

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company: Elm Ridge Exploration	Contact: Dianna Hamilton 330-2736
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: AXI H9	Facility Type: Pipeline

Surface Owner: Jicarilla	Mineral Owner:	API No.
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30-039-05220

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	32	24N	5W					

Latitude 36.264 Longitude -107.388

NATURE OF RELEASE

Type of Release: unknown at this time	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: reducer near valve	Date and Hour of Occurrence	6.6.2017 2:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, via email.	
By Whom? Dianna Hamilton	Date and Hour 6.8.17 3:36pm	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* Yes, this line does run into the wash. While excavating to replace 4" line, discoloration and hydrocarbon odor was discovered.

Describe Cause of Problem and Remedial Action Taken.* On 6/6/17 approximately 2:30 p.m. working on a lateral line from the Martin Whitaker 57 and the AXI H-9 DJR discovered what appeared to be discolored soil near the pipeline we were working on. The soil had a foul odor, reported to DJR supervisor Allen Lain. Reported to DJR Health, Safety & Environmental rep on 6.7.17. Dianna Hamilton notified Jicarilla rep, Hobson Sandoval. Soil sampling will be conducted on 6.13.17. See attached lab and full report. The base of the excavation was slightly above standard, permission to spray Potassium permanganate from Jicarilla was given. We sprayed on June 30th. Backfill soil was taken from J6 borrow pit with permission from Hobson Sandoval.

Describe Area Affected and Cleanup Action Taken.* TBD

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Dianna Hamilton</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Dianna Hamilton	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: HSE Coordinator	Approval Date: 8/4/17	Expiration Date:
E-mail Address: dhamilton@djrlc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 26, 2017 Phone: 505-330-2736		

* Attach Additional Sheets If Necessary

#NCS 1721636937

OIL CONS. DIV DIST. 3

JUL 27 2017

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Elmridge Exploration CO, 2001 E. Blanco Blvd, PO Box 1280 Bloomfield NM 87413
2. Originating Site: AXI H9
3. Location of Material (Street Address, City, State or ULSTR): S32 T24N R5W
4. Source and Description of Waste: Hydrocarbon impacted soil from the release of produced water and crude oil mixture due to pipeline release. Estimated Volume <u>40-50</u> ^{yd³} bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Dianna Hamilton</u> , representative or authorized agent for <u>Elm Ridge Exploration</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Dianna R. Hamilton</u> , representative for <u>DJR Operating</u> authorize Envirotech to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Bailey's

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Permit # NM-01-0011
Address of Facility: #43 Road 7175 South of Bloomfield NM 87413
Method of Treatment and/or Disposal:

OIL CONS. DIV DIST. 3

JUL 27 2017

- Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent



July 10, 2017

Dianna Hamilton
DJ Resources, LLC
2001 E. Blanco Blvd
Bloomfield, New Mexico 87413

*Via electronic mail with delivery confirmation receipt to:
dhamilton@djrlc.com*

OIL CONS. DIV DIST. 3

JUL 27 2017

**RE: Excavation Clearance Report
AXI-H9 Lateral Pipeline Release
SW¼ SW¼, Section 32, T24N, R5W
Rio Arriba County, New Mexico**

Dear Ms. Hamilton:

On June 13, 2017, Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavation area associated with petroleum contaminated soils at the DJ Resources AXI-H9 Lateral Pipeline release location. The release volume was unknown. In addition, a water sample was collected on June 15, 2017, from groundwater which had accumulated within the excavation limits in the immediate vicinity of the release location.

1.0 Site Information

1.1 Location

Legal Description – SW¼ SW¼, Section 32, T24N, R5W, Rio Arriba County, New Mexico

Release Latitude/Longitude – N36.26487 and W107.38830, respectively

Land Jurisdiction – Jicarilla Apache Nation

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2017

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

1.2 Risk Ranking

1.2.1 JANOGA Action Levels

The DJ Resources AXI-H9 Lateral Pipeline release is located on Jicarilla Apache Nation lands, and soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration (JANOGA). JANOGA action levels for soils currently follow the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993). Per JANOGA, all locations within Jicarilla Apache Nation lands receive a ranking score of 20:

- 100 parts per million (ppm) volatile organic compounds (VOCs) or 10 mg/kg benzene and 50 mg/kg total BTEX (benzene, toluene, ethylbenzene, and xylenes); and
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO).

JANOGA water quality standards currently follow New Mexico Water Quality Control Commission (WQCC).

1.2.2 Surface and Groundwater

The AXI-H9 pipeline release location occurred within the Canyon Largo Wash floodplain. Depth to water is approximately seven feet below ground surface (bgs), as determined by AES and DJ Resources personnel upon recharge of water within the excavation extents. Additional unrelated release assessments conducted by AES in the immediate vicinity correlate with the shallow depth to water, approximately 5 to 10 feet bgs.

1.3 Excavation Clearance

On June 13, 2017, DJ Resources contractors completed an excavation along the pipeline, and AES personnel collected a total of five confirmation soil samples for laboratory analysis from the walls and base of the excavation. The final excavation measured approximately 10 feet by 43 feet by 7 feet deep. Sample locations and final excavation extents are presented on Figure 2.

2.0 Soil and Water Sampling

On June 13, 2017, five soil samples (SC-1 through SC-5) were collected from the walls and base of the excavation. On June 15, 2017, one grab water sample (Water Sample) was collected from groundwater which had collected in the immediate vicinity of the release location. All samples were submitted for laboratory analysis.

2.1 Laboratory Analyses

The samples collected for laboratory analysis (SC-1 through SC-5 and Water Sample) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH as GRO, DRO, and MRO per USEPA Method 8015M/D.

2.2 Laboratory Analytical Results

Laboratory analytical results are summarized in Tables 1 and 2 and on Figure 2. The laboratory analytical reports are attached.

Table 1. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 AXI-H9 Lateral Pipeline Release Excavation Clearance, June 2017

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH – GRO (mg/kg)	TPH – DRO (mg/kg)	TPH – MRO (mg/kg)
JANOGA Action Level*			10	50	100		
SC-1	6/13/17	0 to 7	<0.024	<0.212	<4.7	<9.5	<48
SC-2	6/13/17	0 to 7	<0.023	<0.207	<4.6	<9.9	<49
SC-3	6/13/17	0 to 7	<0.024	<0.219	<4.9	<9.5	<48
SC-4	6/13/17	0 to 7	<0.025	<0.225	<5.0	<9.3	<47
SC-5	6/13/17	7	0.26	7.12	200	70	<46

*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

Table 2. Water Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 AXI-H9 Lateral Pipeline Release Excavation Clearance, June 2017

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	TPH – GRO (mg/L)	TPH – DRO (mg/L)	TPH – MRO (mg/L)
WQCC Standards		10	750	750	620	NE		
Water Sample	6/15/17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

NE – Not Established

3.0 Conclusions and Recommendations

On June 13, 2017, AES completed confirmation sampling of the excavation area associated with petroleum contaminated soils at the DJ Resources AXI-H9 Lateral Pipeline release location. Action levels for releases are determined by JANOGA and currently reflect a site ranking of 20 per NMOCD *Guideline for Remediation of Leaks, Spills and Releases* (August 1993).

Soil laboratory analyses for SC-1 through SC-5 showed benzene and total BTEX concentrations below the JANOGA action levels of 10 mg/kg and 50 mg/kg, respectively, with the highest total BTEX concentration noted in SC-5 (final base) with 7.12 mg/kg. TPH (GRO/DRO/MRO) concentrations were below the JANOGA (NMOCD) action level of 100 mg/kg in all soil samples, except SC-5 (final base). A water sample (Water Sample) was collected on June 15, 2017, from the groundwater within the excavation limits in the immediate vicinity of the release location. Laboratory analytical results showed dissolved phase benzene and BTEX concentrations were below the applicable WQCC standards of 10 µg/L and 50 µg/L, respectively, in the Water Sample.

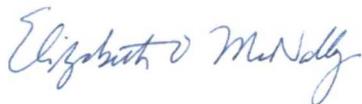
Based on the final laboratory analytical results of the excavation of petroleum contaminated soils at the AXI-H9 Lateral Pipeline release location, benzene and total BTEX were below the applicable JANOGA action levels for the final base and sidewalls. However, TPH exceeded the JANOGA action level for the base (270 mg/kg GRO and DRO), but approval was obtained to apply a potassium permanganate solution and then backfill the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Elizabeth McNally at (505) 564-2281.

Sincerely,



David J. Reese
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

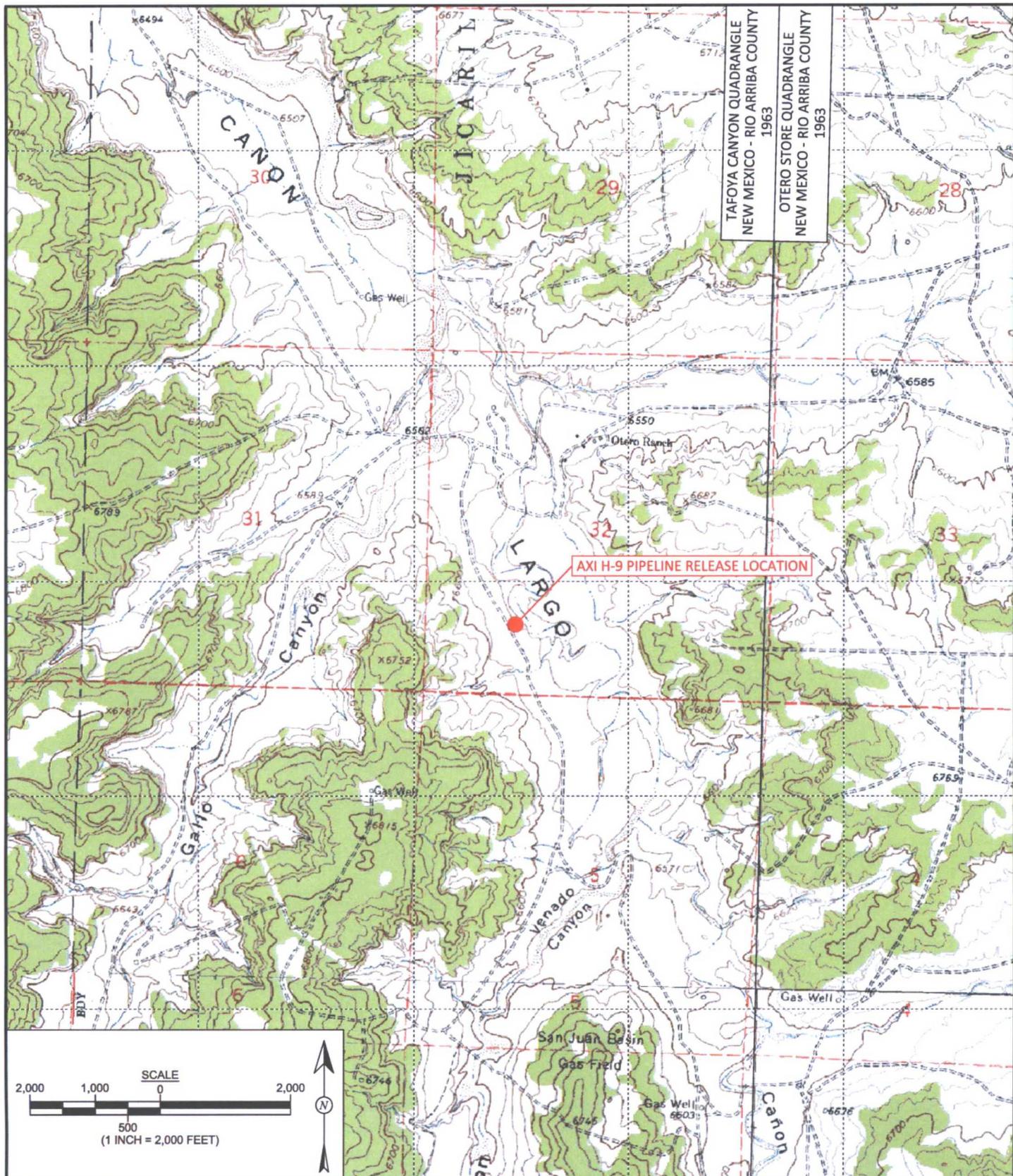
Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2017

Hall Analytical Report 1706908

Hall Analytical Report 1706922

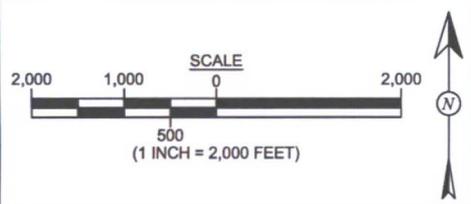
C:\Users\emcnally\Dropbox (Animas Environmental)\0000 aes server client projects dropbox\2017 Client
Projects\DJ Resources (Bee Line)\AXI H-9 Pipeline Release\DJ Resources AXI H-9 Lateral Pipeline Release
Final Excavation Report 071017.docx



TALOYA CANYON QUADRANGLE
NEW MEXICO - RIO ARRIBA COUNTY
1963

OTERO STORE QUADRANGLE
NEW MEXICO - RIO ARRIBA COUNTY
1963

AXI H-9 PIPELINE RELEASE LOCATION




**animas
environmental
services**

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: June 23, 2017
REVISIONS BY: C. Lameman	DATE REVISED: July 5, 2017
CHECKED BY: E. McNally	DATE CHECKED: July 5, 2017
APPROVED BY: E. McNally	DATE APPROVED: July 5, 2017

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
DJ RESOURCES
AXI H-9 PIPELINE
SW¼ SW¼, SECTION 32, T24N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.26487, W107.38830

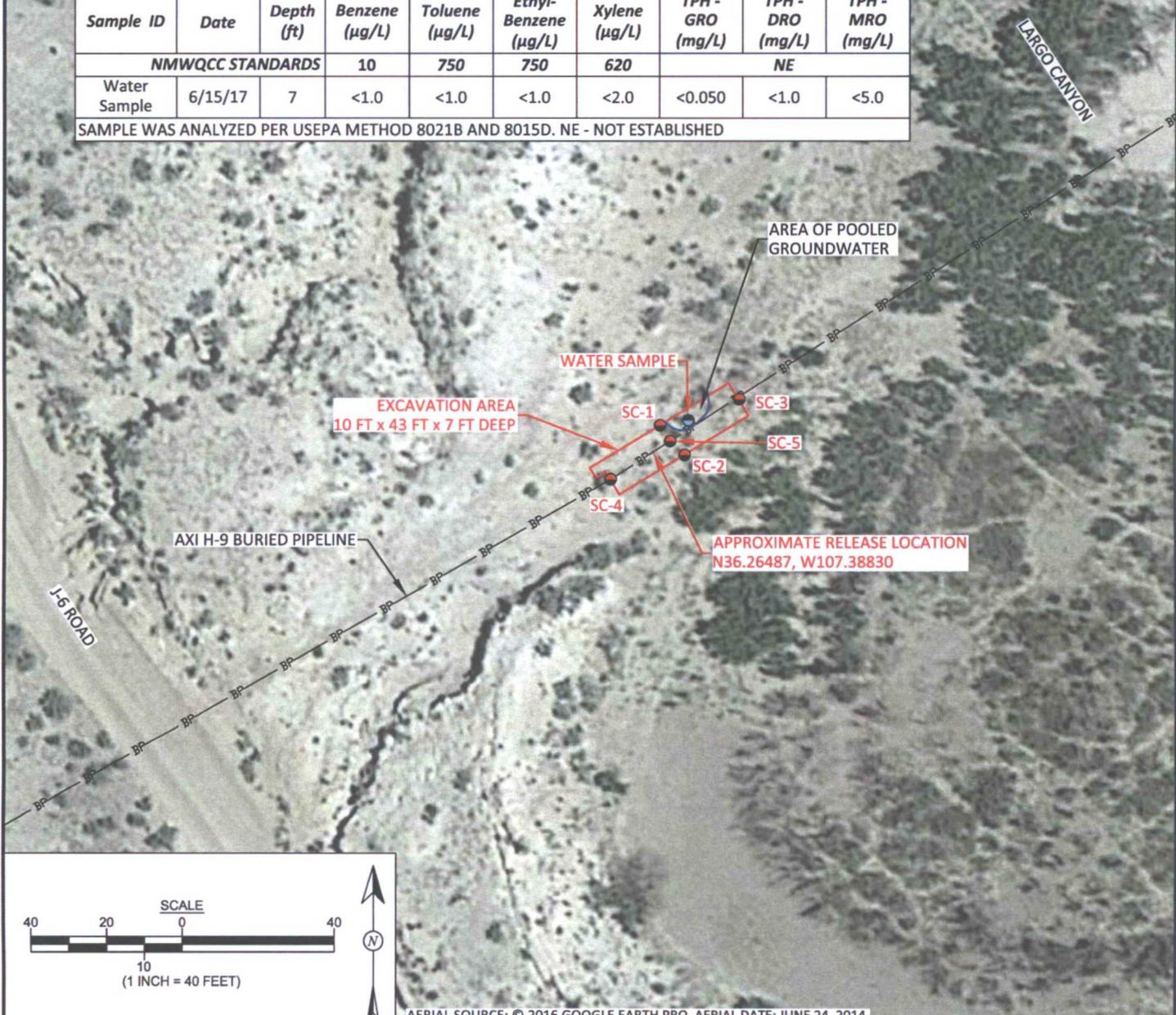
Soil Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
JANOGA ACTION LEVEL			10	50	100		
SC-1	6/13/17	0 to 7	<0.024	<0.212	<4.7	<9.5	<48
SC-2	6/13/17	0 to 7	<0.023	<0.207	<4.6	<9.9	<49
SC-3	6/13/17	0 to 7	<0.024	<0.219	<4.9	<9.5	<48
SC-4	6/13/17	0 to 7	<0.025	<0.225	<5.0	<9.3	<47
SC-5	6/13/17	7	0.26	7.12	200	70	<46

ALL SOIL SAMPLES WERE COMPOSITE SAMPLES. ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.

LEGEND	
	SOIL SAMPLE LOCATION
	WATER SAMPLE LOCATION

Water Laboratory Analytical Results									
Sample ID	Date	Depth (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPH - GRO (mg/L)	TPH - DRO (mg/L)	TPH - MRO (mg/L)
NMWQCC STANDARDS			10	750	750	620	NE		
Water Sample	6/15/17	7	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

SAMPLE WAS ANALYZED PER USEPA METHOD 8021B AND 8015D. NE - NOT ESTABLISHED



AERIAL SOURCE: © 2016 GOOGLE EARTH PRO, AERIAL DATE: JUNE 24, 2014.



animas environmental services
 Farmington, NM • Durango, CO
 animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: June 23, 2017
REVISIONS BY: C. Lameman	DATE REVISED: July 5, 2017
CHECKED BY: E. McNally	DATE CHECKED: July 5, 2017
APPROVED BY: E. McNally	DATE APPROVED: July 5, 2017

FIGURE 2

**AERIAL SITE MAP
 JUNE 2017**
 DJ RESOURCES
 AXI H-9 PIPELINE
 SW¼ SW¼, SECTION 32, T24N, R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.26487, W107.38830



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 21, 2017

Elizabeth McNally
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: DJ Resources AXI H 9 Pipeline

OrderNo.: 1706908

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/15/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1706908
 Date Reported: 6/21/2017

CLIENT: Animas Environmental Services
 Project: DJ Resources AXI H 9 Pipeline
 Lab ID: 1706908-001

Client Sample ID: SC-1
 Collection Date: 6/13/2017 10:25:00 AM
 Received Date: 6/15/2017 9:00:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/20/2017 12:54:12 PM	32362
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2017 12:54:12 PM	32362
Surr: DNOP	90.8	70-130		%Rec	1	6/20/2017 12:54:12 PM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2017 1:25:28 PM	32325
Surr: BFB	95.6	54-150		%Rec	1	6/19/2017 1:25:28 PM	32325
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/19/2017 1:25:28 PM	32325
Toluene	ND	0.047		mg/Kg	1	6/19/2017 1:25:28 PM	32325
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2017 1:25:28 PM	32325
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2017 1:25:28 PM	32325
Surr: 4-Bromofluorobenzene	120	66.6-132		%Rec	1	6/19/2017 1:25:28 PM	32325

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** SC-2
Project: DJ Resources AXI H 9 Pipeline **Collection Date:** 6/13/2017 10:30:00 AM
Lab ID: 1706908-002 **Matrix:** SOIL **Received Date:** 6/15/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2017 2:48:49 PM	32362
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2017 2:48:49 PM	32362
Surr: DNOP	90.9	70-130		%Rec	1	6/20/2017 2:48:49 PM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2017 2:38:20 PM	32325
Surr: BFB	98.1	54-150		%Rec	1	6/19/2017 2:38:20 PM	32325
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/19/2017 2:38:20 PM	32325
Toluene	ND	0.046		mg/Kg	1	6/19/2017 2:38:20 PM	32325
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2017 2:38:20 PM	32325
Xylenes, Total	ND	0.092		mg/Kg	1	6/19/2017 2:38:20 PM	32325
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	6/19/2017 2:38:20 PM	32325

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: DJ Resources AXI H 9 Pipeline

Collection Date: 6/13/2017 10:35:00 AM

Lab ID: 1706908-003

Matrix: SOIL

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/20/2017 3:17:46 PM	32362
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2017 3:17:46 PM	32362
Surr: DNOP	89.0	70-130		%Rec	1	6/20/2017 3:17:46 PM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2017 3:51:17 PM	32325
Surr: BFB	98.4	54-150		%Rec	1	6/19/2017 3:51:17 PM	32325
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/19/2017 3:51:17 PM	32325
Toluene	ND	0.049		mg/Kg	1	6/19/2017 3:51:17 PM	32325
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2017 3:51:17 PM	32325
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2017 3:51:17 PM	32325
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	6/19/2017 3:51:17 PM	32325

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706908

Date Reported: 6/21/2017

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: DJ Resources AXI H 9 Pipeline

Collection Date: 6/13/2017 10:40:00 AM

Lab ID: 1706908-004

Matrix: SOIL

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/20/2017 3:46:35 PM	32362
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2017 3:46:35 PM	32362
Surr: DNOP	89.5	70-130		%Rec	1	6/20/2017 3:46:35 PM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2017 4:15:37 PM	32325
Surr: BFB	94.6	54-150		%Rec	1	6/19/2017 4:15:37 PM	32325
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/19/2017 4:15:37 PM	32325
Toluene	ND	0.050		mg/Kg	1	6/19/2017 4:15:37 PM	32325
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2017 4:15:37 PM	32325
Xylenes, Total	ND	0.10		mg/Kg	1	6/19/2017 4:15:37 PM	32325
Surr: 4-Bromofluorobenzene	120	66.6-132		%Rec	1	6/19/2017 4:15:37 PM	32325

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	• Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1706908
 Date Reported: 6/21/2017

CLIENT: Animas Environmental Services **Client Sample ID:** SC-5
Project: DJ Resources AXI H 9 Pipeline **Collection Date:** 6/13/2017 10:45:00 AM
Lab ID: 1706908-005 **Matrix:** SOIL **Received Date:** 6/15/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	70	9.1		mg/Kg	1	6/20/2017 4:15:40 PM	32362
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/20/2017 4:15:40 PM	32362
Surr: DNOP	90.8	70-130		%Rec	1	6/20/2017 4:15:40 PM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	200	48		mg/Kg	10	6/19/2017 10:12:31 AM	32325
Surr: BFB	174	54-150	S	%Rec	10	6/19/2017 10:12:31 AM	32325
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.26	0.24		mg/Kg	10	6/19/2017 10:12:31 AM	32325
Toluene	1.3	0.48		mg/Kg	10	6/19/2017 10:12:31 AM	32325
Ethylbenzene	0.76	0.48		mg/Kg	10	6/19/2017 10:12:31 AM	32325
Xylenes, Total	4.8	0.96		mg/Kg	10	6/19/2017 10:12:31 AM	32325
Surr: 4-Bromofluorobenzene	125	66.6-132		%Rec	10	6/19/2017 10:12:31 AM	32325

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1706908
 21-Jun-17

Client: Animas Environmental Services
 Project: DJ Resources AXI H 9 Pipeline

Sample ID	LCS-32362		SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS		Batch ID: 32362	RunNo: 43629						
Prep Date:	6/19/2017		Analysis Date: 6/20/2017	SeqNo: 1374617	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	73.2	114			
Surr: DNOP	4.9		5.000		97.7	70	130			

Sample ID	MB-32362		SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	PBS		Batch ID: 32362	RunNo: 43629						
Prep Date:	6/19/2017		Analysis Date: 6/20/2017	SeqNo: 1374618	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID	1706908-001AMS		SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	SC-1		Batch ID: 32362	RunNo: 43631						
Prep Date:	6/19/2017		Analysis Date: 6/20/2017	SeqNo: 1375153	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.6	47.76	0	110	55.8	122			
Surr: DNOP	4.6		4.776		96.1	70	130			

Sample ID	1706908-001AMSD		SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	SC-1		Batch ID: 32362	RunNo: 43631						
Prep Date:	6/19/2017		Analysis Date: 6/20/2017	SeqNo: 1375154	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.3	46.30	0	112	55.8	122	1.37	20	
Surr: DNOP	4.5		4.630		96.5	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1706908
 21-Jun-17

Client: Animas Environmental Services
 Project: DJ Resources AXI H 9 Pipeline

Sample ID	MB-32325	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374087	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.9	54	150			

Sample ID	LCS-32325	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374088	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	76.4	125			
Surr: BFB	1100		1000		108	54	150			

Sample ID	1706908-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374097	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.47	0	92.2	77.8	128			
Surr: BFB	1000		939.0		106	54	150			

Sample ID	1706908-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374098	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.6	22.98	0	80.8	77.8	128	15.2	20	
Surr: BFB	1000		919.1		109	54	150	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1706908
 21-Jun-17

Client: Animas Environmental Services
 Project: DJ Resources AXI H 9 Pipeline

Sample ID	MB-32325	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374110	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		123	66.6	132			

Sample ID	LCS-32325	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374111	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		126	66.6	132			

Sample ID	1706908-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374119	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9542	0	85.7	61.5	138			
Toluene	0.82	0.048	0.9542	0	86.1	71.4	127			
Ethylbenzene	0.83	0.048	0.9542	0	86.9	70.9	132			
Xylenes, Total	2.5	0.095	2.863	0	88.3	76.2	123			
Surr: 4-Bromofluorobenzene	1.2		0.9542		121	66.6	132			

Sample ID	1706908-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	32325	RunNo:	43604					
Prep Date:	6/16/2017	Analysis Date:	6/19/2017	SeqNo:	1374120	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.023	0.9381	0	94.2	61.5	138	7.73	20	
Toluene	0.94	0.047	0.9381	0	99.7	71.4	127	13.0	20	
Ethylbenzene	0.96	0.047	0.9381	0	103	70.9	132	14.9	20	
Xylenes, Total	2.9	0.094	2.814	0	104	76.2	123	14.6	20	
Surr: 4-Bromofluorobenzene	1.1		0.9381		122	66.6	132	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Animas Environmental**

Work Order Number: **1706908**

ReptNo: **1**

Received By: **Sophia Campuzano** 6/15/2017 9:00:00 AM

Sophia Campuzano

Completed By: **Ashley Gallegos** 6/15/2017 3:12:55 PM

Ashley Gallegos

Reviewed By: **SJL 06/15/17**

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? **Courier**

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 20, 2017

Elizabeth McNally
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: DJ Resources AXI H 9 Pipeline

OrderNo.: 1706922

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706922

Date Reported: 6/20/2017

CLIENT: Animas Environmental Services

Client Sample ID: Water Sample

Project: DJ Resources AXI H 9 Pipeline

Collection Date: 6/15/2017 9:40:00 AM

Lab ID: 1706922-001

Matrix: AQUEOUS

Received Date: 6/16/2017 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/19/2017 5:58:36 PM	32334
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/19/2017 5:58:36 PM	32334
Surr: DNOP	113	72.4-157		%Rec	1	6/19/2017 5:58:36 PM	32334
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/19/2017 11:47:41 AM	G43605
Surr: BFB	118	52.3-138		%Rec	1	6/19/2017 11:47:41 AM	G43605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2017 11:47:41 AM	B43605
Toluene	ND	1.0		µg/L	1	6/19/2017 11:47:41 AM	B43605
Ethylbenzene	ND	1.0		µg/L	1	6/19/2017 11:47:41 AM	B43605
Xylenes, Total	ND	2.0		µg/L	1	6/19/2017 11:47:41 AM	B43605
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	6/19/2017 11:47:41 AM	B43605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL	Practical Quantitative Limit	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706922
20-Jun-17

Client: Animas Environmental Services
Project: DJ Resources AXI H 9 Pipeline

Sample ID	LCS-32333		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range				
Client ID:	LCSW		Batch ID:	32333		RunNo:	43596				
Prep Date:	6/16/2017		Analysis Date:	6/19/2017		SeqNo:	1373452		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	0.56		0.5000		111	72.4		157			

Sample ID	MB-32333		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range				
Client ID:	PBW		Batch ID:	32333		RunNo:	43596				
Prep Date:	6/16/2017		Analysis Date:	6/19/2017		SeqNo:	1373453		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	1.1		1.000		112	72.4		157			

Sample ID	LCS-32334		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range				
Client ID:	LCSW		Batch ID:	32334		RunNo:	43597				
Prep Date:	6/16/2017		Analysis Date:	6/19/2017		SeqNo:	1374170		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	97.9	82.8		146			
Surr: DNOP	0.47		0.5000		93.2	72.4		157			

Sample ID	MB-32334		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range				
Client ID:	PBW		Batch ID:	32334		RunNo:	43597				
Prep Date:	6/16/2017		Analysis Date:	6/19/2017		SeqNo:	1374171		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	1.0									
Motor Oil Range Organics (MRO)	ND	5.0									
Surr: DNOP	0.85		1.000		84.8	72.4		157			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706922

20-Jun-17

Client: Animas Environmental Services

Project: DJ Resources AXI H 9 Pipeline

Sample ID RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBW	Batch ID: G43605	RunNo: 43605								
Prep Date:	Analysis Date: 6/19/2017	SeqNo: 1374131	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	24		20.00		118	52.3	138			

Sample ID 2.5UG GRO LCSB	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSW	Batch ID: G43605	RunNo: 43605								
Prep Date:	Analysis Date: 6/19/2017	SeqNo: 1374132	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.42	0.050	0.5000	0	84.4	79.1	123			
Surr: BFB	26		20.00		128	52.3	138			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706922

20-Jun-17

Client: Animas Environmental Services

Project: DJ Resources AXI H 9 Pipeline

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	B43605	RunNo:	43605					
Prep Date:		Analysis Date:	6/19/2017	SeqNo:	1374199	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	23		20.00		117	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	B43605	RunNo:	43605					
Prep Date:		Analysis Date:	6/19/2017	SeqNo:	1374201	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.2	71.7	126			
Toluene	18	1.0	20.00	0	90.0	73.3	119			
Ethylbenzene	18	1.0	20.00	0	88.6	80	120			
Xylenes, Total	53	2.0	60.00	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		120	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Animas Environmental**

Work Order Number: **1708922**

RcptNo: **1**

Received By: **Anne Thorne**

6/18/2017 7:55:00 AM

Anne Thorne

Completed By: **Ashley Gallegos**

6/18/2017 9:55:02 AM

Ashley Gallegos

Reviewed By: *[Signature]*

Cell/Gallegos

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: _____
(Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
(If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

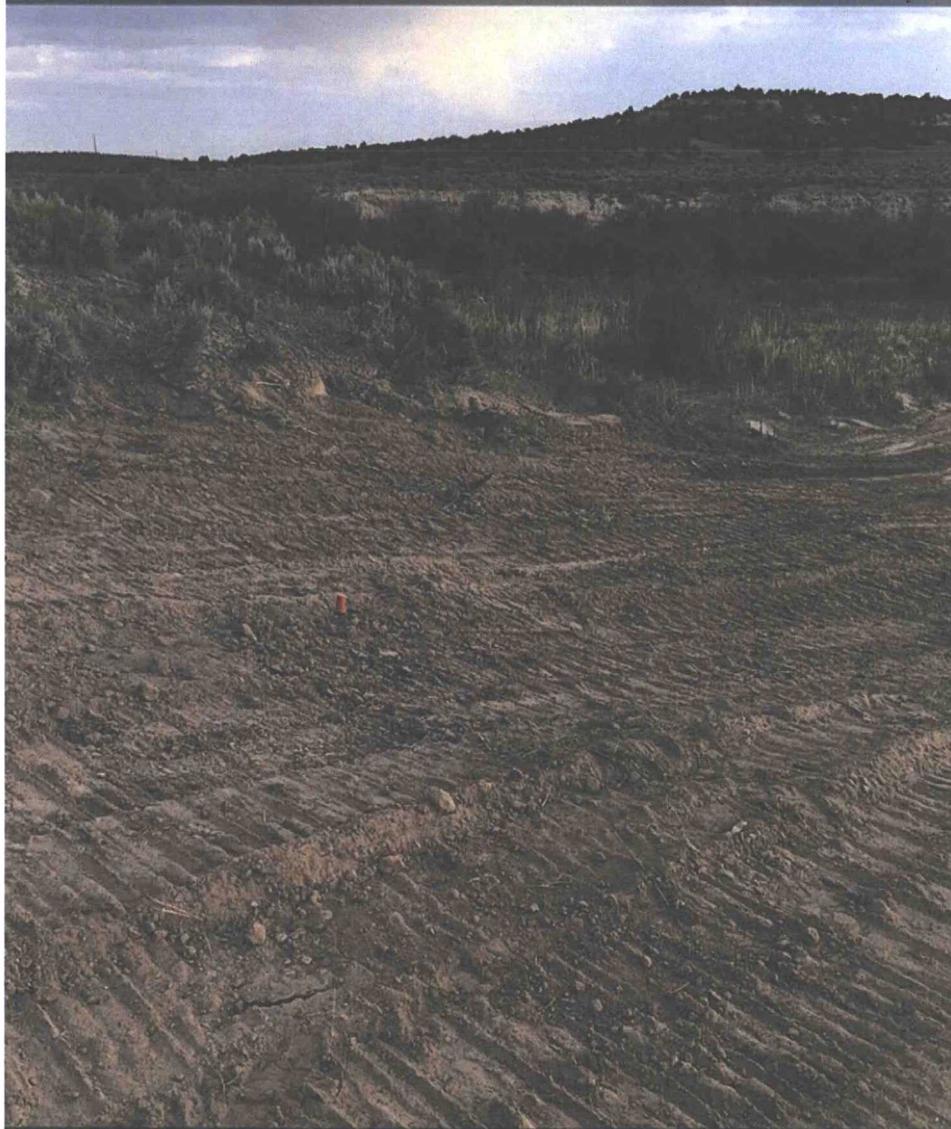
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			



DIRECTION
184 deg(T)

36.26564°N
107.38708°W

ACCURACY 5 m
DATUM WGS84



2017-06-07
19:47:16-06:00

