

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

NMOCD
MAR 23 2018
DISTRICT III
Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141
Revised April 3, 2017

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: DJR Operating, LLC	Contact: Amy Archuleta
Address: PO BOX 156 Bloomfield, NM 87413	Telephone No.: 505-632-3476 x201
Facility Name: Turtle Mountain 35-1	Facility Type: Well
Surface Owner: Federal	Mineral Owner: Federal
API No.: 30-045-33935	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SE/NE	35	24N	08W	1980	North	330	East	San Juan

Latitude 36.2726131049 Longitude -107.643337 NAD83

NATURE OF RELEASE

Type of Release Motor oil from engine on pumping unit.	Volume of Release Unknown	Volume Recovered 8 yards of contaminated soil.
Source of Release Engine on pumping unit.	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Amy Archuleta	Date and Hour 12-11-17	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

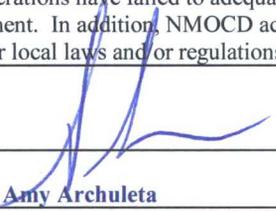
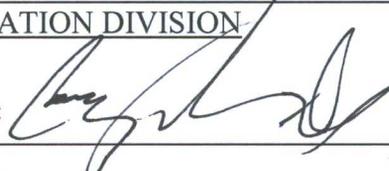
Describe Cause of Problem and Remedial Action Taken.*

On 11-22-17 we received a Notice of Written Order from the BLM (18CAWO07). It required DJR to "remove oil off compressor skid and remove contaminated soil and replace with fresh soil or gravel around skid." - The surface didn't look reportable, but upon excavation we felt it was necessary to report the contamination under the Pumping Unit. The total volume in unknown. This is located near a wash and will follow the >19 ranking criteria. The gearbox and engine both were leaking. The pumping unit has been removed from location.

Describe Area Affected and Cleanup Action Taken.*

This contamination is located under the pumping unit. A total of 5 yards have been excavated and taken to IEI's land farm. The pump jack has been removed and the area is ready to be tested. This location was backfilled with soil brought from Aztec, NM. I spoke to Heather Perry from the BLM about backfill. This location was re-excavated and tested again on 3-13-18. AES conducted the samples and Cory Smith witnessed. We have completed the closure as of 3-22-18. The backfill soil came from Envirotech's landfarm.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Amy Archuleta	Approved by Environmental Specialist: 	
Title: Regulatory	Approval Date: 5/4/18	Expiration Date:
E-mail Address: aarchuleta@djrlc.com	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: 03-23-18 Phone: 505-632-3476 x201		

* Attach Additional Sheets If Necessary

#NCS 1801654367

24



March 13, 2018

Amy Archuleta
Regulatory Supervisor
DJR Operating, LLC
PO Box 156
Bloomfield, New Mexico 87413

Sent via electronic mail to:
aarchuleta@djrlc.com

**RE: Excavation Clearance Report
Turtle Mountain 35 #1 Release
API #3004533935
San Juan County, New Mexico**

Dear Ms. Archuleta:

On March 5, 2018, Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated area associated with petroleum-contaminated soils at the DJR Operating (DJR) Turtle Mountain 35 #1 release location. The release consisted of historic contamination discovered during removal of the pump-jack at the location. The initial excavation and sampling event was conducted by DJR personnel on December 19, 2017. The laboratory analytical results confirmed that concentrations of chlorides, benzene, toluene, ethyl-benzene and total xylenes (BTEX) were below the New Mexico Oil Conservation Division (NMOCD) action levels. However, concentrations of total petroleum hydrocarbons (TPH) exceeded NMOCD action levels for the subject location.

AES returned to the location for the final excavation and collection of confirmation soil samples. The excavation was completed by DJR contractors while AES was at the location on March 5, 2018.

1.0 Site Information

1.1 Location

Legal Description – SE¼ NE¼, Section 35, T24N, R8W, San Juan County, New Mexico

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

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

Release Latitude/Longitude – N36.27259 and W107.64347, respectively

Land Jurisdiction – Navajo Nation Allotment

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2018

1.2 NMOCD Ranking

The DJR Turtle Mountain 35 #1 is located within Navajo Nation Allotment lands. Navajo Nation adheres to action levels for releases and spills in New Mexico as established by the NMOCD.

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** The location is 10 to 20 feet higher than Blanco Wash, located 330 feet north. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be less than 50 feet below ground surface. (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Blanco Wash is located approximately 330 feet north of the location. (10 points)

1.3 Excavation Clearance

On March 5, 2018, DJR contractors completed an excavation of historic contamination discovered during removal of the pump-jack at the location, and AES personnel collected a total of five confirmation soil samples for field screening and laboratory analysis from the walls and bases of the excavation area. The final excavation measured approximately 12 feet by 28 feet by 2 to 3 feet deep. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

On March 5, 2018, five composite soil samples (SC-1 through SC-5) were collected from the walls and bases of the excavation. Per NMOCD representative, Cory Smith, SC-5 (base) was submitted for laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for volatile organic compound (VOC) vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil sample SC-5 was also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES' *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.2 Laboratory Analyses

The samples collected for laboratory analysis 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, Green Analytical Laboratories in Durango, Colorado, and Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The samples were laboratory analyzed for:

- BTEX per USEPA Method 8021;
- TPH as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015 M/D; and
- Chlorides per USEPA Method 300.1

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figure 3. The AES Field Sampling Report and laboratory analytical reports are attached.

Table 1. Soil Field VOCs and TPH Results
Turtle Mountain 35 #1 Excavation Clearance
March 2018

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)
<i>NMOCD Action Level*</i>			100	100
SC-1	3/5/18	3	0.0	NA
SC-2	3/5/18	2	0.0	NA
SC-3	3/5/18	2 to 3	0.0	NA
SC-4	3/5/18	2 to 3	0.0	NA
SC-5	3/5/18	2 to 3	0.0	26.5

*Action level determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)*
NA = Not Analyzed

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, Chlorides, and TPH
Excavation Area Sample Locations and Results, December 2017 and March 2018

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)	Chlorides (mg/kg)
<i>NMOCD Action Level*</i>			10	50		100		250
Turtle Mtn 35-1	12/19/17	1.5 to 2	<0.050	<0.300	<10.0	213	235	32.8
SC-5	3/5/18	2 to 3	NA	NA	<4.6	<9.3	<47	NA

*Action level determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)*
NA = Not Analyzed

3.0 Conclusions and Recommendations

On March 5, 2018, final clearance of the excavation area was completed. Field sampling results and laboratory analytical results from the excavation extents showed field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for in SC-5.

Based on the final field sampling and laboratory analytical results of the excavation from December 19, 2017, and March 5, 2018, of petroleum contaminated soils at the Turtle

Mountain 35 #1, concentrations of contaminants of concern were below the applicable NMOCD action levels for the final base and sidewalls of the excavation pit. No further work is recommended.

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

Sincerely,



David J. Reese
Environmental Scientist

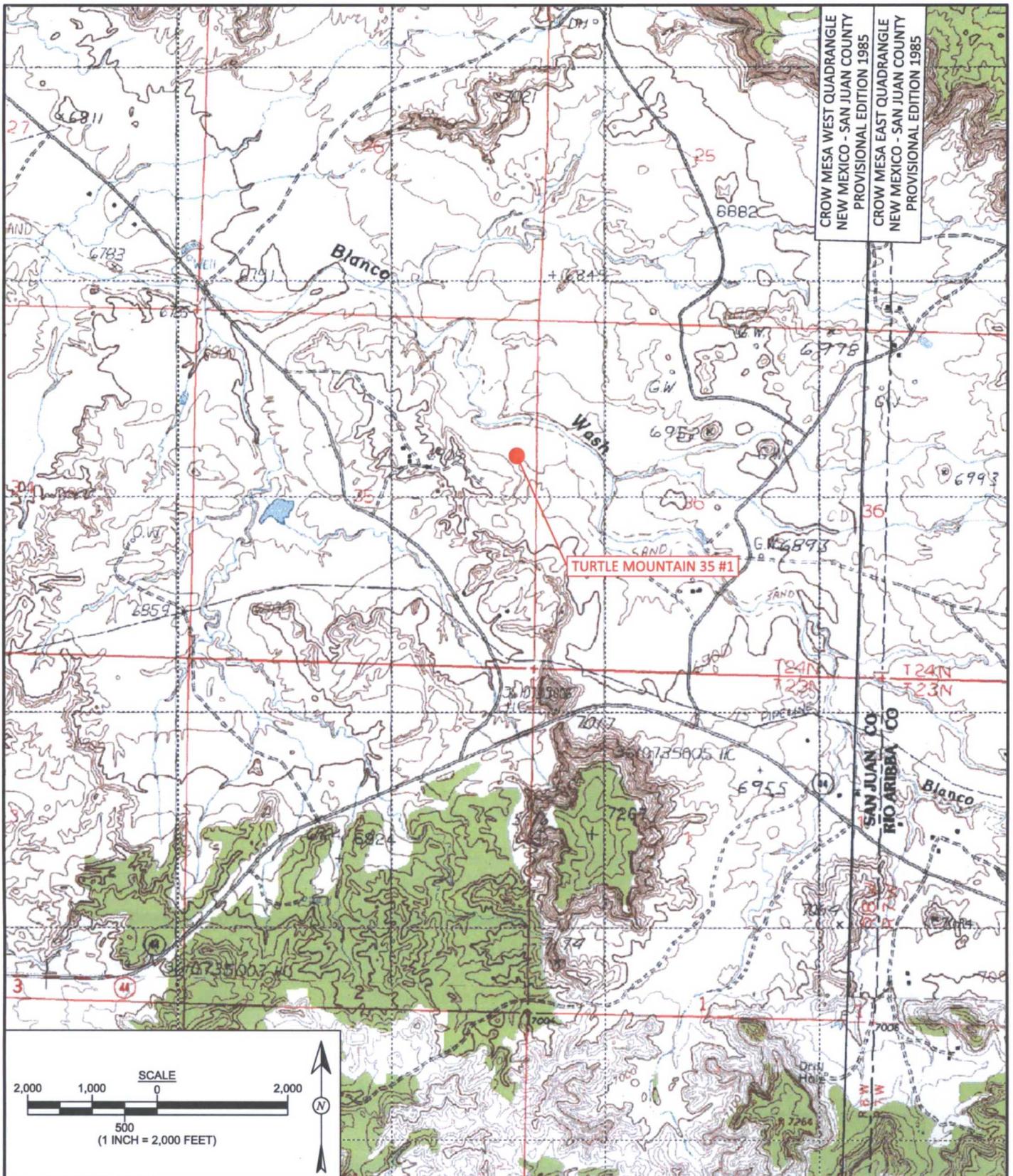


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2018
- Figure 3. Excavation Area Sample Locations and Results, March 2018
- AES Field Sampling Report 030518
- Green Analytical Laboratories Twtle Mtn 35-1
- Hall Analytical Report 1803219

\\SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects
Dropbox\2018 Client Projects\DJ Resources\Turtle Mountain 35-1\Turtle Mountain 35 #1 Excavation
Clearance Report 031518 EM.docx

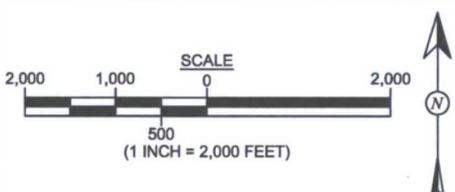


CROW MESA WEST QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 PROVISIONAL EDITION 1985

CROW MESA EAST QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 PROVISIONAL EDITION 1985

TURTLE MOUNTAIN 35 #1

SAN JUAN CO
 RIO ARIBEA CO



 <p>animas environmental services Farmington, NM • Durango, CO animasenvironmental.com</p>	<p>DRAWN BY: C. Lameman</p>	<p>DATE DRAWN: March 9, 2018</p>	<p>FIGURE 1</p> <p>TOPOGRAPHIC SITE LOCATION MAP DJR OPERATING TURTLE MOUNTAIN 35 #1 API #30-045-33935 SE1/4 NE1/4, SECTION 35, T24N, R8W SAN JUAN COUNTY, NEW MEXICO N36.27258, W107.64338</p>
	<p>REVISIONS BY: C. Lameman</p>	<p>DATE REVISED: March 9, 2018</p>	
	<p>CHECKED BY: T. Knight</p>	<p>DATE CHECKED: March 9, 2018</p>	
	<p>APPROVED BY: E. McNally</p>	<p>DATE APPROVED: March 9, 2018</p>	

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



AERIAL SOURCE: © 2018 GOOGLE EARTH PRO, AERIAL DATE: OCTOBER 13, 2017.



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

DRAWN BY: C. Lameman	DATE DRAWN: March 9, 2018
REVISIONS BY: C. Lameman	DATE REVISED: March 9, 2018
CHECKED BY: T. Knight	DATE CHECKED: March 9, 2018
APPROVED BY: E. McNally	DATE APPROVED: March 9, 2018

FIGURE 2
AERIAL SITE MAP
MARCH 2018
 DJR OPERATING
 TURTLE MOUNTAIN 35 #1
 API #30-045-33935
 SE1/4 NE1/4, SECTION 35, T24N, R8W
 SAN JUAN COUNTY, NEW MEXICO
 N36.27258, W107.64338

AES Field Sampling Report

Animas Environmental Services, LLC



Client: DJR Operating

Project Location: Turtle Mountain 35 #1

Date: 3/5/2018

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	3/5/2018	9:43	West Wall	0.0	NA	NA	NA	NA	CL
SC-2	3/5/2018	9:37	East Wall	0.0	NA	NA	NA	NA	CL
SC-3	3/5/2018	9:34	North Wall	0.0	NA	NA	NA	NA	CL
SC-4	3/5/2018	9:40	South Wall	0.0	NA	NA	NA	NA	CL
SC-5	3/5/2018	9:46	Base	0.0	26.5	11:21	0.031	1	CL

DF Dilution Factor
 NA Not Analyzed
 PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

05 January 2018

Amy Archuleta
DJR Operating
#20 CR 5060
Bloomfield, NM 87413
RE: BTEX,TPH, CI

Enclosed are the results of analyses for samples received by the laboratory on 12/19/17 12:00.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Twtle Mnt 35-1	1712183-01	Solid	12/19/17 00:00	12/19/17 12:00

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

Twtle Mnt 35-1

1712183-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.6			%	1	12/27/17	EPA160.3/1684	H2	LLG
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Soluble (DI Water Extraction)

Chloride	32.8	10.9	1.56	mg/kg dry	10	01/05/18	EPA300.0		JDA
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Subcontracted – Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	12/28/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	12/28/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	12/28/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	12/28/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/28/17	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			95.7 %	72-148		12/28/17	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	3.53	mg/kg	1	12/28/17	8015B		MS
DRO >C10-C28*	213	10.0	2.04	mg/kg	1	12/28/17	8015B		MS
EXT DRO >C28-C36	235	10.0	2.04	mg/kg	1	12/28/17	8015B		MS
Surrogate: 1-Chlorooctane			80.6 %	28.3-164		12/28/17	8015B		MS
Surrogate: 1-Chlorooctadecane			78.0 %	34.7-157		12/28/17	8015B		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Twtle Mnt 35-1 Project Manager: Amy Archuleta	Reported: 01/05/18 12:39
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B712216 - General Prep - Wet Chem

Duplicate (B712216-DUP1)	Source: 1712183-01		Prepared & Analyzed: 12/27/17							
% Dry Solids	91.5		%		91.6			0.133	20	

Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B801022 - General Prep - Wet Chem

Blank (B801022-BLK1)	Prepared: 01/04/18 Analyzed: 01/05/18									
Chloride	ND	10.0	mg/kg wet							
LCS (B801022-BS1)	Prepared: 01/04/18 Analyzed: 01/05/18									
Chloride	241	10.0	mg/kg wet	250		96.5	85-115			
LCS Dup (B801022-BSD1)	Prepared: 01/04/18 Analyzed: 01/05/18									
Chloride	242	10.0	mg/kg wet	250		96.8	85-115	0.331	20	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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DJR Operating
 #20 CR 5060
 Bloomfield NM, 87413

Project: BTEX,TPH, CI
 Project Name / Number: Twtle Mnt 35-1
 Project Manager: Amy Archuleta

Reported:
 01/05/18 12:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7122720 - Volatiles

Blank (7122720-BLK1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0965		mg/kg	0.100		96.5	72-148			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (7122720-BS1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0923		mg/kg	0.100		92.3	72-148			
Benzene	1.80	0.050	mg/kg	2.00		89.9	79.5-124			
Ethylbenzene	1.70	0.050	mg/kg	2.00		85.0	77.7-125			
Toluene	1.76	0.050	mg/kg	2.00		87.8	75.5-127			
Total Xylenes	5.18	0.150	mg/kg	6.00		86.3	70.9-124			

LCS Dup (7122720-BSD1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0938		mg/kg	0.100		93.8	72-148			
Benzene	1.78	0.050	mg/kg	2.00		89.2	79.5-124	0.786	6.5	
Ethylbenzene	1.71	0.050	mg/kg	2.00		85.7	77.7-125	0.775	7.83	
Toluene	1.75	0.050	mg/kg	2.00		87.4	75.5-127	0.390	7.02	
Total Xylenes	5.24	0.150	mg/kg	6.00		87.3	70.9-124	1.11	7.78	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Twtle Mnt 35-1 Project Manager: Amy Archuleta	Reported: 01/05/18 12:39
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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7122717 - General Prep - Organics

Blank (7122717-BLK1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.4	34.7-157			
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	28.3-164			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (7122717-BS1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	44.4		mg/kg	50.0		88.9	34.7-157			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	28.3-164			
DRO >C10-C28	188	10.0	mg/kg	200		94.1	81.4-124			
GRO C6-C10	206	10.0	mg/kg	200		103	76.6-119			
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	79.4-121			

LCS Dup (7122717-BSD1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	34.7-157			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
DRO >C10-C28	205	10.0	mg/kg	200		103	81.4-124	8.62	9.83	
GRO C6-C10	223	10.0	mg/kg	200		111	76.6-119	7.68	7.94	
Total TPH C6-C28	428	10.0	mg/kg	400		107	79.4-121	8.13	8.57	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, Cl
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

Notes and Definitions

- H2 Sample analysis performed past hold time specified by the method.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name: DSE Operating		Bill to (if different):		ANALYSIS REQUEST																																																																																																									
Project Manager: Amy Archuleta		P.O. #:		<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																																																																									
Address: PO box 156		Company:																																																																																																											
City: Bloomfield State: NM Zip: 87413		Attn:																																																																																																											
Phone #: 505-320-6917 Email: aarchuleta@djrllc.com		Address:																																																																																																											
Additional Report To:		City:																																																																																																											
Project Name: Turtle Mt 35-1		State: Zip:																																																																																																											
Project Number:		Phone #:																																																																																																											
Sampler Name (Print):		Fax or Email:																																																																																																											
FOR LAB USE ONLY		Collected		Matrix (check one)		# of containers																																																																																																							
Lab I.D.	Sample Name or Location	Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER:	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:	Other:																																																																																													
1712-18301	Turtle Mt 35-1	12/19/17																																																																																																											

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 90 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 12/19/17 Time: 11:55	Received By: Christina Clark	ADDITIONAL REMARKS: Report to State? (Circle) Yes No
Relinquished By: Christina Clark	Date: 12/19/17 Time: 16:55	Received By: Kangaroo Express	
Relinquished By: Kangaroo	Date: 12-20-17 Time: 0847	Received By:	
Delivered By: (Circle One)	Temperature at receipt: 9.4c	CHECKED BY:	0.1/0.3'c #1 on 12/19/17
Sampler - UPS - FedEx - Kangaroo - Other:			

† GAL cannot always accept verbal changes. Please fax or email written change requests.
 * Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



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

March 08, 2018

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

RE: Turtle Mountain 35 #1

OrderNo.: 1803219

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2018 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803219**

Date Reported: **3/8/2018**

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Turtle Mountain 35 #1

Collection Date: 3/5/2018 11:40:00 AM

Lab ID: 1803219-001

Matrix: SOIL

Received Date: 3/6/2018 6:55:00 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	3/7/2018 10:57:17 AM	36866
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2018 10:57:17 AM	36866
Surr: DNOP	89.8	70-130		%Rec	1	3/7/2018 10:57:17 AM	36866
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/7/2018 2:01:00 PM	36859
Surr: BFB	90.6	15-316		%Rec	1	3/7/2018 2:01:00 PM	36859

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#: 1803219
 08-Mar-18

Client: Animas Environmental Services
Project: Turtle Mountain 35 #1

Sample ID	LCS-36866		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	36866		RunNo:	49602				
Prep Date:	3/6/2018		Analysis Date:	3/7/2018		SeqNo:	1603693		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130				
Surr: DNOP	3.8		5.000		75.4	70	130				

Sample ID	MB-36866		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	36866		RunNo:	49602				
Prep Date:	3/6/2018		Analysis Date:	3/7/2018		SeqNo:	1603694		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	8.2		10.00		82.4	70	130				

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#: 1803219

08-Mar-18

Client: Animas Environmental Services
Project: Turtle Mountain 35 #1

Sample ID	MB-36859	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	36859	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604248	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	920		1000		91.9	15	316			

Sample ID	LCS-36859	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	36859	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604249	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Sample ID	MB-36868	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	36868	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604266	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.6	15	316			

Sample ID	LCS-36868	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	36868	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604267	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	15	316			

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: 1803219

RcptNo: 1

Received By: Anne Thorne 3/8/2018 8:55:00 AM

Completed By: Isalah Ortiz 3/8/2018 8:00:15 AM

Reviewed By: *SRE 03/06/18*

Ann Thorne
IO

labeled by DDS

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH:	_____
(<2 or >12 unless noted)	
Adjusted?	_____
Checked by:	_____

Special Handling (if applicable)

15. 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:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

