58

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #1 Sample # 1

Date Collected: 07/19/23 13:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		58 - 140	08/01/23 10:42	08/01/23 20:10	1
Toluene-d8 (Surr)	99		80 - 126	08/01/23 10:42	08/01/23 20:10	1
4-Bromofluorobenzene (Surr)	111		76 - 127	08/01/23 10:42	08/01/23 20:10	1
Dibromofluoromethane (Surr)	109		75 - 121	08/01/23 10:42	08/01/23 20:10	1

Client Sample ID: Area #1 Sample # 2

Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58 - 140	08/01/23 10:42	08/01/23 16:02	1
Toluene-d8 (Surr)	99		80 - 126	08/01/23 10:42	08/01/23 16:02	1
4-Bromofluorobenzene (Surr)	113		76 - 127	08/01/23 10:42	08/01/23 16:02	1
Dibromofluoromethane (Surr)	109		75 - 121	08/01/23 10:42	08/01/23 16:02	1

Client Sample ID: Area #2 Sample # 1

Date Collected: 07/19/23 13:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:23	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:23	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:23	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:23	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:23	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 140	08/01/23 10:42	08/01/23 16:23	1
Toluene-d8 (Surr)	100		80 - 126	08/01/23 10:42	08/01/23 16:23	1
4-Bromofluorobenzene (Surr)	110		76 - 127	08/01/23 10:42	08/01/23 16:23	1
Dibromofluoromethane (Surr)	106		75 - 121	08/01/23 10:42	08/01/23 16:23	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #3 Sample # 1

Date Collected: 07/19/23 13:25

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:44	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:44	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:44	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:44	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:44	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		58 - 140	08/01/23 10:42	08/01/23 16:44	1
Toluene-d8 (Surr)	100		80 - 126	08/01/23 10:42	08/01/23 16:44	1
4-Bromofluorobenzene (Surr)	112		76 - 127	08/01/23 10:42	08/01/23 16:44	1
Dibromofluoromethane (Surr)	108		75 - 121	08/01/23 10:42	08/01/23 16:44	1

Client Sample ID: Area #4 Sample # 1

Date Collected: 07/19/23 13:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
Ethylbenzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
Toluene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
Xylenes, Total	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		58 - 140	08/01/23 10:42	08/01/23 17:04	1
Toluene-d8 (Surr)	98		80 - 126	08/01/23 10:42	08/01/23 17:04	1
4-Bromofluorobenzene (Surr)	110		76 - 127	08/01/23 10:42	08/01/23 17:04	1
Dibromofluoromethane (Surr)	110		75 - 121	08/01/23 10:42	08/01/23 17:04	1

Client Sample ID: Area #5 Sample # 1

Date Collected: 07/19/23 15:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
Ethylbenzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
Toluene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
Xylenes, Total	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 140	08/01/23 10:42	08/01/23 17:25	1
Toluene-d8 (Surr)	99		80 - 126	08/01/23 10:42	08/01/23 17:25	1
4-Bromofluorobenzene (Surr)	109		76 - 127	08/01/23 10:42	08/01/23 17:25	1
Dibromofluoromethane (Surr)	108		75 - 121	08/01/23 10:42	08/01/23 17:25	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 Sample # 2

Date Collected: 07/19/23 15:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
Ethylbenzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
Toluene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
Xylenes, Total	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		58 - 140				08/01/23 10:42	08/01/23 17:46	1
Toluene-d8 (Surr)	98		80 - 126				08/01/23 10:42	08/01/23 17:46	1
4-Bromofluorobenzene (Surr)	110		76 - 127				08/01/23 10:42	08/01/23 17:46	1
Dibromofluoromethane (Surr)	110		75 - 121				08/01/23 10:42	08/01/23 17:46	1

Client Sample ID: Area #5 Sample # 3

Date Collected: 07/19/23 15:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 140				08/01/23 10:42	08/01/23 18:06	1
Toluene-d8 (Surr)	100		80 - 126				08/01/23 10:42	08/01/23 18:06	1
4-Bromofluorobenzene (Surr)	115		76 - 127				08/01/23 10:42	08/01/23 18:06	1
Dibromofluoromethane (Surr)	105		75 - 121				08/01/23 10:42	08/01/23 18:06	1

Client Sample ID: Area #5 Sample # 4

Date Collected: 07/19/23 15:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*3	0.0051		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
Ethylbenzene	ND	*3	0.0051		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
Toluene	ND	*3	0.0051		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
m-Xylene & p-Xylene	ND	*3	0.0025		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
o-Xylene	ND	*3	0.0025		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
Xylenes, Total	ND		0.0051		mg/Kg		08/02/23 09:50	08/02/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	149	*3 S1+	58 - 140				08/02/23 09:50	08/02/23 14:05	1
Toluene-d8 (Surr)	96	*3	80 - 126				08/02/23 09:50	08/02/23 14:05	1
4-Bromofluorobenzene (Surr)	105	*3	76 - 127				08/02/23 09:50	08/02/23 14:05	1
Dibromofluoromethane (Surr)	113	*3	75 - 121				08/02/23 09:50	08/02/23 14:05	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 Sample # 5

Date Collected: 07/19/23 15:40

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:48	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:48	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		58 - 140	08/01/23 10:42	08/01/23 18:48	1
Toluene-d8 (Surr)	97		80 - 126	08/01/23 10:42	08/01/23 18:48	1
4-Bromofluorobenzene (Surr)	110		76 - 127	08/01/23 10:42	08/01/23 18:48	1
Dibromofluoromethane (Surr)	110		75 - 121	08/01/23 10:42	08/01/23 18:48	1

Client Sample ID: Area #5 Sample # 6

Date Collected: 07/19/23 15:50

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0052		mg/Kg		08/01/23 10:42	08/01/23 19:08	1
Ethylbenzene	ND		0.0052		mg/Kg		08/01/23 10:42	08/01/23 19:08	1
Toluene	ND		0.0052		mg/Kg		08/01/23 10:42	08/01/23 19:08	1
m-Xylene & p-Xylene	ND		0.0026		mg/Kg		08/01/23 10:42	08/01/23 19:08	1
o-Xylene	ND		0.0026		mg/Kg		08/01/23 10:42	08/01/23 19:08	1
Xylenes, Total	ND		0.0052		mg/Kg		08/01/23 10:42	08/01/23 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		58 - 140	08/01/23 10:42	08/01/23 19:08	1
Toluene-d8 (Surr)	99		80 - 126	08/01/23 10:42	08/01/23 19:08	1
4-Bromofluorobenzene (Surr)	108		76 - 127	08/01/23 10:42	08/01/23 19:08	1
Dibromofluoromethane (Surr)	112		75 - 121	08/01/23 10:42	08/01/23 19:08	1

Client Sample ID: Area #5 Sample # 7

Date Collected: 07/19/23 16:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	1
Ethylbenzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	1
Toluene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:29	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:29	1
Xylenes, Total	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		58 - 140	08/01/23 10:42	08/01/23 19:29	1
Toluene-d8 (Surr)	96		80 - 126	08/01/23 10:42	08/01/23 19:29	1
4-Bromofluorobenzene (Surr)	111		76 - 127	08/01/23 10:42	08/01/23 19:29	1
Dibromofluoromethane (Surr)	107		75 - 121	08/01/23 10:42	08/01/23 19:29	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 Sample # 8

Date Collected: 07/19/23 16:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		58 - 140				08/01/23 10:42	08/01/23 19:49	1
Toluene-d8 (Surr)	97		80 - 126				08/01/23 10:42	08/01/23 19:49	1
4-Bromofluorobenzene (Surr)	108		76 - 127				08/01/23 10:42	08/01/23 19:49	1
Dibromofluoromethane (Surr)	107		75 - 121				08/01/23 10:42	08/01/23 19:49	1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: Area #1 Sample # 1

Date Collected: 07/19/23 13:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.8		mg/Kg		07/19/23 13:00	07/26/23 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123				07/19/23 13:00	07/26/23 02:40	1

Client Sample ID: Area #1 Sample # 2

Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.7		mg/Kg		07/19/23 13:10	07/26/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123				07/19/23 13:10	07/26/23 03:04	1

Client Sample ID: Area #2 Sample # 1

Date Collected: 07/19/23 13:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg		07/19/23 13:20	07/26/23 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123				07/19/23 13:20	07/26/23 03:28	1

Client Sample ID: Area #3 Sample # 1

Date Collected: 07/19/23 13:25

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg		07/19/23 13:25	07/26/23 03:52	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123	07/19/23 13:25	07/26/23 03:52	1

Client Sample ID: Area #4 Sample # 1

Date Collected: 07/19/23 13:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/19/23 13:30	07/28/23 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	07/19/23 13:30	07/28/23 02:01	1

Client Sample ID: Area #5 Sample # 1

Date Collected: 07/19/23 15:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.1		mg/Kg		07/19/23 15:00	07/28/23 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	07/19/23 15:00	07/28/23 02:25	1

Client Sample ID: Area #5 Sample # 2

Date Collected: 07/19/23 15:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.1		mg/Kg		07/19/23 15:10	07/28/23 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	07/19/23 15:10	07/28/23 02:49	1

Client Sample ID: Area #5 Sample # 3

Date Collected: 07/19/23 15:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/19/23 15:20	07/28/23 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123	07/19/23 15:20	07/28/23 03:13	1

Client Sample ID: Area #5 Sample # 4

Date Collected: 07/19/23 15:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg		07/19/23 15:30	07/28/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	07/19/23 15:30	07/28/23 03:36	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: Area #5 Sample # 5

Date Collected: 07/19/23 15:40

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg		07/19/23 15:40	07/28/23 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	07/19/23 15:40	07/28/23 04:00	1

Client Sample ID: Area #5 Sample # 6

Date Collected: 07/19/23 15:50

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.9		mg/Kg		07/19/23 15:50	07/28/23 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	07/19/23 15:50	07/28/23 04:24	1

Client Sample ID: Area #5 Sample # 7

Date Collected: 07/19/23 16:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4.3		2.2		mg/Kg		07/19/23 16:00	07/28/23 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		77 - 123	07/19/23 16:00	07/28/23 07:56	1

Client Sample ID: Area #5 Sample # 8

Date Collected: 07/19/23 16:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/19/23 16:10	07/28/23 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123	07/19/23 16:10	07/28/23 17:17	1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: Area #1 Sample # 1

Date Collected: 07/19/23 13:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		7.9		mg/Kg		07/25/23 11:29	07/31/23 22:31	1
Motor Oil (C20-C38)	36		24		mg/Kg		07/25/23 11:29	07/31/23 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		49 - 115	07/25/23 11:29	07/31/23 22:31	1

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Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: Area #1 Sample # 2

Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	46		7.8		mg/Kg		07/25/23 11:29	07/31/23 22:54	1
Motor Oil (C20-C38)	70		24		mg/Kg		07/25/23 11:29	07/31/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		49 - 115				07/25/23 11:29	07/31/23 22:54	1

Client Sample ID: Area #2 Sample # 1

Date Collected: 07/19/23 13:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		7.8		mg/Kg		07/25/23 11:29	07/31/23 23:16	1
Motor Oil (C20-C38)	33		23		mg/Kg		07/25/23 11:29	07/31/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		49 - 115				07/25/23 11:29	07/31/23 23:16	1

Client Sample ID: Area #3 Sample # 1

Date Collected: 07/19/23 13:25

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34	F1	7.7		mg/Kg		07/25/23 11:29	07/31/23 23:39	1
Motor Oil (C20-C38)	97		23		mg/Kg		07/25/23 11:29	07/31/23 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		49 - 115				07/25/23 11:29	07/31/23 23:39	1

Client Sample ID: Area #4 Sample # 1

Date Collected: 07/19/23 13:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.8		7.7		mg/Kg		07/25/23 11:29	08/01/23 01:32	1
Motor Oil (C20-C38)	ND		23		mg/Kg		07/25/23 11:29	08/01/23 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		49 - 115				07/25/23 11:29	08/01/23 01:32	1

Client Sample ID: Area #5 Sample # 1

Date Collected: 07/19/23 15:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		7.6		mg/Kg		07/25/23 11:29	08/01/23 01:55	1
Motor Oil (C20-C38)	67		23		mg/Kg		07/25/23 11:29	08/01/23 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		49 - 115				07/25/23 11:29	08/01/23 01:55	1

Client Sample ID: Area #5 Sample # 2

Date Collected: 07/19/23 15:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	47		7.9		mg/Kg		07/25/23 11:29	08/01/23 02:18	1
Motor Oil (C20-C38)	79		24		mg/Kg		07/25/23 11:29	08/01/23 02:18	1

Eurofins Denver

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		49 - 115	07/25/23 11:29	08/01/23 02:18	1

Client Sample ID: Area #5 Sample # 3

Date Collected: 07/19/23 15:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	37		7.9		mg/Kg		07/25/23 11:29	08/01/23 02:40	1
Motor Oil (C20-C38)	79		24		mg/Kg		07/25/23 11:29	08/01/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		49 - 115	07/25/23 11:29	08/01/23 02:40	1

Client Sample ID: Area #5 Sample # 4

Date Collected: 07/19/23 15:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		7.8		mg/Kg		07/25/23 11:29	08/01/23 03:03	1
Motor Oil (C20-C38)	74		24		mg/Kg		07/25/23 11:29	08/01/23 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		49 - 115	07/25/23 11:29	08/01/23 03:03	1

Client Sample ID: Area #5 Sample # 5

Date Collected: 07/19/23 15:40

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		7.9		mg/Kg		07/25/23 11:29	08/01/23 03:26	1
Motor Oil (C20-C38)	39		24		mg/Kg		07/25/23 11:29	08/01/23 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		49 - 115	07/25/23 11:29	08/01/23 03:26	1

Client Sample ID: Area #5 Sample # 6

Date Collected: 07/19/23 15:50

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	63		24		mg/Kg		07/25/23 11:29	08/01/23 04:33	1
Motor Oil (C20-C38)	88		72		mg/Kg		07/25/23 11:29	08/01/23 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		49 - 115	07/25/23 11:29	08/01/23 04:33	1

Client Sample ID: Area #5 Sample # 7

Date Collected: 07/19/23 16:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34		7.8		mg/Kg		07/25/23 11:29	08/01/23 04:56	1
Motor Oil (C20-C38)	77		24		mg/Kg		07/25/23 11:29	08/01/23 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		49 - 115	07/25/23 11:29	08/01/23 04:56	1

Eurofins Denver

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: Area #5 Sample # 8

Date Collected: 07/19/23 16:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	60		7.8		mg/Kg		07/25/23 11:29	08/01/23 05:18	1
Motor Oil (C20-C38)	85		23		mg/Kg		07/25/23 11:29	08/01/23 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		49 - 115				07/25/23 11:29	08/01/23 05:18	1

General Chemistry

Client Sample ID: Area #1 Sample # 1

Date Collected: 07/19/23 13:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.8		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	98.2		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #1 Sample # 2

Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.5		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	86.5		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #2 Sample # 1

Date Collected: 07/19/23 13:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	97.2		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #3 Sample # 1

Date Collected: 07/19/23 13:25

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	96.2		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #4 Sample # 1

Date Collected: 07/19/23 13:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.2		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	97.8		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 1

Date Collected: 07/19/23 15:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	97.0		0.1		%			07/25/23 12:58	1

Eurofins Denver

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

General Chemistry

Client Sample ID: Area #5 Sample # 2

Date Collected: 07/19/23 15:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.8		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	95.2		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 3

Date Collected: 07/19/23 15:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.5		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	91.5		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 4

Date Collected: 07/19/23 15:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.6		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	97.4		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 5

Date Collected: 07/19/23 15:40

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	95.6		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 6

Date Collected: 07/19/23 15:50

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	95.8		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 7

Date Collected: 07/19/23 16:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.9		0.1		%			07/25/23 12:58	1
Percent Solids (EPA Moisture)	96.1		0.1		%			07/25/23 12:58	1

Client Sample ID: Area #5 Sample # 8

Date Collected: 07/19/23 16:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.3		0.1		%			07/25/23 13:01	1
Percent Solids (EPA Moisture)	94.7		0.1		%			07/25/23 13:01	1

Eurofins Denver

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

General Chemistry - Soluble

Client Sample ID: Area #1 Sample # 1

Date Collected: 07/19/23 13:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 19:42	1

Client Sample ID: Area #1 Sample # 2

Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 20:50	1

Client Sample ID: Area #2 Sample # 1

Date Collected: 07/19/23 13:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 21:07	1

Client Sample ID: Area #3 Sample # 1

Date Collected: 07/19/23 13:25

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 21:24	1

Client Sample ID: Area #4 Sample # 1

Date Collected: 07/19/23 13:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 22:15	1

Client Sample ID: Area #5 Sample # 1

Date Collected: 07/19/23 15:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 22:32	1

Client Sample ID: Area #5 Sample # 2

Date Collected: 07/19/23 15:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 22:49	1

Client Sample ID: Area #5 Sample # 3

Date Collected: 07/19/23 15:20

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 23:06	1

Client Sample ID: Area #5 Sample # 4

Date Collected: 07/19/23 15:30

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	-		07/26/23 23:23	1

Eurofins Denver

Client Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

General Chemistry - Soluble

Client Sample ID: Area #5 Sample # 5

Date Collected: 07/19/23 15:40

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 23:40	1

Client Sample ID: Area #5 Sample # 6

Date Collected: 07/19/23 15:50

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 23:57	1

Client Sample ID: Area #5 Sample # 7

Date Collected: 07/19/23 16:00

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/27/23 00:14	1

Client Sample ID: Area #5 Sample # 8

Date Collected: 07/19/23 16:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/27/23 00:31	1

Eurofins Denver

Surrogate Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (58-140)	TOL (80-126)	BFB (76-127)	DBFM (75-121)
280-179304-1	Area #1 Sample # 1	123	99	111	109
280-179304-2	Area #1 Sample # 2	119	99	113	109
280-179304-3	Area #2 Sample # 1	112	100	110	106
280-179304-4	Area #3 Sample # 1	118	100	112	108
280-179304-5	Area #4 Sample # 1	120	98	110	110
280-179304-10	Area #5 Sample # 1	113	99	109	108
280-179304-11	Area #5 Sample # 2	127	98	110	110
280-179304-12	Area #5 Sample # 3	111	100	115	105
280-179304-13	Area #5 Sample # 4	149 *3 S1+	96 *3	105 *3	113 *3
280-179304-14	Area #5 Sample # 5	121	97	110	110
280-179304-15	Area #5 Sample # 6	128	99	108	112
280-179304-16	Area #5 Sample # 7	130	96	111	107
280-179304-17	Area #5 Sample # 8	129	97	108	107
LCS 280-621428/2-A	Lab Control Sample	111	101	111	101
LCS 280-621562/2-A	Lab Control Sample	110	102	109	101
LCSD 280-621428/3-A	Lab Control Sample Dup	113	101	112	102
LCSD 280-621562/3-A	Lab Control Sample Dup	108	102	111	102
MB 280-621428/1-A	Method Blank	108	98	110	103
MB 280-621562/1-A	Method Blank	113	98	109	109

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (77-123)			
280-179304-1	Area #1 Sample # 1	89			
280-179304-2	Area #1 Sample # 2	89			
280-179304-3	Area #2 Sample # 1	89			
280-179304-4	Area #3 Sample # 1	89			
280-179304-5	Area #4 Sample # 1	90			
280-179304-10	Area #5 Sample # 1	88			
280-179304-11	Area #5 Sample # 2	90			
280-179304-12	Area #5 Sample # 3	89			
280-179304-13	Area #5 Sample # 4	90			
280-179304-14	Area #5 Sample # 5	90			
280-179304-15	Area #5 Sample # 6	90			
280-179304-16	Area #5 Sample # 7	91			
280-179304-17	Area #5 Sample # 8	89			
LCS 280-620736/1-A	Lab Control Sample	92			
LCS 280-621052/1-A	Lab Control Sample	92			
LCSD 280-620736/2-A	Lab Control Sample Dup	92			
LCSD 280-621052/2-A	Lab Control Sample Dup	92			
MB 280-620736/3-A	Method Blank	89			

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Surrogate Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)
(Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (77-123)
MB 280-621052/3-A	Method Blank	89

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (49-115)
280-179304-1	Area #1 Sample # 1	68
280-179304-2	Area #1 Sample # 2	71
280-179304-3	Area #2 Sample # 1	79
280-179304-4	Area #3 Sample # 1	61
280-179304-4 MS	Area #3 Sample # 1	60
280-179304-4 MS	Area #3 Sample # 1	62
280-179304-4 MSD	Area #3 Sample # 1	54
280-179304-4 MSD	Area #3 Sample # 1	59
280-179304-5	Area #4 Sample # 1	78
280-179304-10	Area #5 Sample # 1	77
280-179304-11	Area #5 Sample # 2	74
280-179304-12	Area #5 Sample # 3	73
280-179304-13	Area #5 Sample # 4	81
280-179304-14	Area #5 Sample # 5	81
280-179304-15	Area #5 Sample # 6	83
280-179304-16	Area #5 Sample # 7	80
280-179304-17	Area #5 Sample # 8	72
LCS 280-620620/2-A	Lab Control Sample	76
LCS 280-620620/3-A	Lab Control Sample	63
MB 280-620620/1-A	Method Blank	80

Surrogate Legend

OTPH = o-Terphenyl

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-621428/1-A

Matrix: Solid

Analysis Batch: 621484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 621428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
Toluene	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58 - 140	08/01/23 07:00	08/01/23 11:31	1
Toluene-d8 (Surr)	98		80 - 126	08/01/23 07:00	08/01/23 11:31	1
4-Bromofluorobenzene (Surr)	110		76 - 127	08/01/23 07:00	08/01/23 11:31	1
Dibromofluoromethane (Surr)	103		75 - 121	08/01/23 07:00	08/01/23 11:31	1

Lab Sample ID: LCS 280-621428/2-A

Matrix: Solid

Analysis Batch: 621484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 621428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0444		mg/Kg		89	75 - 135
Ethylbenzene	0.0500	0.0426		mg/Kg		85	73 - 125
Toluene	0.0500	0.0436		mg/Kg		87	77 - 122
m-Xylene & p-Xylene	0.0500	0.0415		mg/Kg		83	77 - 135
o-Xylene	0.0500	0.0419		mg/Kg		84	75 - 135
Xylenes, Total	0.100	0.0834		mg/Kg		83	76 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		58 - 140
Toluene-d8 (Surr)	101		80 - 126
4-Bromofluorobenzene (Surr)	111		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Lab Sample ID: LCSD 280-621428/3-A

Matrix: Solid

Analysis Batch: 621484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0437		mg/Kg		87	75 - 135	2	20
Ethylbenzene	0.0500	0.0415		mg/Kg		83	73 - 125	3	20
Toluene	0.0500	0.0428		mg/Kg		86	77 - 122	2	20
m-Xylene & p-Xylene	0.0500	0.0402		mg/Kg		80	77 - 135	3	20
o-Xylene	0.0500	0.0414		mg/Kg		83	75 - 135	1	20
Xylenes, Total	0.100	0.0816		mg/Kg		82	76 - 135	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		58 - 140
Toluene-d8 (Surr)	101		80 - 126
4-Bromofluorobenzene (Surr)	112		76 - 127

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-621428/3-A

Matrix: Solid

Analysis Batch: 621484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621428

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	102		75 - 121

Lab Sample ID: MB 280-621562/1-A

Matrix: Solid

Analysis Batch: 621599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 621562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Ethylbenzene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Toluene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
o-Xylene	ND		0.0025		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Xylenes, Total	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 140	08/02/23 07:00	08/02/23 11:40	1
Toluene-d8 (Surr)	98		80 - 126	08/02/23 07:00	08/02/23 11:40	1
4-Bromofluorobenzene (Surr)	109		76 - 127	08/02/23 07:00	08/02/23 11:40	1
Dibromofluoromethane (Surr)	109		75 - 121	08/02/23 07:00	08/02/23 11:40	1

Lab Sample ID: LCS 280-621562/2-A

Matrix: Solid

Analysis Batch: 621599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 621562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0452		mg/Kg		90	75 - 135
Ethylbenzene	0.0500	0.0435		mg/Kg		87	73 - 125
Toluene	0.0500	0.0444		mg/Kg		89	77 - 122
m-Xylene & p-Xylene	0.0500	0.0430		mg/Kg		86	77 - 135
o-Xylene	0.0500	0.0429		mg/Kg		86	75 - 135
Xylenes, Total	0.100	0.0859		mg/Kg		86	76 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		58 - 140
Toluene-d8 (Surr)	102		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Lab Sample ID: LCSD 280-621562/3-A

Matrix: Solid

Analysis Batch: 621599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0450		mg/Kg		90	75 - 135	0	20
Ethylbenzene	0.0500	0.0430		mg/Kg		86	73 - 125	1	20
Toluene	0.0500	0.0441		mg/Kg		88	77 - 122	1	20
m-Xylene & p-Xylene	0.0500	0.0426		mg/Kg		85	77 - 135	1	20
o-Xylene	0.0500	0.0429		mg/Kg		86	75 - 135	0	20

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-621562/3-A

Matrix: Solid

Analysis Batch: 621599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	0.100	0.0855		mg/Kg		86	76 - 135	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	108		58 - 140						
Toluene-d8 (Surr)	102		80 - 126						
4-Bromofluorobenzene (Surr)	111		76 - 127						
Dibromofluoromethane (Surr)	102		75 - 121						

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 280-620736/3-A

Matrix: Solid

Analysis Batch: 620733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 620736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/25/23 19:37	07/25/23 23:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
a,a,a-Trifluorotoluene	89		77 - 123	07/25/23 19:37	07/25/23 23:53	1			

Lab Sample ID: LCS 280-620736/1-A

Matrix: Solid

Analysis Batch: 620733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 620736

Temp: 20.00C									
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			9.84	9.62		mg/Kg		98	75 - 135
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
a,a,a-Trifluorotoluene		92		77 - 123					

Lab Sample ID: LCSD 280-620736/2-A

Matrix: Solid

Analysis Batch: 620733

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 620736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	9.84	9.51		mg/Kg		97	75 - 135	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	92		77 - 123						

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: MB 280-621052/3-A

Matrix: Solid

Analysis Batch: 621045

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 621052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/27/23 22:34	07/28/23 01:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123	07/27/23 22:34	07/28/23 01:13	1

Lab Sample ID: LCS 280-621052/1-A

Matrix: Solid

Analysis Batch: 621045

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 621052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	9.84	9.67		mg/Kg		98	75 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	92		77 - 123

Lab Sample ID: LCSD 280-621052/2-A

Matrix: Solid

Analysis Batch: 621045

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621052

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	9.84	9.32		mg/Kg		95	75 - 135	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	92		77 - 123

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 280-620620/1-A

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 620620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.0		mg/Kg		07/25/23 11:29	07/31/23 21:22	1
Motor Oil (C20-C38)	ND		24		mg/Kg		07/25/23 11:29	07/31/23 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		49 - 115	07/25/23 11:29	07/31/23 21:22	1

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)
(Continued)

Lab Sample ID: LCS 280-620620/2-A

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	133	93.6		mg/Kg		70	53 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	76		49 - 115

Lab Sample ID: LCS 280-620620/3-A

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Motor Oil (C20-C38)	334	189		mg/Kg		57	57 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	63		49 - 115

Lab Sample ID: 280-179304-4 MS

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Area #3 Sample # 1

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	34	F1	130	106		mg/Kg		56	56 - 115

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	60		49 - 115

Lab Sample ID: 280-179304-4 MS

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Area #3 Sample # 1

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Motor Oil (C20-C38)	97		328	292		mg/Kg		60	57 - 115

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	62		49 - 115

Lab Sample ID: 280-179304-4 MSD

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Area #3 Sample # 1

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	34	F1	129	102	F1	mg/Kg		53	56 - 115	4	23

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)
(Continued)

Lab Sample ID: 280-179304-4 MSD

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Area #3 Sample # 1

Prep Type: Total/NA

Prep Batch: 620620

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	54		49 - 115

Lab Sample ID: 280-179304-4 MSD

Matrix: Solid

Analysis Batch: 621262

Client Sample ID: Area #3 Sample # 1

Prep Type: Total/NA

Prep Batch: 620620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Motor Oil (C20-C38)	97		326	294		mg/Kg		60	57 - 115	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	59		49 - 115								

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MRL 280-620862/3

Matrix: Solid

Analysis Batch: 620862

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	5.32		mg/L		106	50 - 150

Lab Sample ID: MB 280-620708/3-A

Matrix: Solid

Analysis Batch: 620862

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			07/26/23 19:25	1

Lab Sample ID: LCS 280-620708/1-A

Matrix: Solid

Analysis Batch: 620862

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1000	1060		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 280-620708/2-A

Matrix: Solid

Analysis Batch: 620862

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	1060		mg/Kg		106	90 - 110	0	10

Lab Sample ID: 280-179304-1 MS

Matrix: Solid

Analysis Batch: 620862

Client Sample ID: Area #1 Sample # 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		502	583		mg/Kg		116	80 - 120

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QC Sample Results

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

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

Lab Sample ID: 280-179304-1 MSD

Matrix: Solid

Analysis Batch: 620862

Client Sample ID: Area #1 Sample # 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		502	587		mg/Kg		117	80 - 120	1	20

Lab Sample ID: 280-179304-1 DU

Matrix: Solid

Analysis Batch: 620862

Client Sample ID: Area #1 Sample # 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	ND		ND		mg/Kg		NC	10

Method: Moisture - Percent Moisture

Lab Sample ID: 280-179304-17 DU

Matrix: Solid

Analysis Batch: 620681

Client Sample ID: Area #5 Sample # 8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.3		4.3	F3	%		22	20
Percent Solids	94.7		95.7		%		1	20

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QC Association Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

GC/MS VOA

Prep Batch: 621428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	5030B	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	5030B	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	5030B	
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	5030B	
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	5030B	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	5030B	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	5030B	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	5030B	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	5030B	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	5030B	
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	5030B	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	5030B	
MB 280-621428/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 280-621428/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-621428/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 621484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	8260B	621428
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	8260B	621428
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	8260B	621428
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	8260B	621428
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	8260B	621428
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	8260B	621428
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	8260B	621428
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	8260B	621428
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	8260B	621428
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	8260B	621428
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	8260B	621428
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	8260B	621428
MB 280-621428/1-A	Method Blank	Total/NA	Solid	8260B	621428
LCS 280-621428/2-A	Lab Control Sample	Total/NA	Solid	8260B	621428
LCSD 280-621428/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	621428

Prep Batch: 621562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	5030B	
MB 280-621562/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 280-621562/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-621562/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 621599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	8260B	621562
MB 280-621562/1-A	Method Blank	Total/NA	Solid	8260B	621562
LCS 280-621562/2-A	Lab Control Sample	Total/NA	Solid	8260B	621562
LCSD 280-621562/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	621562

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QC Association Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

GC VOA

Analysis Batch: 620733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	8015C	620736
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	8015C	620736
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	8015C	620736
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	8015C	620736
MB 280-620736/3-A	Method Blank	Total/NA	Solid	8015C	620736
LCS 280-620736/1-A	Lab Control Sample	Total/NA	Solid	8015C	620736
LCSD 280-620736/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	620736

Prep Batch: 620736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	5035	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	5035	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	5035	
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	5035	
MB 280-620736/3-A	Method Blank	Total/NA	Solid	5035	
LCS 280-620736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-620736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 621045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	8015C	621052
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	8015C	621052
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	8015C	621052
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	8015C	621052
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	8015C	621052
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	8015C	621052
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	8015C	621052
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	8015C	621052
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	8015C	621052
MB 280-621052/3-A	Method Blank	Total/NA	Solid	8015C	621052
LCS 280-621052/1-A	Lab Control Sample	Total/NA	Solid	8015C	621052
LCSD 280-621052/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	621052

Prep Batch: 621052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	5035	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	5035	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	5035	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	5035	
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	5035	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	5035	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	5035	
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	5035	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	5035	
MB 280-621052/3-A	Method Blank	Total/NA	Solid	5035	
LCS 280-621052/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-621052/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Denver

QC Association Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

GC Semi VOA

Prep Batch: 620620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	3546	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	3546	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	3546	
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	3546	
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	3546	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	3546	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	3546	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	3546	
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	3546	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	3546	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	3546	
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	3546	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	3546	
MB 280-620620/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-620620/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 280-620620/3-A	Lab Control Sample	Total/NA	Solid	3546	
280-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	3546	
280-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	3546	
280-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	3546	
280-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	3546	

Analysis Batch: 621262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	8015C	620620
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	8015C	620620
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	8015C	620620
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	8015C	620620
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	8015C	620620
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	8015C	620620
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	8015C	620620
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	8015C	620620
MB 280-620620/1-A	Method Blank	Total/NA	Solid	8015C	620620
LCS 280-620620/2-A	Lab Control Sample	Total/NA	Solid	8015C	620620
LCS 280-620620/3-A	Lab Control Sample	Total/NA	Solid	8015C	620620
280-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
280-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	8015C	620620

General Chemistry

Analysis Batch: 620681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	Moisture	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	Moisture	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	Moisture	

Eurofins Denver

QC Association Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

General Chemistry (Continued)

Analysis Batch: 620681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	Moisture	
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	Moisture	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	Moisture	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	Moisture	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	Moisture	
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	Moisture	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	Moisture	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	Moisture	
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	Moisture	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	Moisture	
280-179304-17 DU	Area #5 Sample # 8	Total/NA	Solid	Moisture	

Leach Batch: 620708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Soluble	Solid	DI Leach	
280-179304-2	Area #1 Sample # 2	Soluble	Solid	DI Leach	
280-179304-3	Area #2 Sample # 1	Soluble	Solid	DI Leach	
280-179304-4	Area #3 Sample # 1	Soluble	Solid	DI Leach	
280-179304-5	Area #4 Sample # 1	Soluble	Solid	DI Leach	
280-179304-10	Area #5 Sample # 1	Soluble	Solid	DI Leach	
280-179304-11	Area #5 Sample # 2	Soluble	Solid	DI Leach	
280-179304-12	Area #5 Sample # 3	Soluble	Solid	DI Leach	
280-179304-13	Area #5 Sample # 4	Soluble	Solid	DI Leach	
280-179304-14	Area #5 Sample # 5	Soluble	Solid	DI Leach	
280-179304-15	Area #5 Sample # 6	Soluble	Solid	DI Leach	
280-179304-16	Area #5 Sample # 7	Soluble	Solid	DI Leach	
280-179304-17	Area #5 Sample # 8	Soluble	Solid	DI Leach	
MB 280-620708/3-A	Method Blank	Soluble	Solid	DI Leach	
LCS 280-620708/1-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 280-620708/2-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
280-179304-1 MS	Area #1 Sample # 1	Soluble	Solid	DI Leach	
280-179304-1 MSD	Area #1 Sample # 1	Soluble	Solid	DI Leach	
280-179304-1 DU	Area #1 Sample # 1	Soluble	Solid	DI Leach	

Analysis Batch: 620862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Soluble	Solid	9056A	620708
280-179304-2	Area #1 Sample # 2	Soluble	Solid	9056A	620708
280-179304-3	Area #2 Sample # 1	Soluble	Solid	9056A	620708
280-179304-4	Area #3 Sample # 1	Soluble	Solid	9056A	620708
280-179304-5	Area #4 Sample # 1	Soluble	Solid	9056A	620708
280-179304-10	Area #5 Sample # 1	Soluble	Solid	9056A	620708
280-179304-11	Area #5 Sample # 2	Soluble	Solid	9056A	620708
280-179304-12	Area #5 Sample # 3	Soluble	Solid	9056A	620708
280-179304-13	Area #5 Sample # 4	Soluble	Solid	9056A	620708
280-179304-14	Area #5 Sample # 5	Soluble	Solid	9056A	620708
280-179304-15	Area #5 Sample # 6	Soluble	Solid	9056A	620708
280-179304-16	Area #5 Sample # 7	Soluble	Solid	9056A	620708
280-179304-17	Area #5 Sample # 8	Soluble	Solid	9056A	620708
MB 280-620708/3-A	Method Blank	Soluble	Solid	9056A	620708
LCS 280-620708/1-A	Lab Control Sample	Soluble	Solid	9056A	620708

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QC Association Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

General Chemistry (Continued)

Analysis Batch: 620862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-620708/2-A	Lab Control Sample Dup	Soluble	Solid	9056A	620708
MRL 280-620862/3	Lab Control Sample	Total/NA	Solid	9056A	
280-179304-1 MS	Area #1 Sample # 1	Soluble	Solid	9056A	620708
280-179304-1 MSD	Area #1 Sample # 1	Soluble	Solid	9056A	620708
280-179304-1 DU	Area #1 Sample # 1	Soluble	Solid	9056A	620708

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Lab Chronicle

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #1 Sample # 1

Lab Sample ID: 280-179304-1

Date Collected: 07/19/23 13:00

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.032 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 20:10	JLS	EET DEN
Total/NA	Prep	5035			5.711 g	5 mL	620736	07/19/23 13:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 02:40	JPH	EET DEN
Total/NA	Prep	3546			15.2 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 22:31	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 19:42	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #1 Sample # 2

Lab Sample ID: 280-179304-2

Date Collected: 07/19/23 13:10

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.958 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 16:02	JLS	EET DEN
Total/NA	Prep	5035			3.706 g	5 mL	620736	07/19/23 13:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:04	JPH	EET DEN
Total/NA	Prep	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 22:54	CAS	EET DEN
Soluble	Leach	DI Leach			9.97 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 20:50	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #2 Sample # 1

Lab Sample ID: 280-179304-3

Date Collected: 07/19/23 13:20

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.048 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 16:23	JLS	EET DEN
Total/NA	Prep	5035			4.456 g	5 mL	620736	07/19/23 13:20	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:28	JPH	EET DEN
Total/NA	Prep	3546			15.4 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 23:16	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 21:07	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Eurofins Denver

Lab Chronicle

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #3 Sample # 1

Lab Sample ID: 280-179304-4

Date Collected: 07/19/23 13:25

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.023 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 16:44	JLS	EET DEN
Total/NA	Prep	5035			4.521 g	5 mL	620736	07/19/23 13:25	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:52	JPH	EET DEN
Total/NA	Prep	3546			15.5 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 23:39	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 21:24	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #4 Sample # 1

Lab Sample ID: 280-179304-5

Date Collected: 07/19/23 13:30

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.939 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:04	JLS	EET DEN
Total/NA	Prep	5035			5.127 g	5 mL	621052	07/19/23 13:30	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:01	JPH	EET DEN
Total/NA	Prep	3546			15.5 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 01:32	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:15	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 1

Lab Sample ID: 280-179304-10

Date Collected: 07/19/23 15:00

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.055 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:25	JLS	EET DEN
Total/NA	Prep	5035			4.777 g	5 mL	621052	07/19/23 15:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:25	JPH	EET DEN
Total/NA	Prep	3546			15.7 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 01:55	CAS	EET DEN
Soluble	Leach	DI Leach			10.00 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:32	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

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Lab Chronicle

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sample # 2

Lab Sample ID: 280-179304-11

Date Collected: 07/19/23 15:10

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.918 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:46	JLS	EET DEN
Total/NA	Prep	5035			4.824 g	5 mL	621052	07/19/23 15:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:49	JPH	EET DEN
Total/NA	Prep	3546			15.1 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 02:18	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:49	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 3

Lab Sample ID: 280-179304-12

Date Collected: 07/19/23 15:20

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.033 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 18:06	JLS	EET DEN
Total/NA	Prep	5035			5.043 g	5 mL	621052	07/19/23 15:20	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 03:13	JPH	EET DEN
Total/NA	Prep	3546			15.1 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 02:40	CAS	EET DEN
Soluble	Leach	DI Leach			10.01 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:06	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 4

Lab Sample ID: 280-179304-13

Date Collected: 07/19/23 15:30

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.912 g	5 mL	621562	08/02/23 09:50	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621599	08/02/23 14:05	JLS	EET DEN
Total/NA	Prep	5035			4.566 g	5 mL	621052	07/19/23 15:30	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 03:36	JPH	EET DEN
Total/NA	Prep	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 03:03	CAS	EET DEN
Soluble	Leach	DI Leach			9.96 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:23	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

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Lab Chronicle

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sample # 5

Lab Sample ID: 280-179304-14

Date Collected: 07/19/23 15:40

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.015 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 18:48	JLS	EET DEN
Total/NA	Prep	5035			4.644 g	5 mL	621052	07/19/23 15:40	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 04:00	JPH	EET DEN
Total/NA	Prep	3546			15.2 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 03:26	CAS	EET DEN
Soluble	Leach	DI Leach			10.04 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:40	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 6

Lab Sample ID: 280-179304-15

Date Collected: 07/19/23 15:50

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.844 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 19:08	JLS	EET DEN
Total/NA	Prep	5035			5.248 g	5 mL	621052	07/19/23 15:50	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 04:24	JPH	EET DEN
Total/NA	Prep	3546			5.0 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 04:33	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:57	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 7

Lab Sample ID: 280-179304-16

Date Collected: 07/19/23 16:00

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.056 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 19:29	JLS	EET DEN
Total/NA	Prep	5035			4.593 g	5 mL	621052	07/19/23 16:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 07:56	JPH	EET DEN
Total/NA	Prep	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 04:56	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/27/23 00:14	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Eurofins Denver

Lab Chronicle

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sample # 8

Lab Sample ID: 280-179304-17

Date Collected: 07/19/23 16:10

Matrix: Solid

Date Received: 07/20/23 09:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.972 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 19:49	JLS	EET DEN
Total/NA	Prep	5035			4.918 g	5 mL	621052	07/19/23 16:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 17:17	JPH	EET DEN
Total/NA	Prep	3546			15.4 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 05:18	CAS	EET DEN
Soluble	Leach	DI Leach			9.96 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/27/23 00:31	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 13:01	ZPM	EET DEN

Laboratory References:

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

Eurofins Denver

Accreditation/Certification Summary

Client: Wapiti Operating LLC
Project/Site: Produced Water Spill

Job ID: 280-179304-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23 *
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23 *
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-019	01-08-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	12037	06-14-23 *
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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

Eurofins Denver

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

Chain of Custody Record



Environment Testing
TestAmerica

Client Information Client Contact: Mr Randy Madison Company: Wapiti Operating, LLC Address: P O Box 190 309 Silver Street City: Raton State, Zip: NM 87740 Phone: 575-445-6706(Tel) Email rmadison@wapitienergy.com Project Name: Produced Water Spill Site:		Sampler Randy L. Madison Phone: 1-575-445-6706		Lab Pk: Turner Shelby R E-Mail shelly.turner@et.eurofinsus.com		Carrier Tracking No(s):		COC No: Page:	
		Due Date Requested:		TAT Requested (days):		PO #: Pay by Credit Card		WO #:	
Project #: 28020400		Project #: 28020400		SSOW#:		Analysis Requested		Preservation Codes:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, B=BT tissue, A=Air)	
Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		9056A, 28D Chloride		8015C_DRO Diesel and Motor Oil Range Organics	
8015C_GRO Gasoline Range Organics		9260B BTEX		% Moisture		Total Number of Containers		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDTA	
M Hexane N None O AsNaC2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)		Other:		Special Instructions/Note:		280-179304 Chain of Custody		280-179304 Chain of Custody	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Empty Kit Relinquished by:		Date:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		5.8°C F.O. IRTU		5.8°C F.O. IRTU	

Ver: 01/16/2019

Eurofins TestAmerica, Denver

4955 Yarrow Street

Arvada, CO 80002

Phone (303) 736-0100 Fax (303) 431 7171

Chain of Custody Record

Environment Testing
TestAmerica

Client Information		Sampler: <u>Randy L. Madison</u>		Lab PM: <u>Turner Shelby R</u>		Carrier Tracking No(s):		COC No:			
Client Contact: <u>Mr Randy Madison</u>		Phone: <u>1-575-445-6706</u>		E-Mail: <u>shelby.turner@et.eurofinsus.com</u>				Page:			
Company: <u>Wapiti Operating LLC</u>		Due Date Requested:		Analysis Requested				Job #:			
Address: <u>P.O. Box 190 309 Silver Street</u>		TAT Requested (days):		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 9056A_28D Chloride 8015C_DRO Diesel and Motor Oil Range Organics 8015C_GRO Gasoline Range Organics 8260B BTEX % Moisture		Total Number of Containers		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2E2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
City: <u>Raton</u>		PO #:									
State, Zip: <u>NM 87740</u>		Pay by Credit Card									
Phone: <u>575-445-6706(Tel)</u>		WO #:									
Email: <u>rmadison@wapitienergy.com</u>		Project #:									
Project Name: <u>Produced Water Spill</u>		SSOW#:									
Site:											
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solids, O=water/sol)	Preservation Code:					
<u>Area #5 Sample #2</u>		<u>7/19/23</u>	<u>1510</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #3</u>		<u>7/19/23</u>	<u>1520</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #4</u>		<u>7/19/23</u>	<u>1530</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #5</u>		<u>7/19/23</u>	<u>1540</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #6</u>		<u>7/19/23</u>	<u>1550</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #7</u>		<u>7/19/23</u>	<u>1600</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
<u>Area #5 Sample #8</u>		<u>7/19/23</u>	<u>1610</u>	<u>C</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>F</u>	<u>N</u>	<u>N</u>	
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I II III IV Other (specify)						Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/24/23 0956</u>		Company: <u>Wapiti</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7-20-23 0958</u>		Company: <u>ETADEN</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <u>5.8°C @ 0.0 IRTVI</u> <u>0.8°C</u>							

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Wapiti Operating LLC

Job Number: 280-179304-1

Login Number: 179304

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
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	Ink smudged on GRO vials but the labels are still readable.
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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 255636

CONDITIONS

Operator: Wapiti Operating, LLC 1251 Lumpkin Rd Houston, TX 77043	OGRID: 328741
	Action Number: 255636
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/5/2023