

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 April 3, 2017

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 Co LLC	Contact Amy Archuleta	
Address PO BOX 156 Bloomfield, NM 87412	Telephone No. 505-632-3476 x 201	
Facility Name Martin Whittaker 57	Facility Type Oil	
Surface Owner Jicarilla Apache Nation	Mineral Owner Jicarilla Apache Nation	API No. 30-039-23511

LOCATION OF RELEASE

Unit Letter C	Section 5	Township 23N	Range 05W	Feet from the 970'	North/South Line North	Feet from the 1850'	East/West Line West	County Rio Arriba
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Latitude **36.259389173** Longitude **-107.386866858** NAD83

NATURE OF RELEASE

Type of Release Oil	Volume of Release 12 bbls	Volume Recovered 5 bbl back in tank / 210 yds of soil/oil mixture
Source of Release Production Tank	Date and Hour of Occurrence 10-15-17	Date and Hour of Discovery 10-16-17 12:00 PM.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith (OCD). JAN- Jason Sandoval, Hobson Sandoval, Guillermo Deherra and Whitney Thomas (BLM) Notified by phone and email.	
By Whom? Amy Archuleta and Richard Graves	Date and Hour 10-15-17 at 1PM phone 3:30PM Email	
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.* **N/A**

Describe Cause of Problem and Remedial Action Taken.*

The Lease Operator allowed the tank to run over the side of the tank. When it was discovered a crew was sent to the location immediately to contain the release. We excavated approximately 200 yards of soil and used a hydrovac truck to remove the oil around sensitive areas. We were able to recover approx. 5 bbls of the oil and put it back into the tank.

Describe Area Affected and Cleanup Action Taken.*


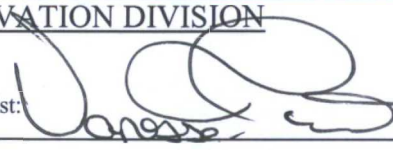
Most of the oil was contained in the berm. Some of the oil migrated onto location, a backhoe was used to dig out the contaminated soil and the stock piled soil is being removed to the IEL's land farm. We are working with the Jicarilla on their method for the cleanup. The soil samples passed and are attached. We will backfill today 11-7-17.

OIL CONS. DIV DIST. 3

** Please see the attached documentation that was sent to the Jicarilla Apache Nation.

NOV 08 2017

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 Supervisor	Approval Date: 11/8/2017	Expiration Date:
E-mail Address: aarchuleta@djrlc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11-7-17	Phone: 505-632-3476 x201	

* Attach Additional Sheets If Necessary

NVF1731238911

16



TABLE 1
SOIL ANALYTICAL RESULTS
MARTIN WHITAKER #57
DJR OPERATING, LLC

ANALYTE	SS01	SS02	SS03	UNITS
Chloride	<10.4	<10.3	<10.5	mg/kg
Benzene	<0.050	<0.050	<0.050	mg/kg
Toluene	<0.050	<0.050	<0.050	mg/kg
Ethylbenzene	<0.050	<0.050	<0.050	mg/kg
Total Xylenes	<0.150	<0.150	<0.150	mg/kg
Total BTEX	<0.300	<0.300	<0.300	mg/kg
TPH (GRO)	<10.0	<10.0	<10.0	mg/kg
TPH (DRO)	96.9	70.6	21.8	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	mg/kg

Notes:

Samples collected 11/2/17

All samples are 5-point composite samples

BTEX- Benzene, Toluene, Ethylbenzene,
Total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

Martin Whittaker 57 Release

30-039-23511

Jicarilla Contract 38

970' FNL X 1850' FWL

Rio Arriba County, NM

36.259381273 -107.386866858

A release of oil occurred on the Martin Whittaker 57. It was found on Monday, October 16, 2017 at approximately 12:00 PM. Jicarilla Oil and Gas, Jicarilla EPO, NMOCD, and BLM where notified within 3 hours of discovery.



10-19-17

Wellhead has been dug out and a berm installed to detour water flow.

Berm around water tank has been built to correct SPCC specs.

Steamed tank and clean up standing oil

Pile of contaminated dirt has roughly 110 yards removed as of today. The soil is contained with an earthen berm.



Future:

Remove contaminated soil from tank area and release area on pad

Move tank

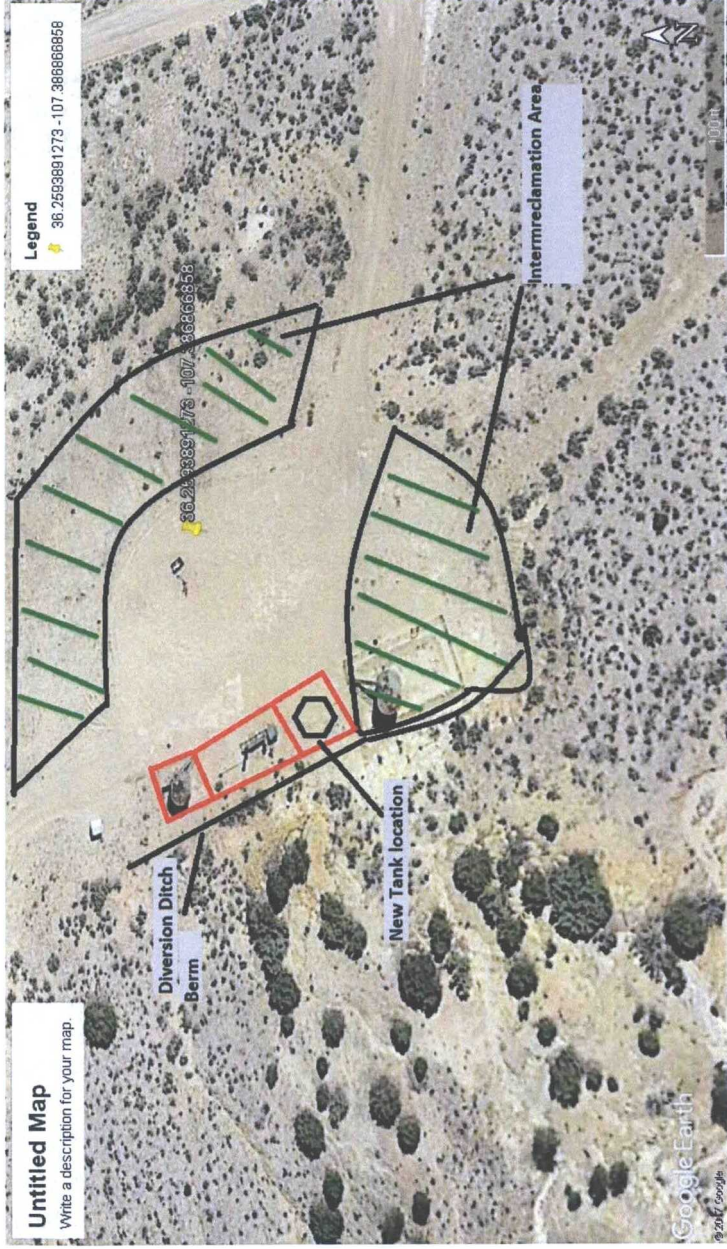
Dig approved diversion ditch along west side of location to detour water from pad and remediation area.

Test soil

Set tank in new location with Vertical and Horizontal containment. Install a metal wall berm and liner. Hydrovac old stains around location.

Meet with Jicarilla Agencies to discuss interim-remediation and diversion ditches for remediation purposes.




J-7 road issue- This road has been bladed to get trucks in and out. Will set up a meeting with proper Jicarilla Agencies to discuss a permanent plan for current issues.





Samples collected 11/2/17. All samples are 5-point composite samples.

Legend

-  Gas Well
-  Soil Sample Location
-  Excavation Area

Location: Sec 5 T23N R5W, Rio Arriba Cty, NM

Cottonwood
CONSULTING 

Mapping by: H. Ertl, 11/6/17
Coordinate System:
NAD 1983 UTM Zone 13 N

SOIL SAMPLE LOCATION MAP
MARTIN WHITTAKER #57
DJR OPERATING, LLC



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

06 November 2017

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 11/02/17 13:17. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any 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.



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DJR Operating

#20 CR 5060

Bloomfield NM, 87413

Project: BTEX,TPH, Cl

Project Name / Number: Martin Whitaker 57

Project Manager: Amy Archuleta

Reported:

11/06/17 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1711026-01	Solid	11/02/17 10:05	11/02/17 13:17
SS02	1711026-02	Solid	11/02/17 10:15	11/02/17 13:17
SS03	1711026-03	Solid	11/02/17 10:25	11/02/17 13:17

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Debbie Zufelt, Reports Manager

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DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Martin Whitaker 57
Project Manager: Amy Archuleta

Reported:
11/06/17 15:46

SS01

1711026-01 (Solid)

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

% Dry Solids	95.7			%	1	11/03/17	EPA160.3/1684		JDA
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Soluble (DI Water Extraction)

Chloride	<10.4	10.4	1.50	mg/kg dry	10	11/06/17	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	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	105 %	72-148			11/06/17	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	96.9	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS

Surrogate: 1-Chlorooctane	92.9 %	28.3-164			11/06/17	8015B		MS
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Surrogate: 1-Chlorooctadecane	100 %	34.7-157			11/06/17	8015B		MS
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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: Martin Whitaker 57
Project Manager: Amy Archuleta

Reported:
11/06/17 15:46

SS02

1711026-02 (Solid)

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

% Dry Solids	96.9			%	1	11/03/17	EPA160.3/1684		JDA
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Soluble (DI Water Extraction)

Chloride	<10.3	10.3	1.48	mg/kg dry	10	11/06/17	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	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)		104 %	72-148			11/06/17	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	70.6	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS

Surrogate: 1-Chlorooctane		94.4 %	28.3-164			11/06/17	8015B		MS
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Surrogate: 1-Chlorooctadecane		104 %	34.7-157			11/06/17	8015B		MS
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DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Martin Whitaker 57
Project Manager: Amy Archuleta

Reported:
11/06/17 15:46

SS03

1711026-03 (Solid)

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

% Dry Solids	95.6			%	1	11/03/17	EPA160.3/1684		JDA
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Soluble (DI Water Extraction)

Chloride	<10.5	10.5	1.50	mg/kg dry	10	11/06/17	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	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	104 %	72-148			11/06/17	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	21.8	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS

Surrogate: 1-Chlorooctane	89.4 %	28.3-164			11/06/17	8015B		MS
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Surrogate: 1-Chlorooctadecane	103 %	34.7-157			11/06/17	8015B		MS
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Debbie Zufelt, Reports Manager

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DJR Operating

#20 CR 5060

Bloomfield NM, 87413

Project: BTEX,TPH, CI

Project Name / Number: Martin Whitaker 57

Project Manager: Amy Archuleta

Reported:

11/06/17 15:46

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 B711040 - General Prep - Wet Chem

Duplicate (B711040-DUP1)

Source: 1711026-01

Prepared & Analyzed: 11/03/17

% Dry Solids	95.7		%		95.7			0.00	20	
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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 B711022 - General Prep - Wet Chem

Blank (B711022-BLK1)

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	ND	1.00	mg/kg wet							
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LCS (B711022-BS1)

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	242	10.0	mg/kg wet	250		96.8	85-115			
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LCS Dup (B711022-BSD1)

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	240	10.0	mg/kg wet	250		96.0	85-115	0.797	20	
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DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Martin Whitaker 57
Project Manager: Amy Archuleta

Reported:
11/06/17 15:46

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
Batch 7110306 - Volatiles										
Blank (7110306-BLK1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0250		103	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 (7110306-BS1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 4-Bromofluorobenzene (PID)	0.0254		mg/kg	0.0250		102	72-148			
Benzene	1.70	0.050	mg/kg	2.00		85.1	79.5-124			
Ethylbenzene	1.80	0.050	mg/kg	2.00		89.8	77.7-125			
Toluene	1.76	0.050	mg/kg	2.00		88.2	75.5-127			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	70.9-124			
LCS Dup (7110306-BSD1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 4-Bromofluorobenzene (PID)	0.0258		mg/kg	0.0250		103	72-148			
Benzene	1.71	0.050	mg/kg	2.00		85.5	79.5-124	0.463	6.5	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	77.7-125	1.32	7.83	
Toluene	1.78	0.050	mg/kg	2.00		89.2	75.5-127	1.10	7.02	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.9	70.9-124	1.19	7.78	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Martin Whitaker 57
Project Manager: Amy Archuleta

Reported:
11/06/17 15:46

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7110312 - General Prep - Organics										
Blank (7110312-BLK1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	34.7-157			
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	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 (7110312-BS1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	34.7-157			
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	28.3-164			
DRO >C10-C28	203	10.0	mg/kg	200		101	81.4-124			
GRO C6-C10	205	10.0	mg/kg	200		102	76.6-119			
Total TPH C6-C28	407	10.0	mg/kg	400		102	79.4-121			
LCS Dup (7110312-BSD1)										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	34.7-157			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.3	28.3-164			
DRO >C10-C28	200	10.0	mg/kg	200		99.8	81.4-124	1.56	9.83	
GRO C6-C10	201	10.0	mg/kg	200		101	76.6-119	1.75	7.94	
Total TPH C6-C28	401	10.0	mg/kg	400		100	79.4-121	1.66	8.57	

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: Martin Whitaker 57

Project Manager: Amy Archuleta

Reported:

11/06/17 15:46

Notes and Definitions

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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