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Remediation and Closure Report

Burton Flat Deep Unit #043Q
API# 30-015-33626
Talon Project # 700794.293.01 *2RP-5497

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, New Mexico 88210

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

November 4, 2019

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Burton Flat Deep Unit#043Q *2RP-5497
API# 30-015-33626
Eddy County, NM

Dear Mr. Bratcher,

Devon Energy Production Company (Devon Energy) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our remediation and closure request is contained herein.

Site Information

Burton Flat Deep #43Q is located approximately five (5) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter P, Section 3, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.5047226 North and -104.1709137 West. A Site Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito loamy fine sand with 0-3 percent slopes. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the reported average depth to groundwater is 33-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a high potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater 33 Feet/BGS

- Yes No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes No Within 200 feet of any lakebed, sinkhole or playa lake
- Yes No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes No Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- Yes No Within 1000 feet of any fresh water well or spring
- Yes No Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes No Within 300 feet of a wetland
- Yes No Within the area overlying a subsurface mine
- Yes No Within an unstable area, yes, a high Karst area
- Yes No Within a 100-year floodplain

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤50 feet	Total Chlorides***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On June 3, 2019, a produced water tank was struck by lightning causing a fire. The tank beside it, a condensate oil tank also caught fire and burned resulting in a leak. A total of 108 barrels (bbls) of condensate and 113 bbls of produced water was released. The fluids breached the containment and flowed into the pasture. A reported 221 bbls of total fluids were recovered.

Site Assessment

On June 6, 2019, Talon mobilized personnel to begin site assessment and soil sampling activities. Grab soil samples were collected in the impacted areas utilizing a hand auger to hard rock refusal. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix V](#).

6-6-19 Soil Sample Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD RRAL's for Site			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	6/6/2019	0	ND	ND	ND	ND	ND	0	48
		1	ND	ND	ND	ND	ND	0	16
S-2	6/6/2019	0	ND	ND	ND	ND	ND	0	1800
		1	ND	ND	ND	ND	ND	0	416
S-3	6/6/2019	0	ND	ND	ND	12.6	ND	12.6	2600
		1	ND	ND	ND	ND	ND	0	304
S-4	6/6/2019	0	76.8	ND	2110	6090	275	8475	544
		1	0.417	ND	ND	12.4	ND	12.4	512
S-5	6/6/2019	0	ND	ND	ND	ND	ND	0	352
		1	ND	ND	ND	ND	ND	0	240

ND= Analyte Not Detected

On August 8, 2019, Talon returned to the site to obtain soil borings utilizing a direct push geoprobe to fully delineate the extent of the impact. Results from our sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix V](#).

8-8-19 Boring Sample Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD RRAL's for Site			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
B-1	8/8/2019	0-1	ND	ND	ND	ND	ND	ND	256
		2	ND	ND	ND	ND	ND	ND	576
		3	ND	ND	ND	ND	ND	ND	512
		4	ND	ND	ND	ND	ND	ND	272
		5	ND	ND	ND	ND	ND	ND	160
		6	ND	ND	ND	ND	ND	ND	208
		7	ND	ND	ND	10.4	ND	ND	288
B-2	8/8/2019	0-1	ND	ND	ND	228	53.4	281.4	1730
		2	ND	ND	ND	ND	ND	ND	240
		3	ND	ND	ND	ND	ND	ND	208
		4	ND	ND	ND	299	86.3	385.3	3880
		5	ND	ND	ND	ND	ND	ND	400
		6	ND	ND	ND	ND	ND	ND	624
		7	ND	ND	ND	11.2	ND	11.2	544
B-3	8/8/2019	0-1	ND	ND	ND	106	16.1	122.1	496
		2	ND	ND	ND	ND	ND	ND	112
		3	ND	ND	ND	10.8	ND	10.8	256
		4	ND	ND	ND	ND	ND	ND	192
		5	ND	ND	ND	ND	ND	ND	176
		6	ND	ND	ND	ND	ND	ND	176

ND- Analyte Not Detected

9-18-19 Initial Confirmation Composite Soil Sample Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
West Excavation	9/18/2019	Bottom Composite	ND	ND	ND	35.1	ND	35.1	320
West Excavation	9/18/2019	W. Sidewall Composite	ND	ND	ND	ND	ND	ND	96
West Excavation	9/18/2019	S. Sidewall Composite	ND	ND	ND	ND	ND	ND	176
West Excavation	9/18/2019	N. Sidewall Composite	ND	ND	ND	ND	ND	ND	112
South Excavation	9/18/2019	Bottom Composite	0.532	ND	84.6	499	20.2	603.8	208
South Excavation	9/18/2019	S. Sidewall Composite	ND	ND	18	187	13.1	218.1	256
South Excavation	9/18/2019	E. Sidewall Composite	ND	ND	59.4	623	42.4	724.8	512
South Excavation	9/18/2019	W. Sidewall Composite	ND	ND	ND	ND	ND	ND	112
East Excavation	9/18/2019	Bottom Composite	ND	ND	25.6	157	15.5	198.1	240
East Excavation	9/18/2019	N. Sidewall Composite	ND	ND	ND	ND	ND	ND	960
East Excavation	9/18/2019	S. Sidewall Composite	ND	ND	ND	ND	ND	ND	464
East Excavation	9/18/2019	E. Sidewall Composite	ND	ND	ND	ND	ND	ND	640
East Excavation	9/18/2019	W. Sidewall Composite	ND	ND	ND	ND	ND	ND	304

ND- Analyte Not Detected

Additional excavation and confirmation sampling activities were carried out in order to meet NMOCD cleanup criteria.

9-24-19 Confirmation Composite Soil Sample Results

Sample ID	Sample Date	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC						100 mg/kg	600 mg/kg
South Excavation	9/24/2019	Bottom Composite	ND	ND	ND	ND	--
South Excavation	9/24/2019	S. Sidewall Composite	ND	ND	ND	ND	--
South Excavation	9/24/2019	E. Sidewall Composite	ND	ND	ND	ND	--
East Excavation	9/24/2019	Bottom Composite	ND	ND	ND	ND	--
East Excavation	9/24/2019	N. Sidewall Composite	--	--	--	--	688
East Excavation	9/24/2019	E. Sidewall Composite	--	--	--	--	160

ND- Analyte Not Detected -- Analyte Not Tested

9-27-19 Confirmation Composite Soil Sample Results

Sample ID	Sample Date	Depth (BGS)	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			600 mg/kg
East Excavation	9/27/2019	N. Sidewall Composite	16

Remedial Actions:

- The impacted area in the vicinity of B-3, S-2, S-3 and S-4 was excavated vertically to a depth of 2.0-feet BGS. Confirmation bottom and sidewall composite soil sample results indicated that this material was below the standards of Table I of 19.15.29.12 NMAC and therefore acceptable.
- The impacted area in the vicinity of B-2 was excavated vertically to a depth of 4.0-feet BGS. Confirmation bottom and sidewall composite soil sample results indicated that this material was below the standards of Table I of 19.15.29.12 NMAC and therefore acceptable.
- The backfilling activities were completed with newly obtained caliche, machine compacted and contoured to match the surrounding location.
- The pasture was backfilled with newly obtained topsoil and will be seeded with a 50% mixture of BLM #1 and BLM #2 seed mix in the spring.
- The contaminated material was hauled to Lea Land LLC, a NMOCD approved solid waste disposal facility.
- See [Appendix IV](#) for Photographic Documentation of remedial actions and Geo-tagged photos of Talon's confirmation sampling locations.
- A Final C-141 is attached in [Appendix III](#).

Closure

On behalf of Devon Energy we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE



Chris K. Jones
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Map, Karst Map, TOPO Map & Locator Map
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Zone
- Appendix III Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data



APPENDIX I

IMPACT AREA MAP

KARST MAP

TOPO MAP

LOCATOR MAP

Burton Flat Deep #43

Devon Energy Corporation
Eddy County, NM
API 30-015-33626
Site Map

Legend

- 2' Excavation
- 4' Excavation
- Confirmation Samples
- Initial Samples
- Surface Scrape



Google Earth

9/29/10 6:38:47

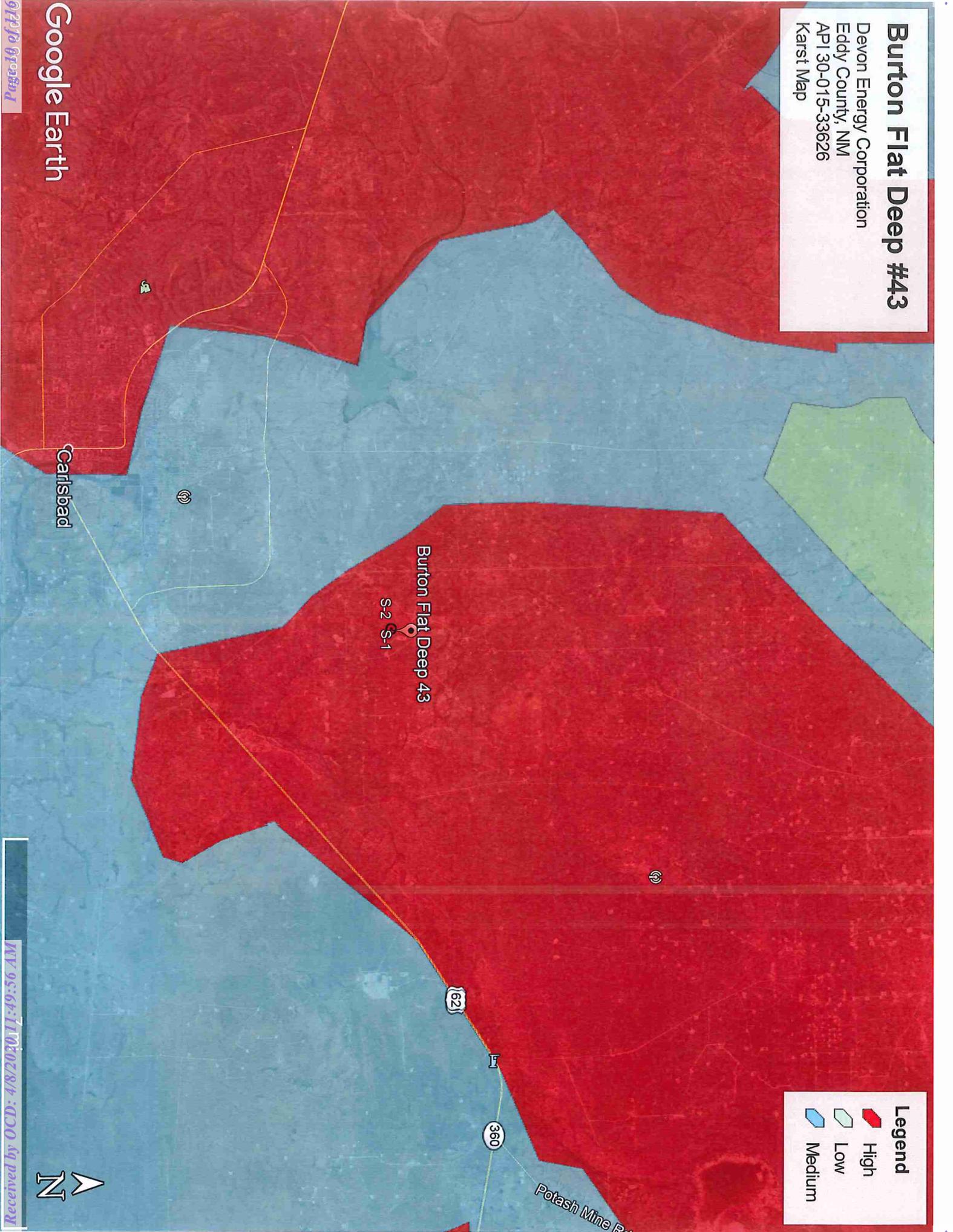
Received by OCD: 4/8/2010 4:49:56 AM

Burton Flat Deep #43

Devon Energy Corporation
Eddy County, NM
API 30-015-33626
Karst Map

Legend

- High
- Low
- Medium



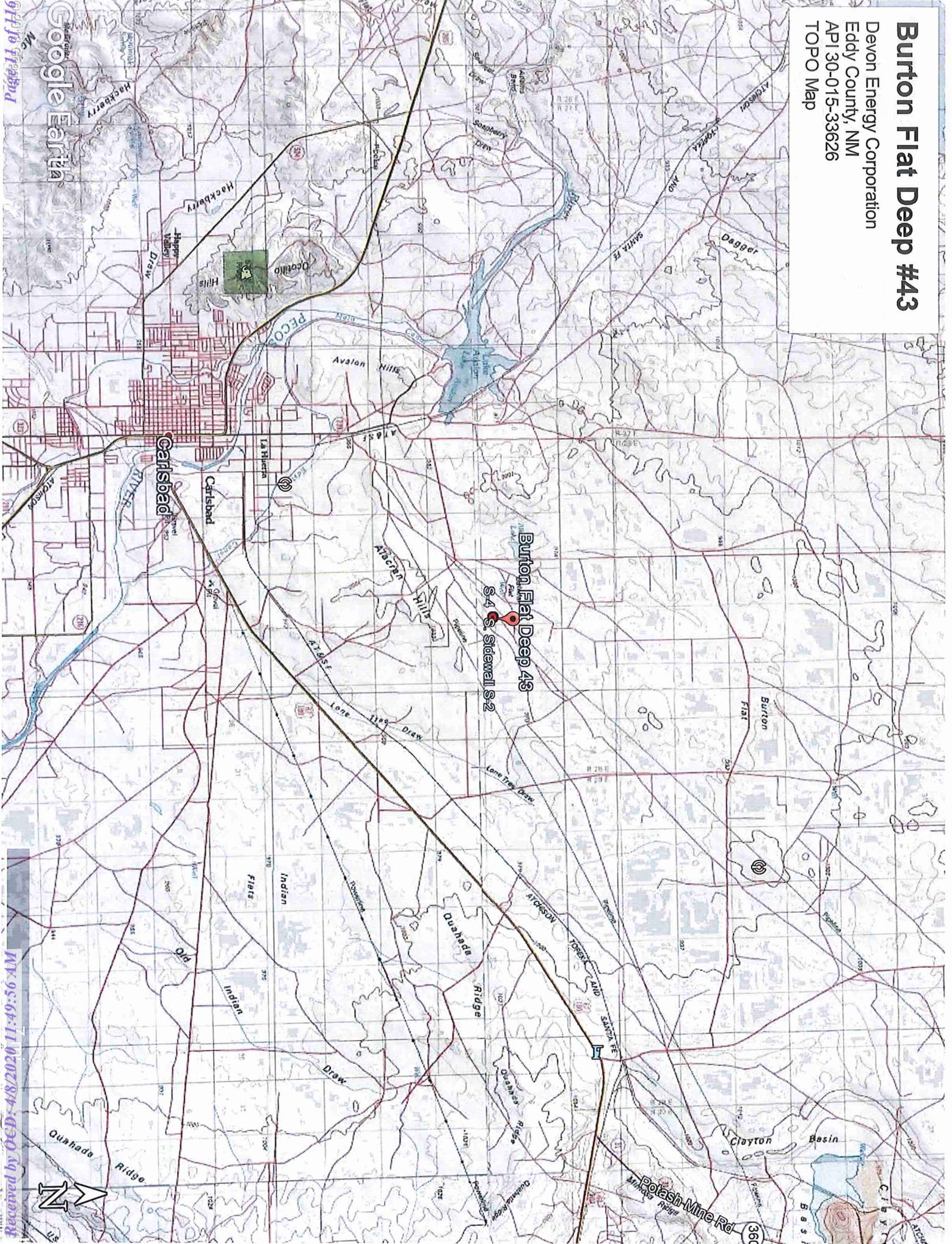
Google Earth

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Received by OCD: 4/8/20 9:59:11 AM

Burton Flat Deep #43

Devon Energy Corporation
Eddy County, NM
API 30-015-33626
TOPO Map



Google Earth
97110 992814

Record by CD: 11/02/2020 8:47:30 AM



Burton Flat Deep #43

Devon Energy Corporation
Eddy County, NM
API 30-015-33626
Locator Map

Burton Flat Deep 43

N Loop Rd

Hobbs Hwy

Google Earth

972016 Coors Dr

E Greene St

Received by OCD: 11/02/2017





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 6	Q 4	Q 16	Q 24	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 01841		C	ED			1	29	24S	27E		573806	3561953*	1096	150		
C 03560 POD1		C	ED	2	3	3	18	24S	27E		572009	3564150	1925	68	28	40
C 00929		C	ED	3	3	18	24S	27E			572013	3564159*	1931	54	33	21
C 01169		C	ED	1	4	3	18	24S	27E		572282	3564261*	1936	55	35	20
C 03777 POD1		C	ED	3	1	2	24	24S	26E		571120	3563571	2052	55	28	27
C 02043		C	ED	2	1	24	24S	26E			570805	3563758*	2418	42	28	14
C 00262	R	C	ED	4	3	1	24	24S	26E		570481	3563253*	2475	50		
C 00690		C	ED	1	3	3	24	24S	26E		570288	3562653*	2528	30	10	20
C 00262 POD2		C	ED	4	3	1	24	24S	26E		570234	3562337	2570	45	18	27
C 00100 A		CUB	ED	1	1	3	24	24S	26E		570284	3563053	2603	51	26	25
C 00949		C	ED	1	1	3	24	24S	26E		570284	3563053*	2603	62	35	27
C 00692		C	ED	3	3	1	24	24S	26E		570281	3563253*	2664	50	42	8
C 01616		C	ED	2	4	23	24S	26E			569988	3562956*	2870	84	84	0
C 00883		C	ED	3	2	4	23	24S	26E		569887	3562855*	2952	60	14	46
C 01085		C	ED	4	2	23	24S	26E			569990	3563356*	2972	127	60	67

Average Depth to Water: **33 feet**
 Minimum Depth: **10 feet**
 Maximum Depth: **84 feet**

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 572803.703 **Northing (Y):** 3562396.58 **Radius:** 3000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/5/19 10:58 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

National Flood Hazard Layer FIRMette



32°30'32.17"N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X)

Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee. See Notes, Zone X
Area with Flood Risk due to Levee Zone D

NO SCREEN
Area of Minimal Flood Hazard Zone X
Effective LOMRS

OTHER AREAS OF FLOOD HAZARD
Area of Undetermined Flood Hazard Zone
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

GENERAL STRUCTURES
20.2
17.5
Cross Sections with 1% Annual Chance Water Surface Elevation

OTHER FEATURES
59
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS
Digital Data Available
No Digital Data Available
Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2019 at 1:05:23 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54
Elevation: 2,700 to 5,500 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Interdunes, dunes, plains
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand
H2 - 13 to 36 inches: fine sandy loam
H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Loamy Sand (R042XC003NM)

Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Hydric soil rating: No

Minor Components

Wink

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Berino

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 14, Sep 12, 2018



APPENDIX III

FINAL C-141

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	33 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Chris Jones

Title: Project Manager

Signature: 

Date: 11-4-19

email: cjones@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chris Jones

Title: Project Manager

Signature: 

Date: 11-4-19

email: cjones@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____

Date: _____

Printed Name: _____

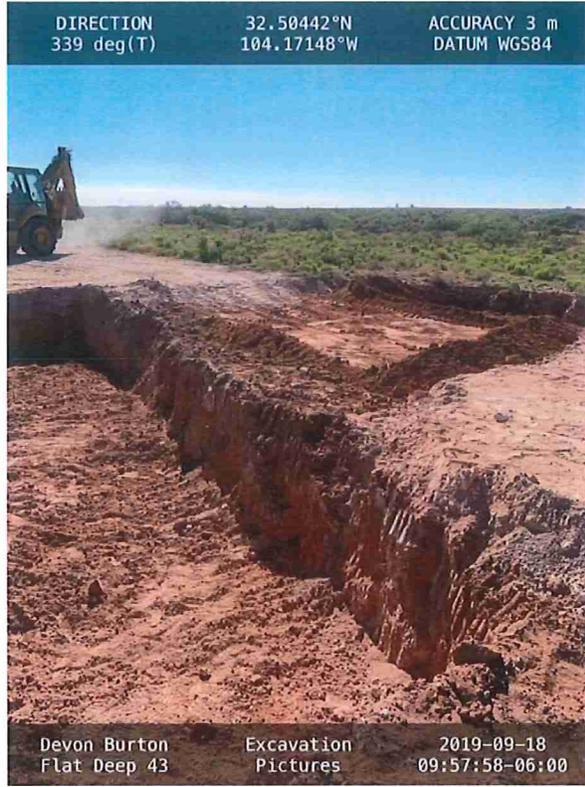
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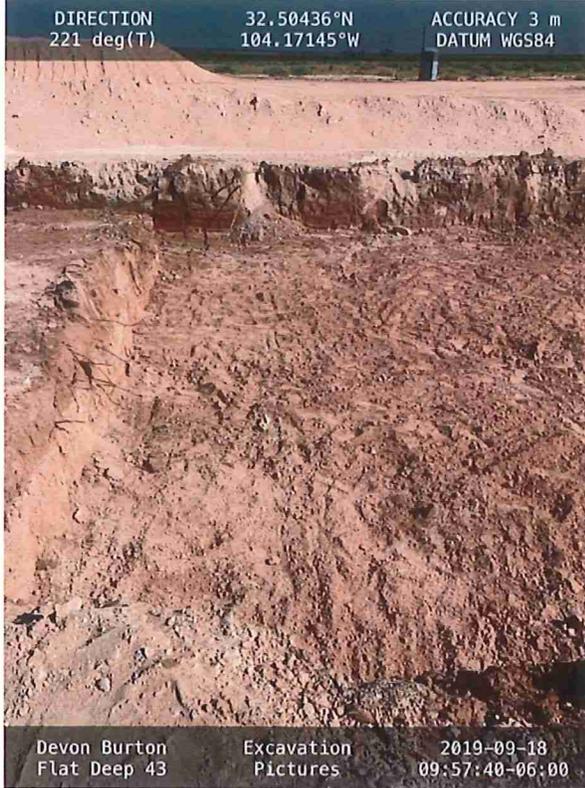


APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

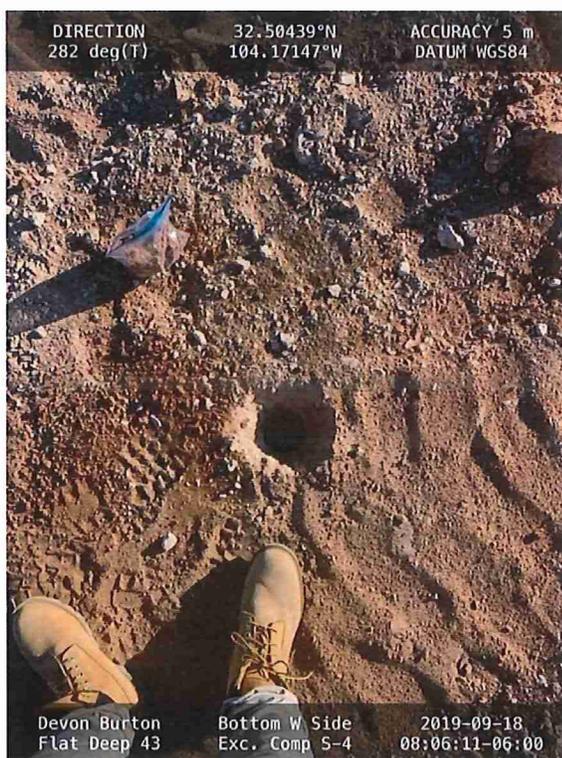
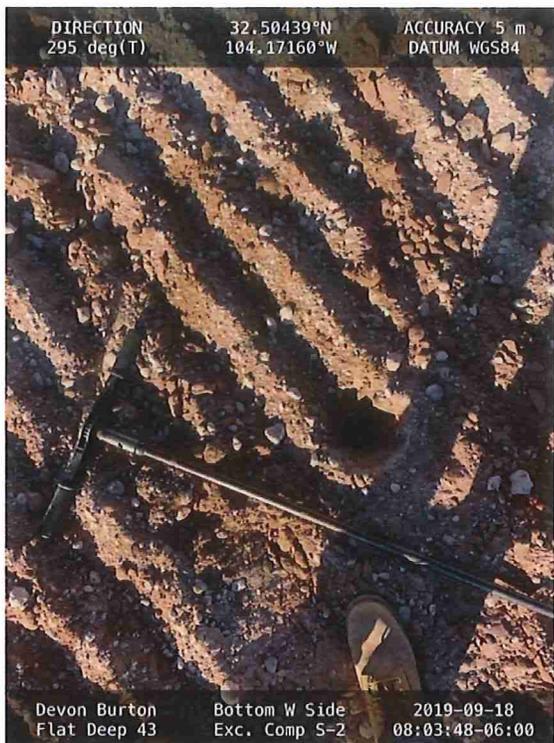
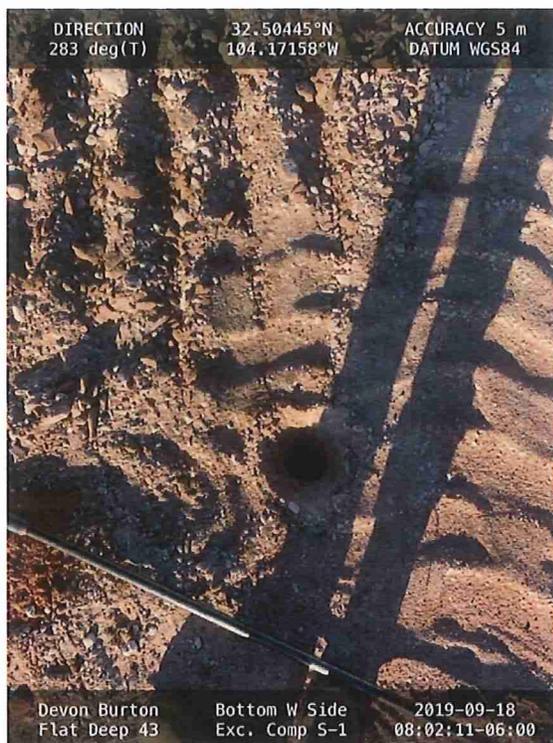
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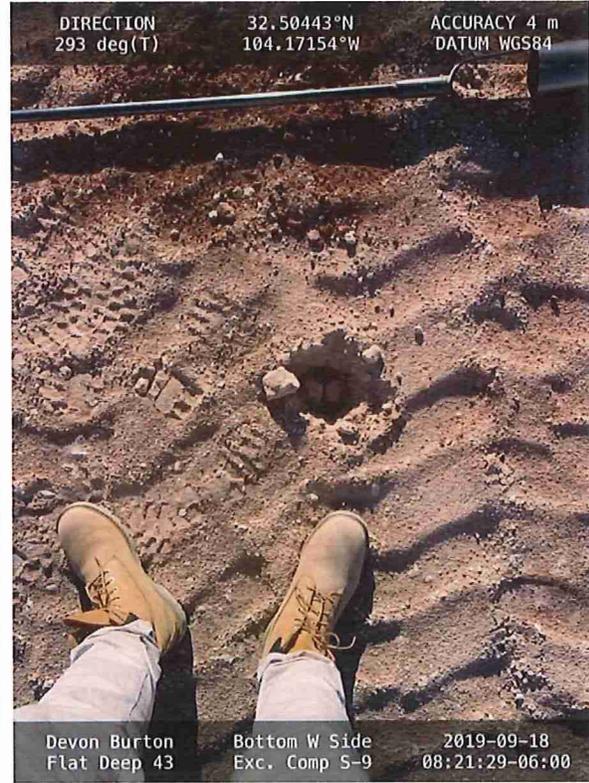
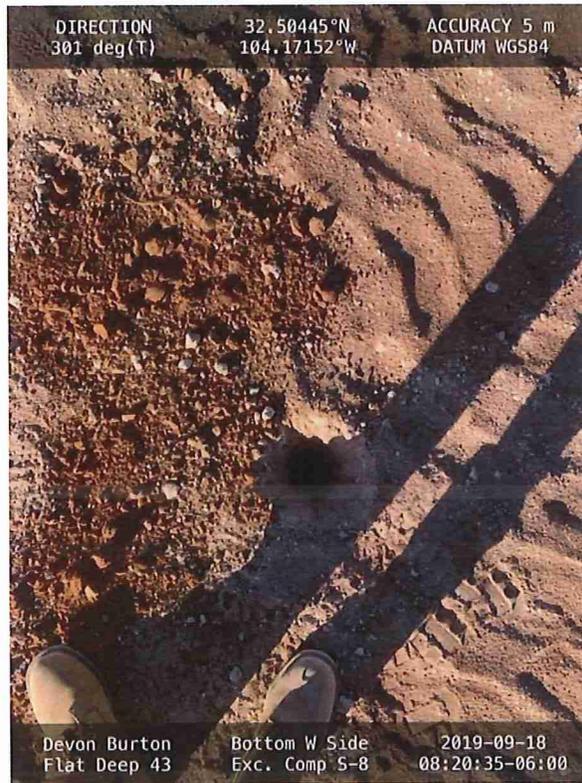
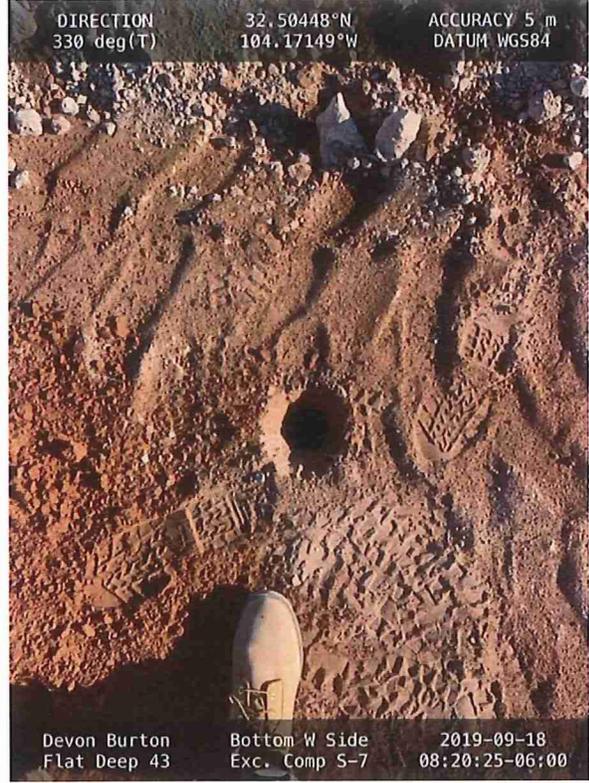
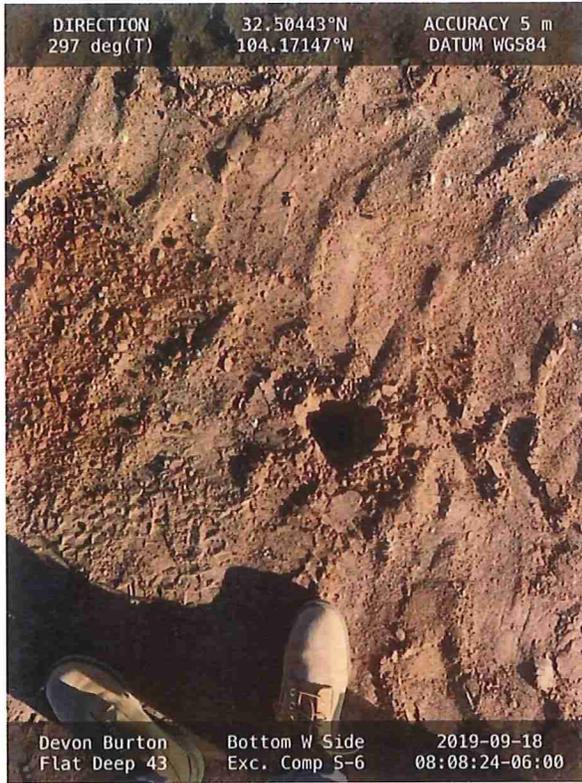


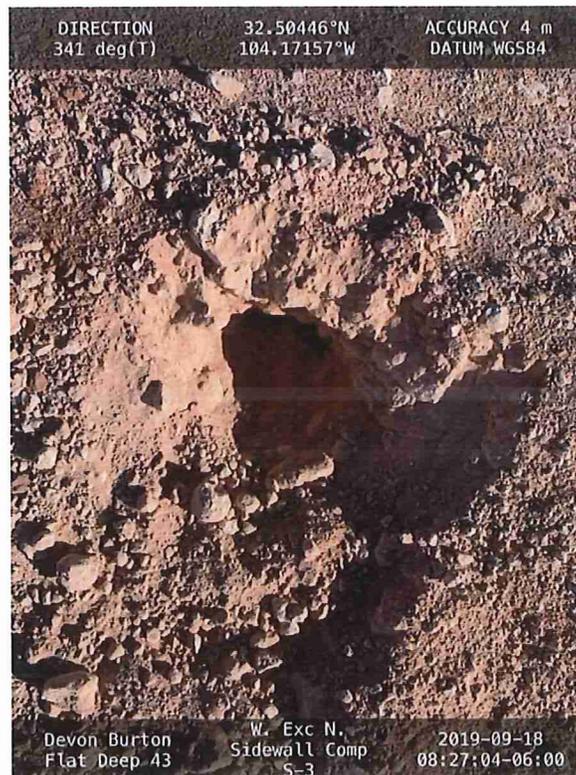


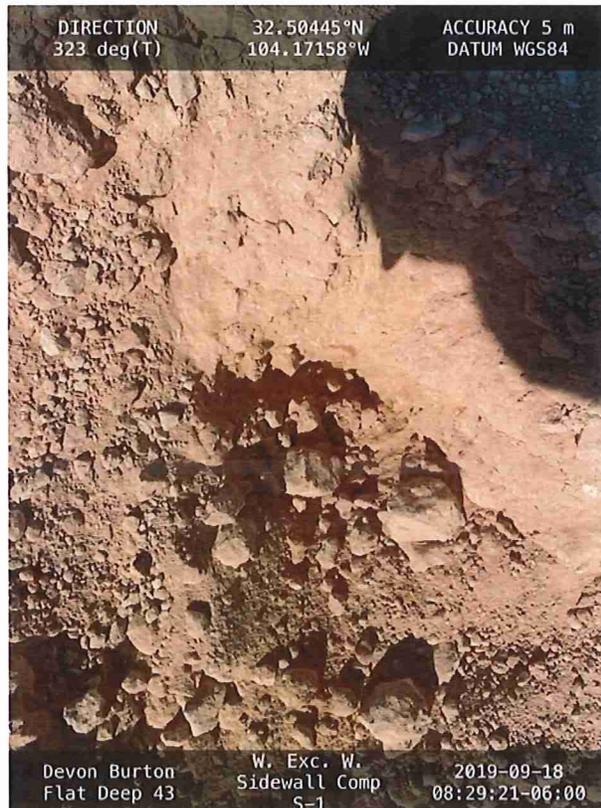
GEO-Tagged Photos

West Excavation



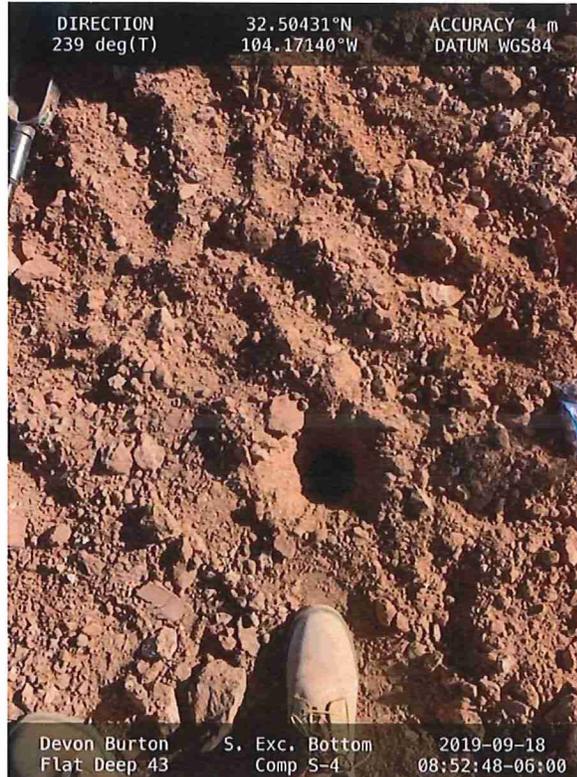
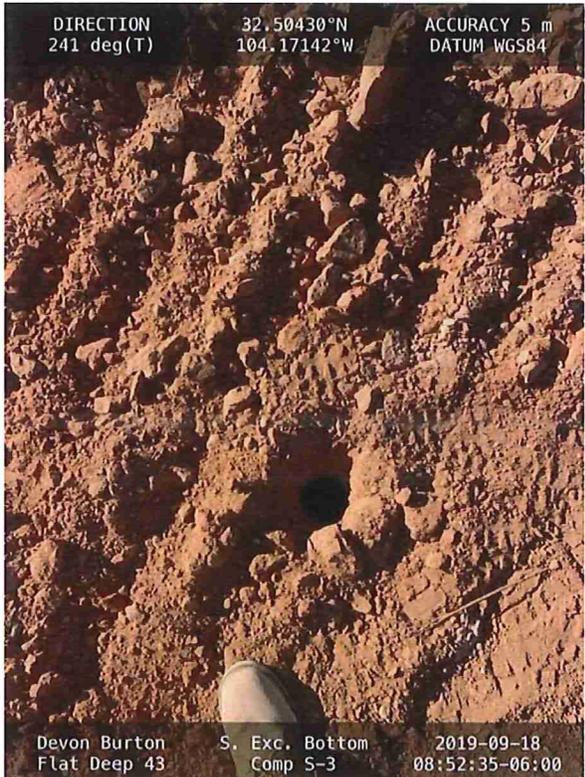
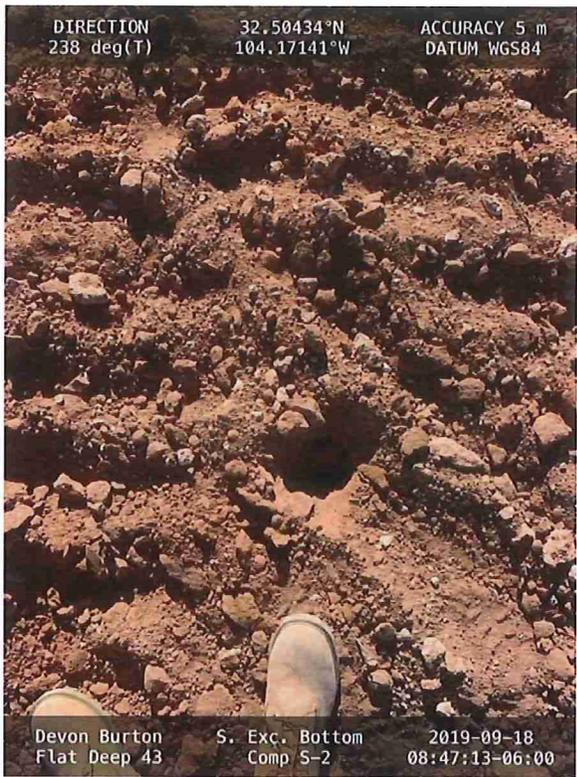
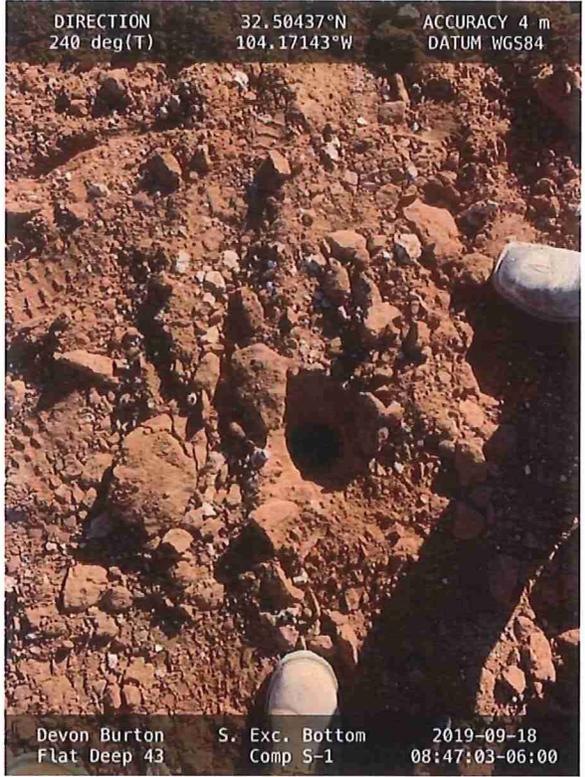


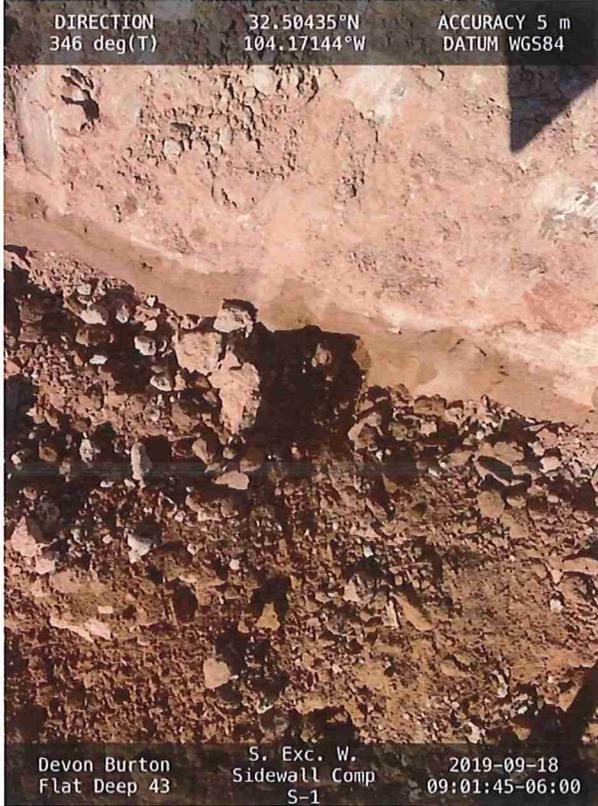
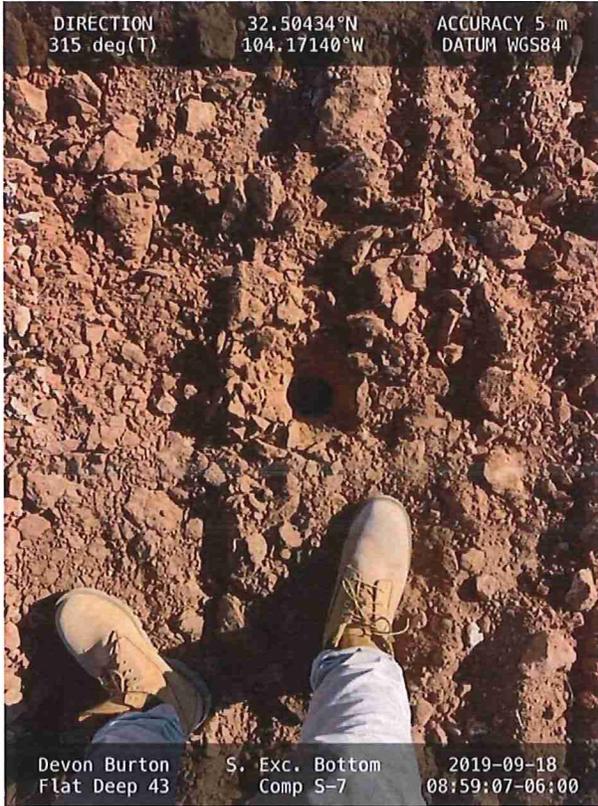
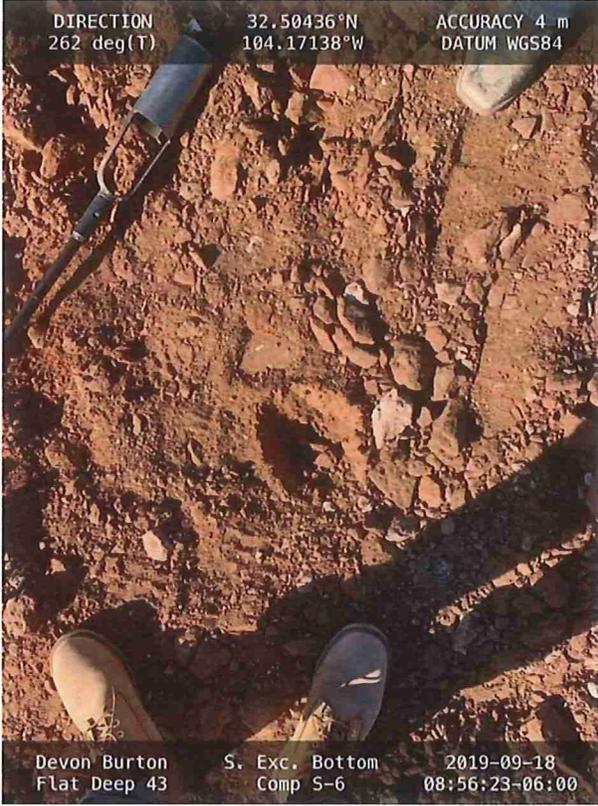
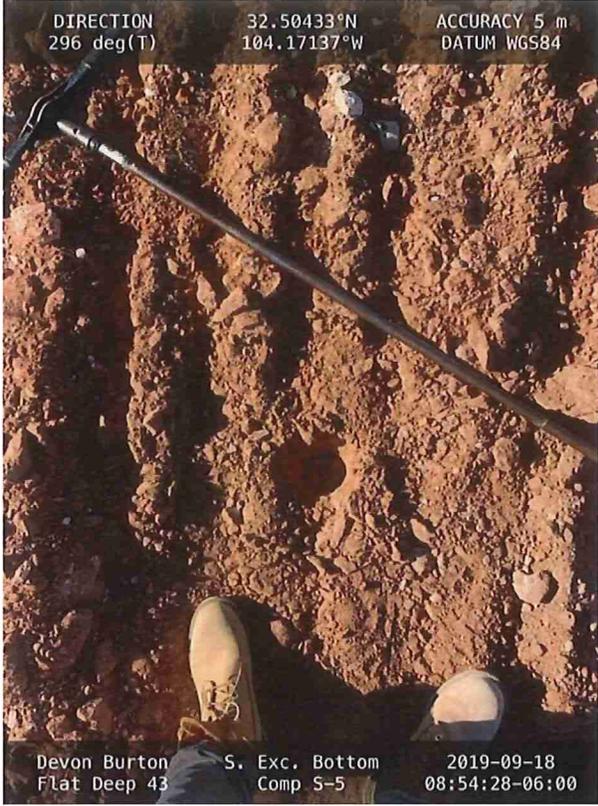


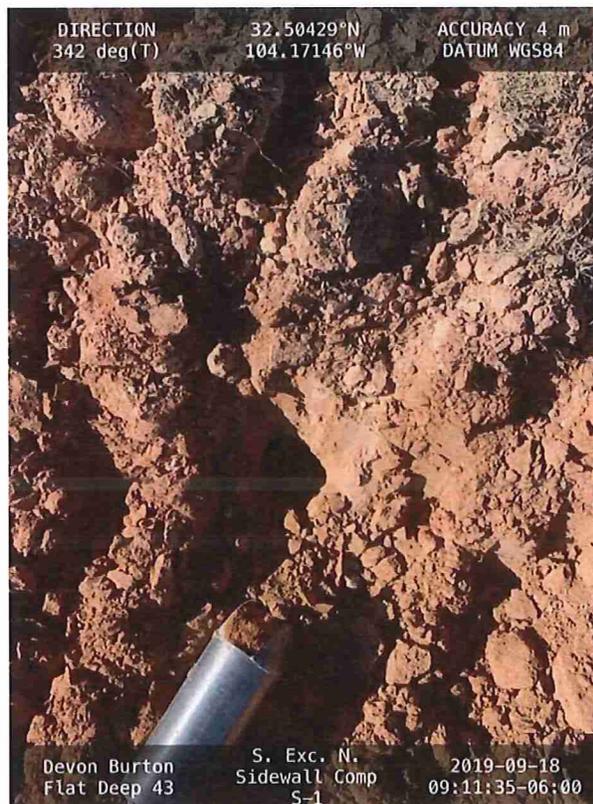


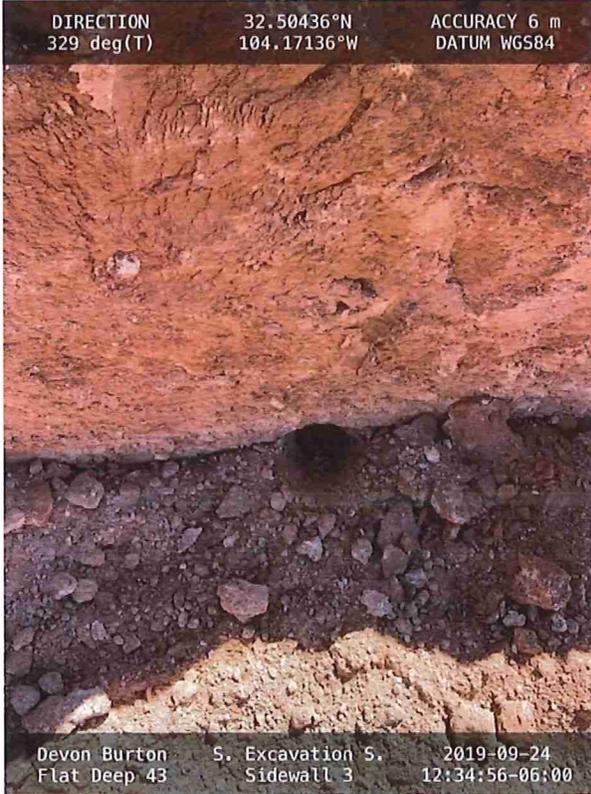
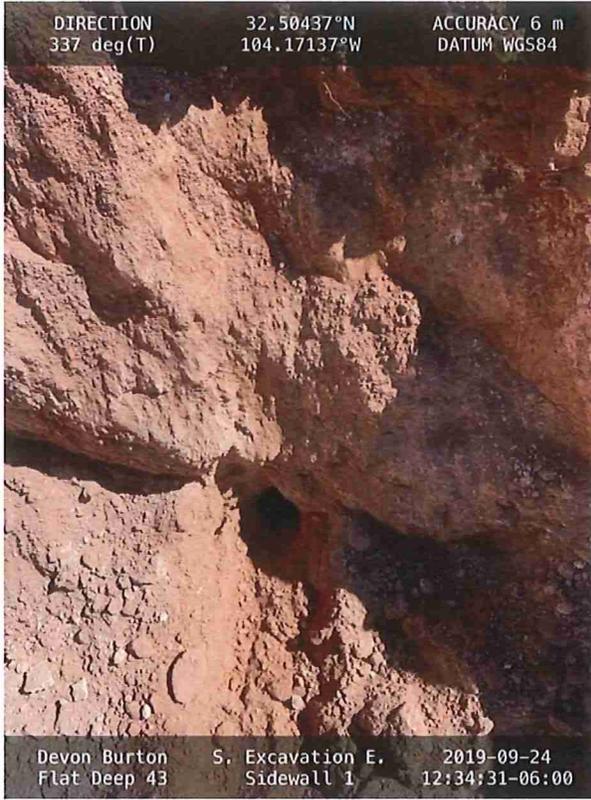


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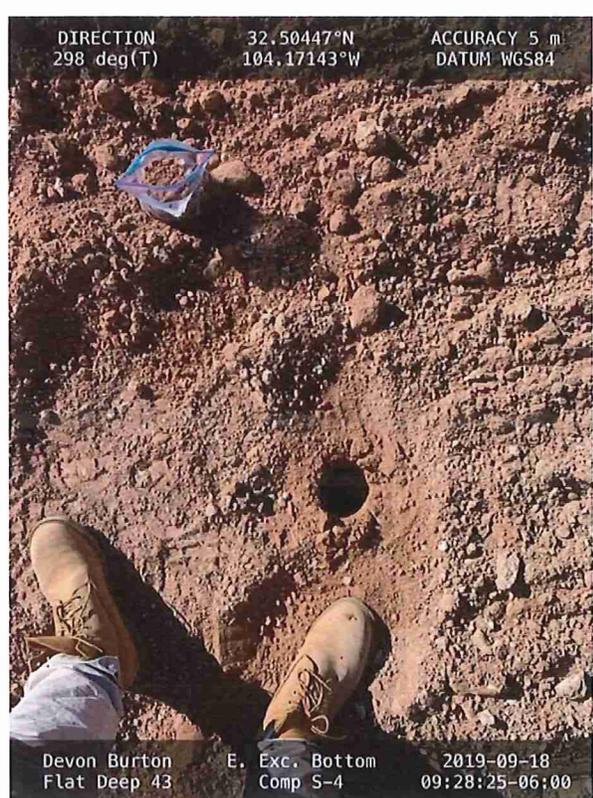
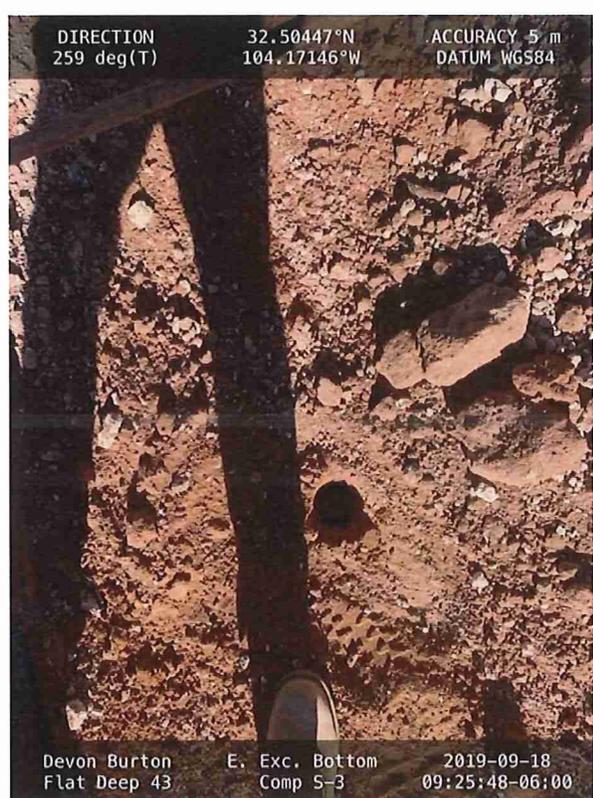
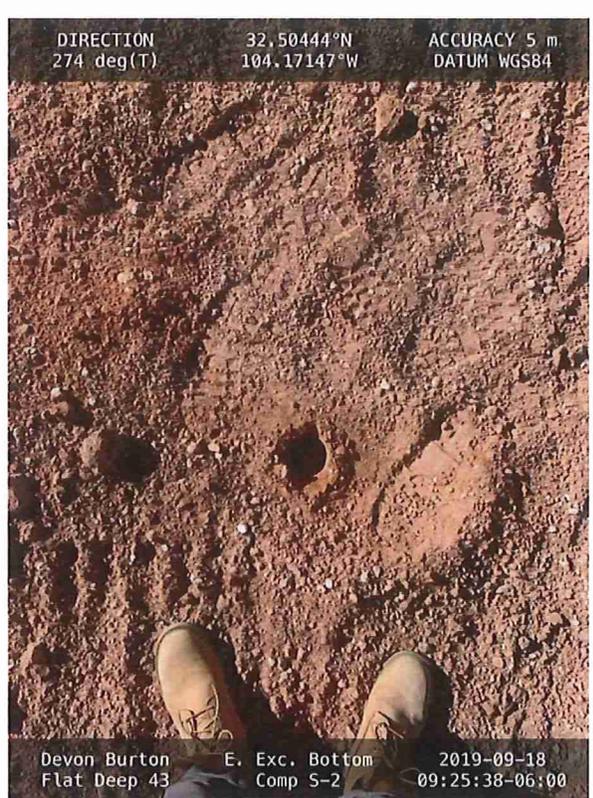


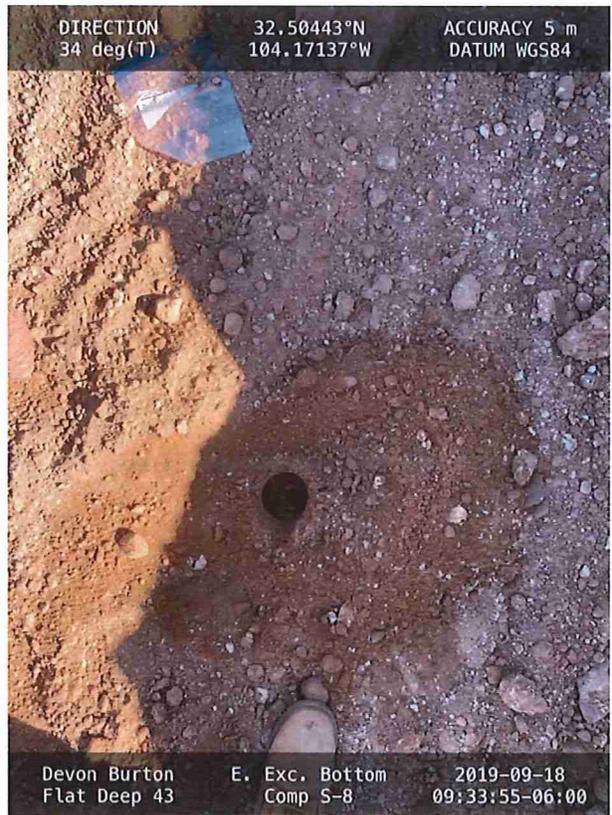
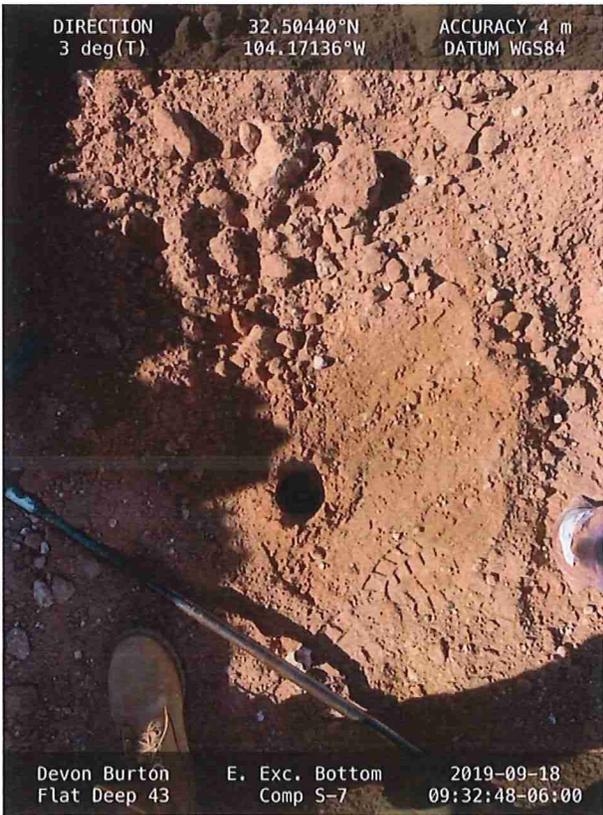
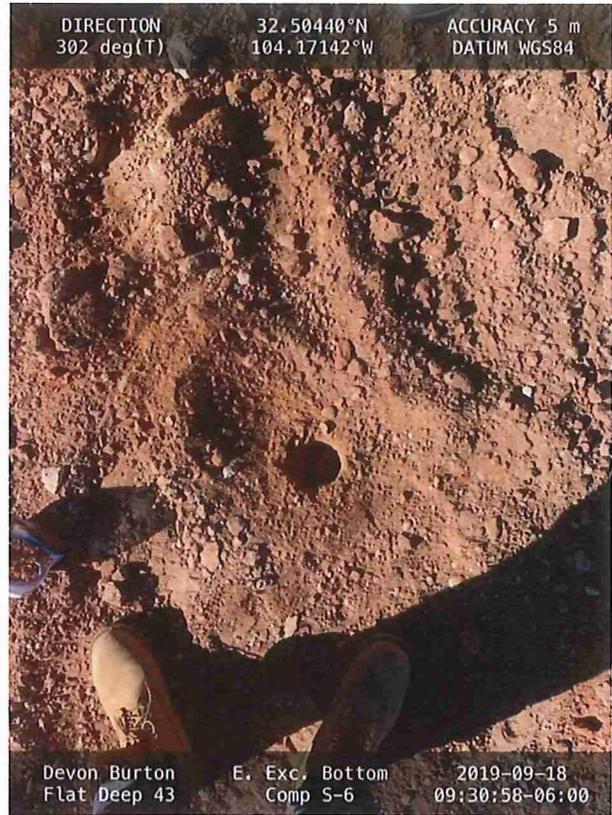
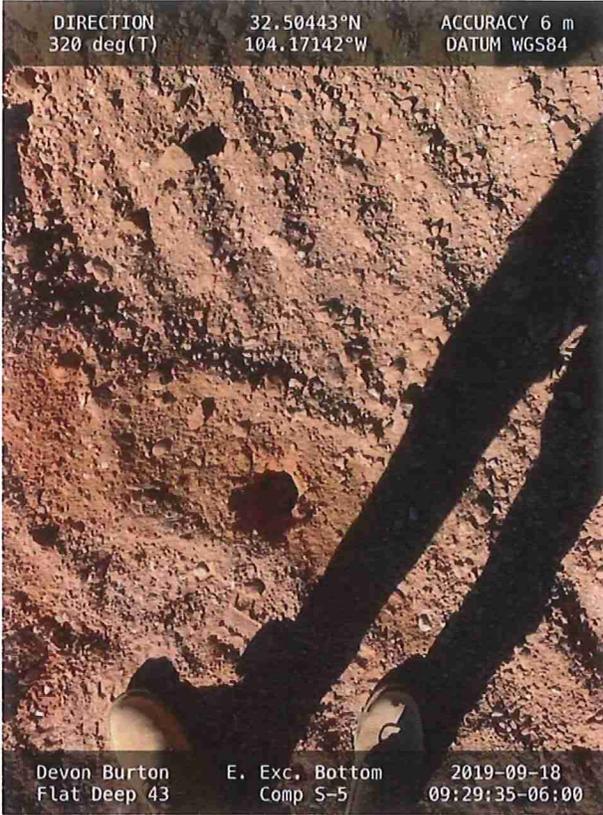


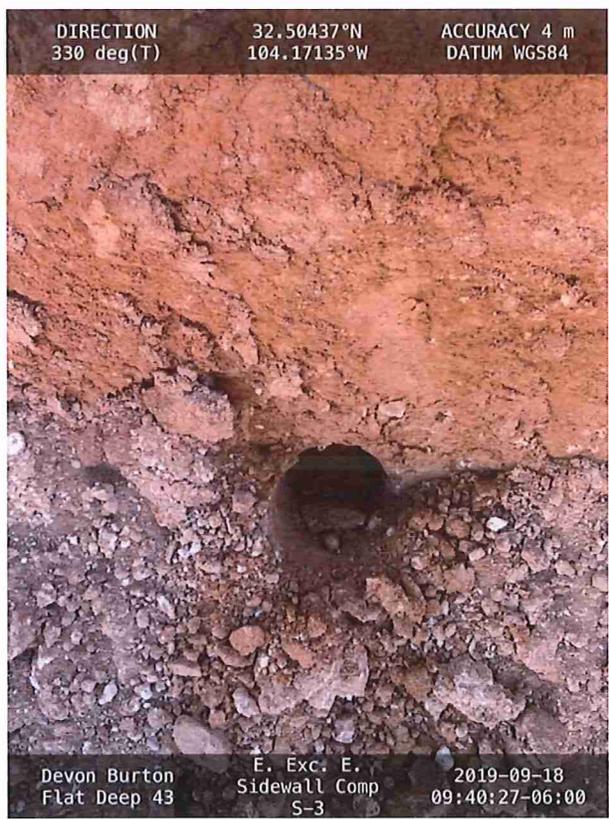


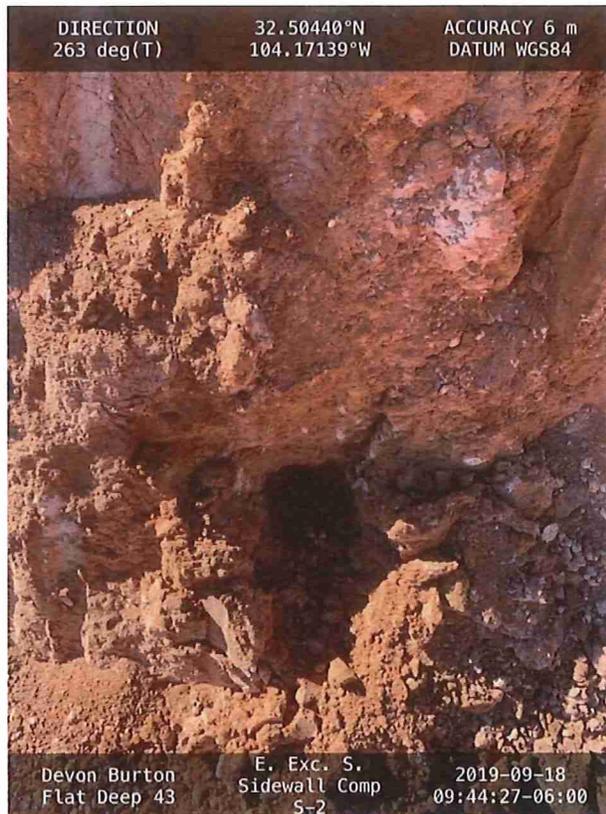


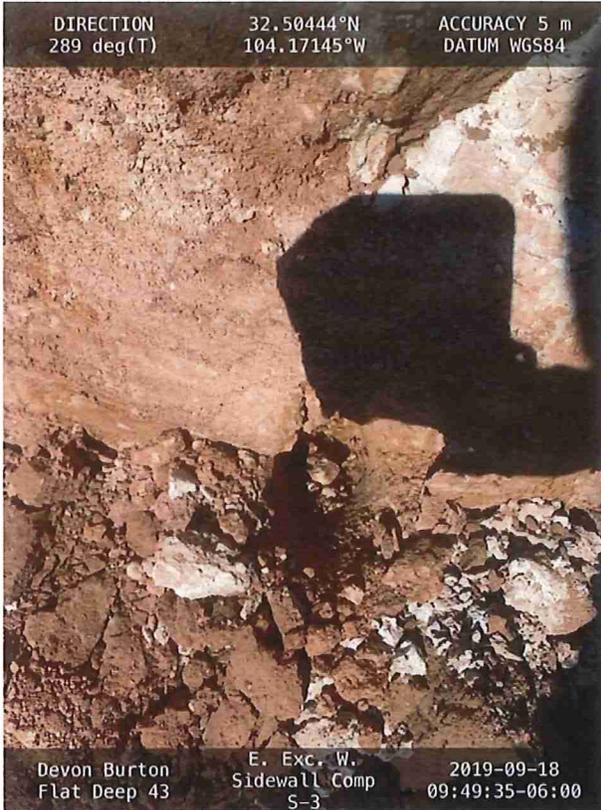
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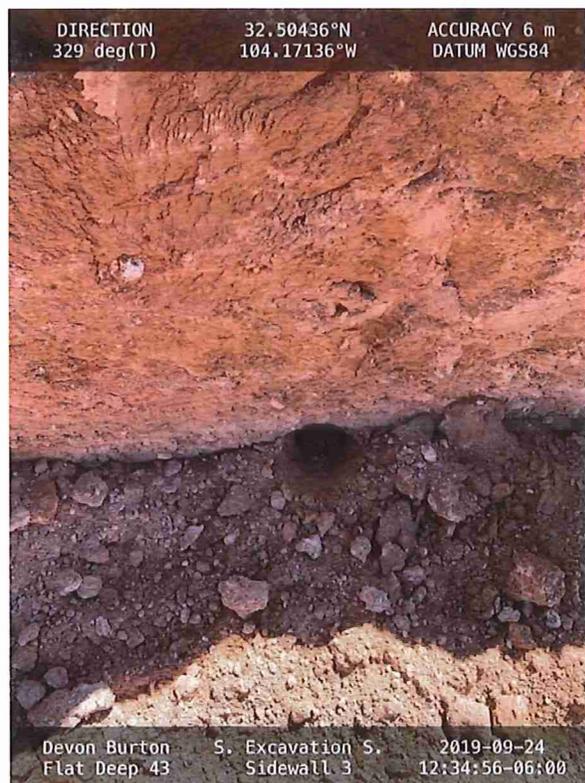
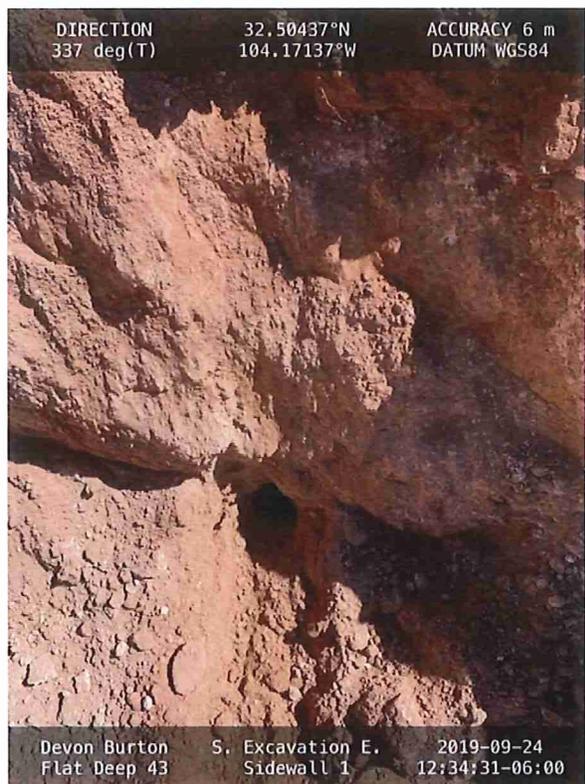


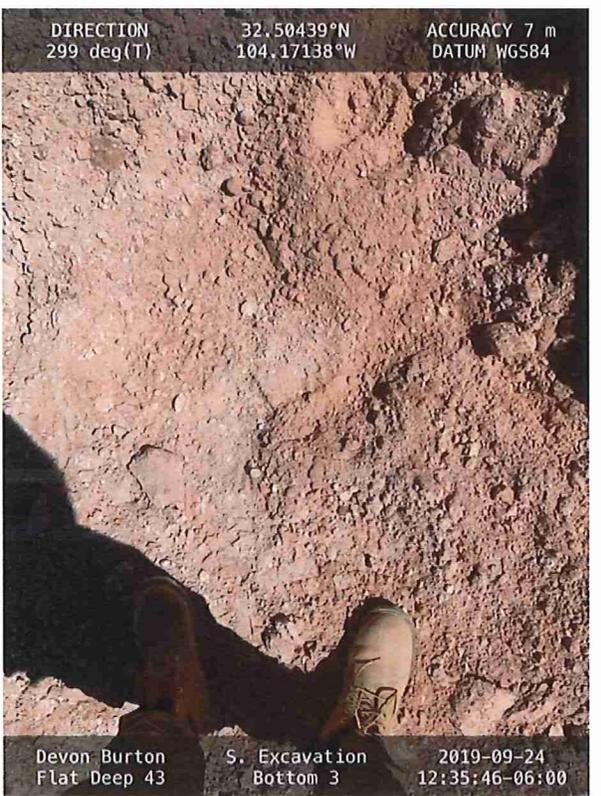
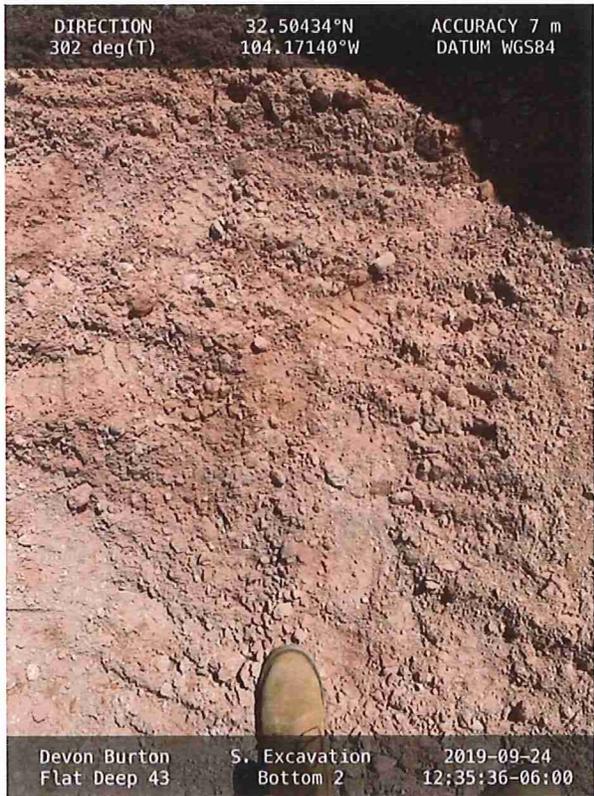
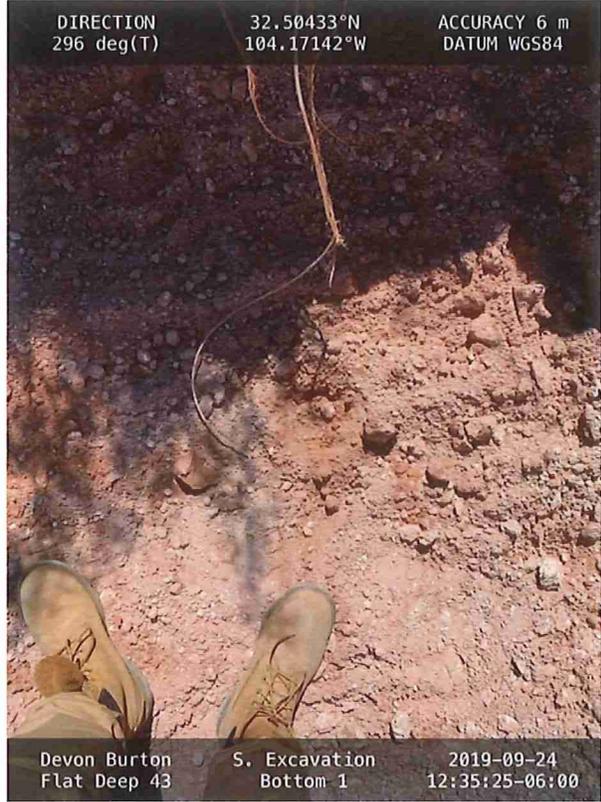


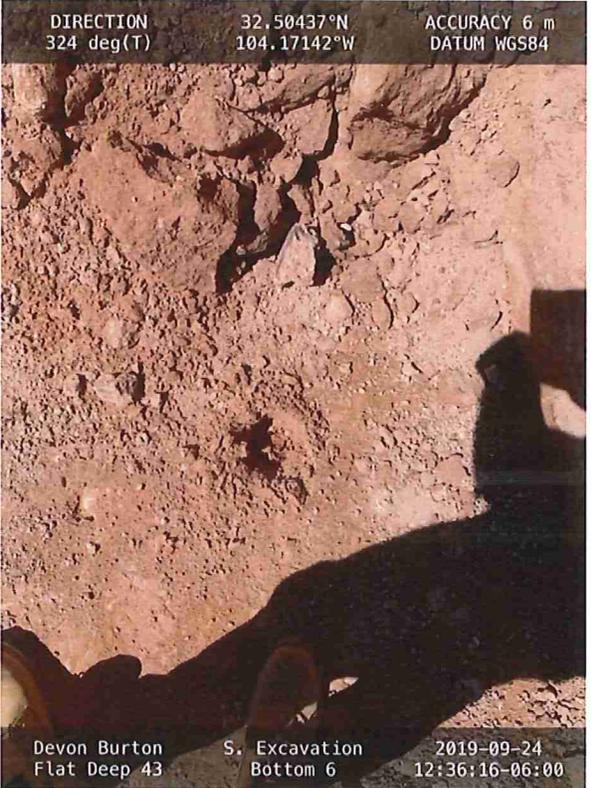
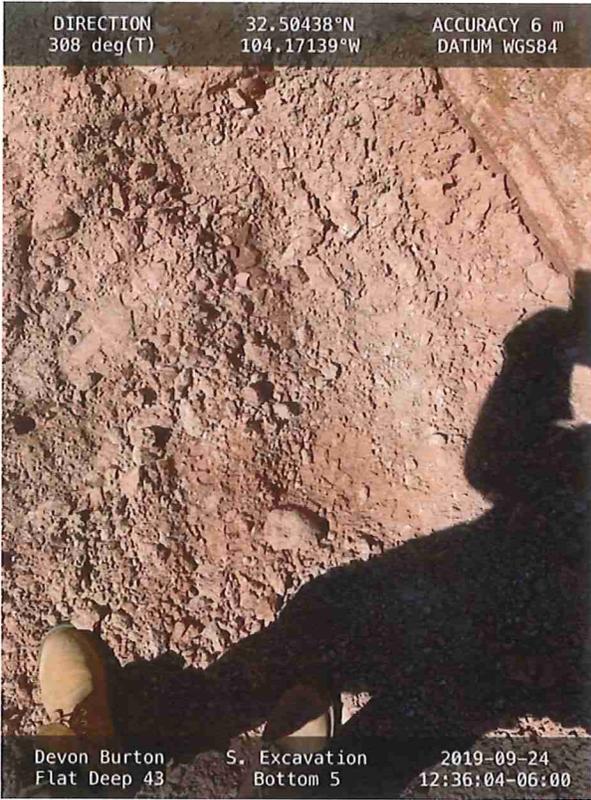


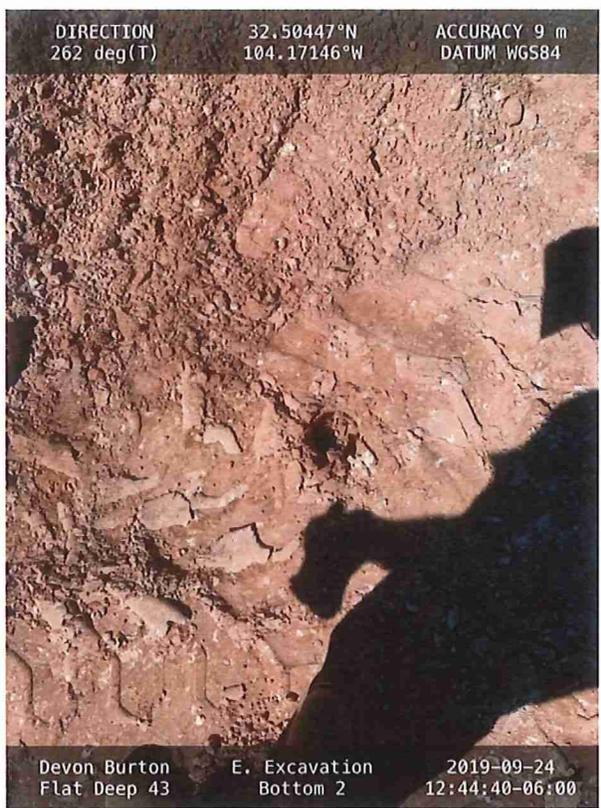


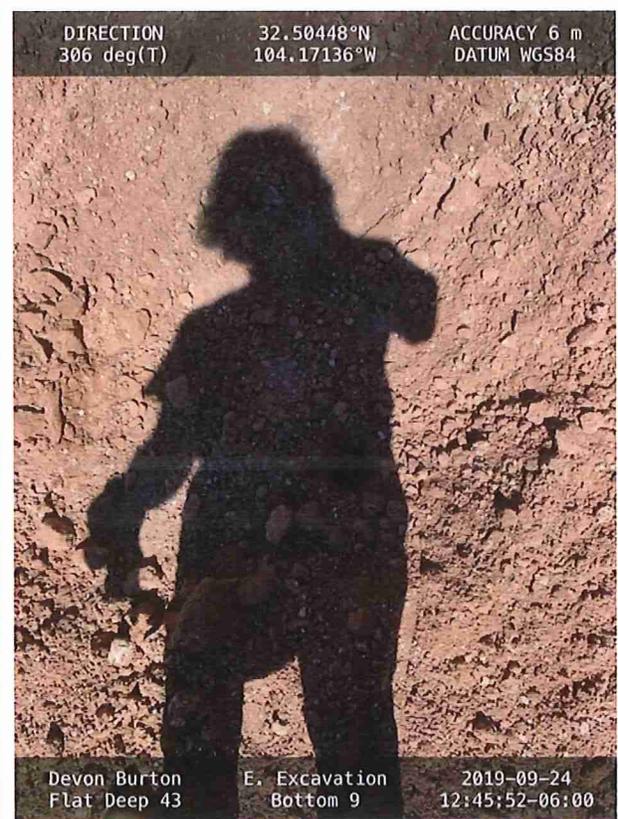
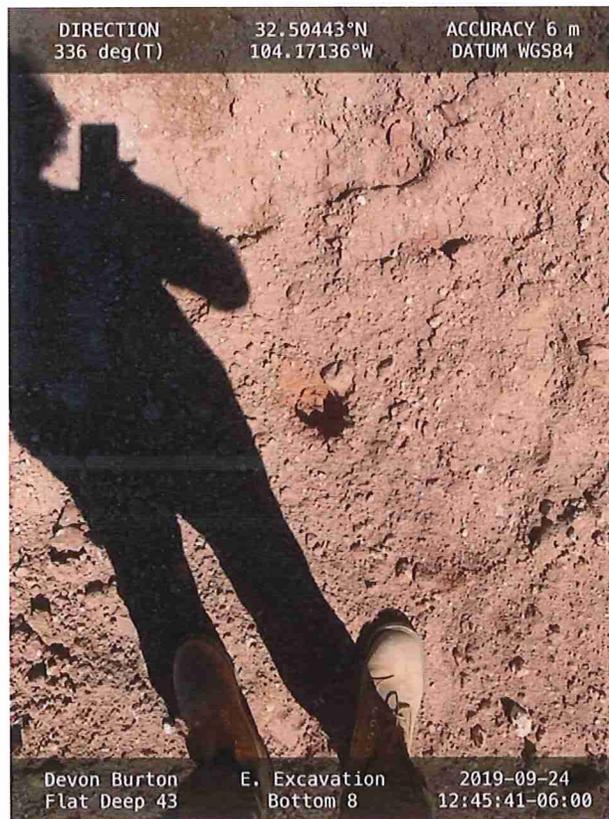
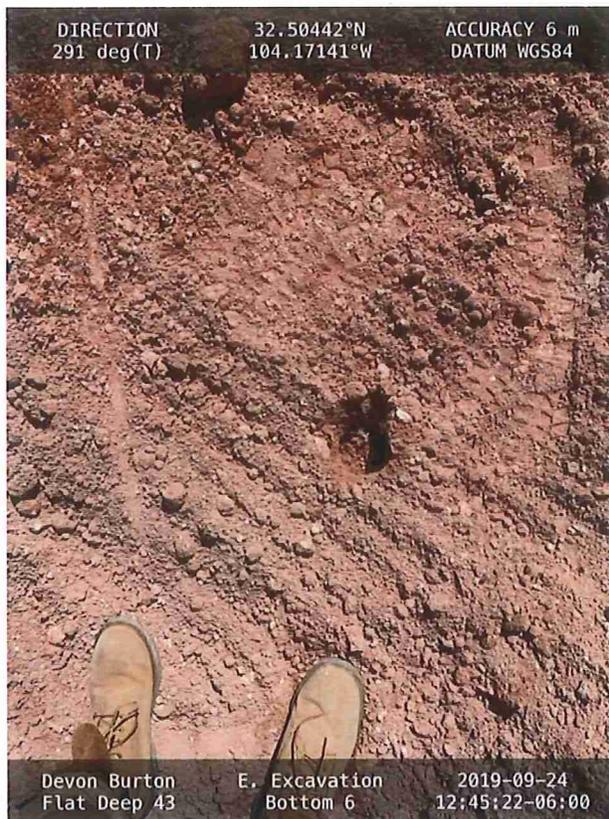
9-24-19 2nd Round of Confirmation Samples

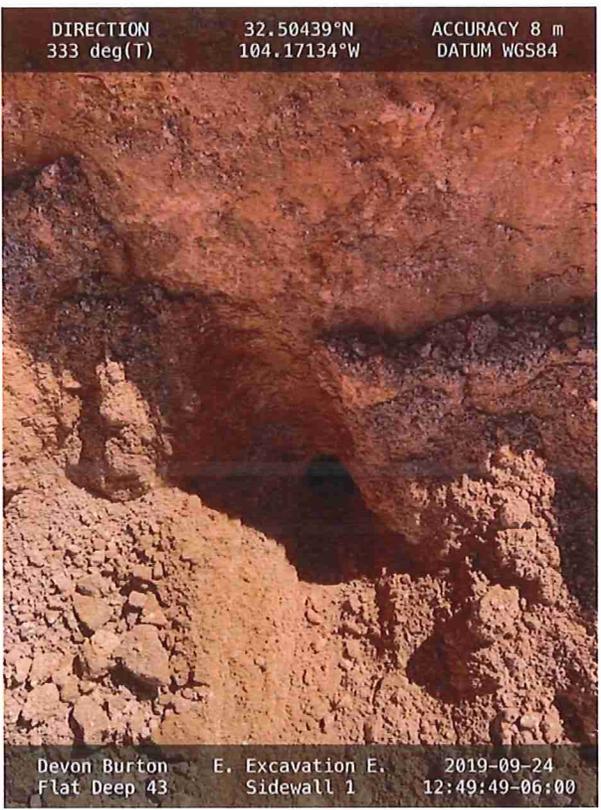
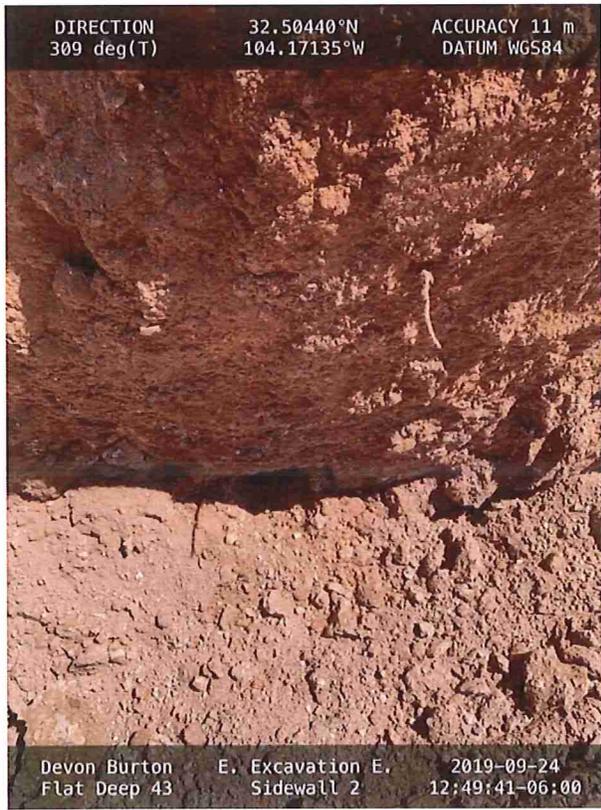
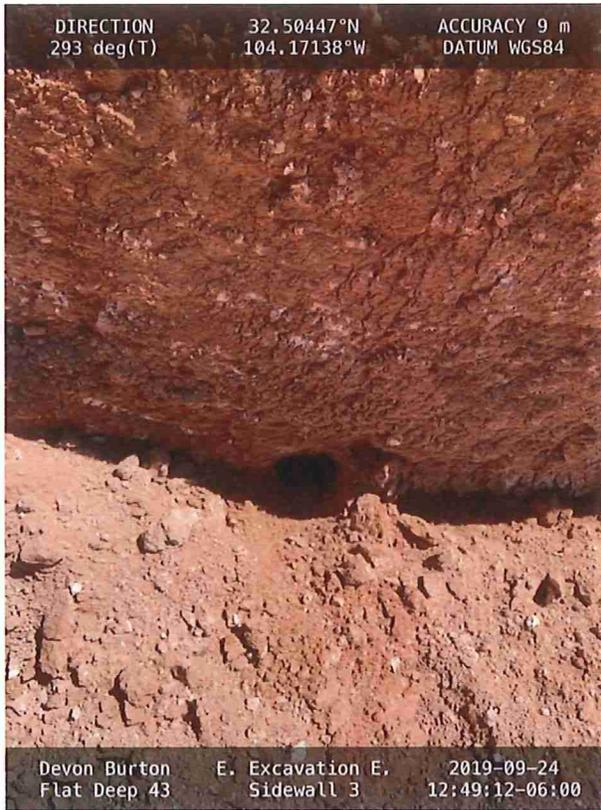
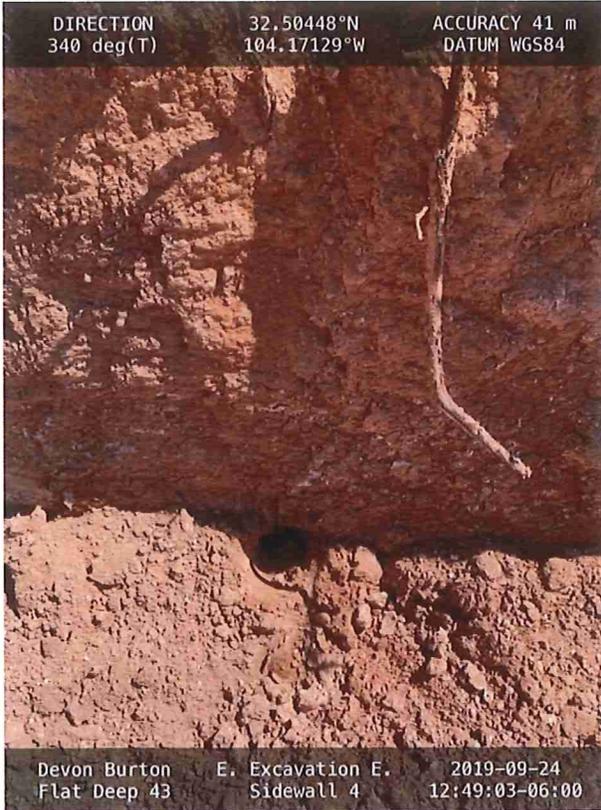


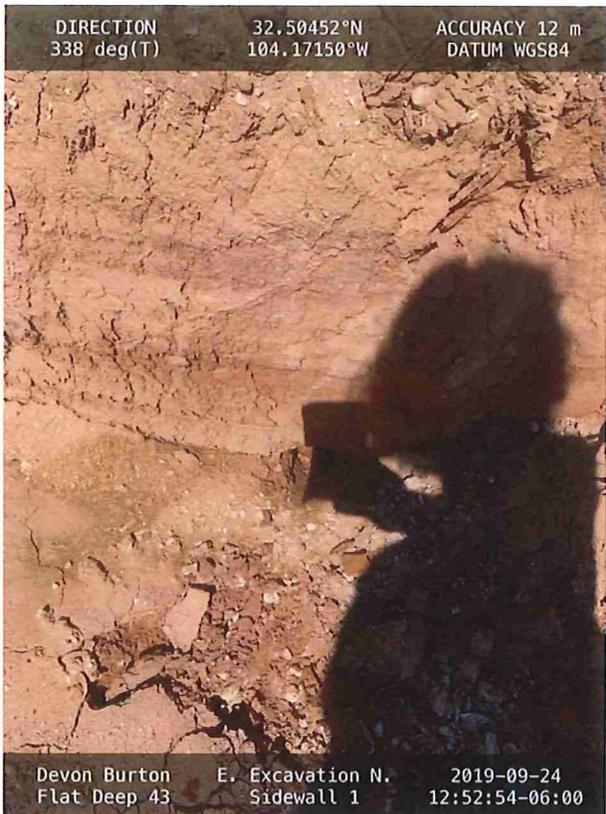












Completion





APPENDIX V

LABORATORY DATA



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 07, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BURTON FLAT DEEP UNIT #43

Enclosed are the results of analyses for samples received by the laboratory on 06/06/19 17:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 1 0' (H901991-01)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52		
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55		
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36		
Total BTEX	<0.300	0.300	06/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 141 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/07/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42		
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 1 1' (H901991-02)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52	
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36	
Total BTEX	<0.300	0.300	06/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/07/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42	
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 2 0' (H901991-03)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52		
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55		
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36		
Total BTEX	<0.300	0.300	06/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	06/07/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42		
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 2 1' (H901991-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52	
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36	
Total BTEX	<0.300	0.300	06/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/07/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42	
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 3 0' (H901991-05)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52	
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36	
Total BTEX	<0.300	0.300	06/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	06/07/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42	
DRO >C10-C28*	12.6	10.0	06/07/2019	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 3 1' (H901991-06)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2019	ND	2.22	111	2.00	7.52		
Toluene*	<0.050	0.050	06/06/2019	ND	1.98	98.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	06/06/2019	ND	1.91	95.3	2.00	6.55		
Total Xylenes*	<0.150	0.150	06/06/2019	ND	5.71	95.2	6.00	5.36		
Total BTEX	<0.300	0.300	06/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/07/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42		
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 4 0' (H901991-07)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	06/07/2019	ND	2.22	111	2.00	7.52		
Toluene*	1.39	0.200	06/07/2019	ND	1.98	98.9	2.00	7.60		
Ethylbenzene*	4.41	0.200	06/07/2019	ND	1.91	95.3	2.00	6.55		
Total Xylenes*	71.0	0.600	06/07/2019	ND	5.71	95.2	6.00	5.36		
Total BTEX	76.8	1.20	06/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 146 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	06/07/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2110	10.0	06/07/2019	ND	245	123	200	3.42		
DRO >C10-C28*	6090	10.0	06/07/2019	ND	224	112	200	1.54		
EXT DRO >C28-C36	275	10.0	06/07/2019	ND						

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 187 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/06/2019 Sampling Date: 06/06/2019
Reported: 06/07/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Jodi Henson
Project Location: EDDY COUNTY, NM

Sample ID: S- 4 1' (H901991-08)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 5 0' (H901991-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	2.22	111	2.00	7.52	
Toluene*	<0.050	0.050	06/07/2019	ND	1.98	98.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.91	95.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.71	95.2	6.00	5.36	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/07/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42	
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/06/2019	Sampling Date:	06/06/2019
Reported:	06/07/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S- 5 1' (H901991-10)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	2.22	111	2.00	7.52	
Toluene*	<0.050	0.050	06/07/2019	ND	1.98	98.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.91	95.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.71	95.2	6.00	5.36	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/07/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2019	ND	245	123	200	3.42	
DRO >C10-C28*	<10.0	10.0	06/07/2019	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	06/07/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Notes and Definitions

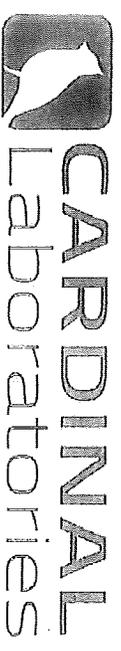
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon LPE</u>		P.O. #: <u>700794293.01</u>	
Project Manager: <u>Chris Jones</u>		Company: <u>Talon LPE</u>	
Address: <u>408 W Texas Ave</u>		Address: <u>David Adkins</u>	
City: <u>Artesia</u>		City: _____	
State: <u>NM</u> Zip: <u>88210</u>		State: _____ Zip: _____	
Phone #: <u>575-746-8768</u> Fax #: _____		Phone #: _____ Fax #: _____	
Project #: <u>700794293.01</u> Project Owner: <u>Devon</u>		Project Name: <u>Barton Flat Deep Unit 43</u>	
Project Location: <u>Eddy County</u>		Sampler Name: <u>Brandon Sinclair</u>	

Lab I.D.	Sample I.D.	(G)RAB OR (G)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	TPH EXT	BTEX	Total Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
H901991	1	5-1	0'							6/6/19	0930	✓	✓	✓	
	2	5-1	1'								0935	✓	✓	✓	
	3	5-2	0'								0945	✓	✓	✓	
	4	5-2	1'								0950	✓	✓	✓	
	5	5-3	0'								0955	✓	✓	✓	
	6	5-3	1'								1005	✓	✓	✓	
	7	5-4	0'								1010	✓	✓	✓	
	8	5-4	1'								1015	✓	✓	✓	
	9	5-5	0'								1030	✓	✓	✓	
	10	5-5	1'								1035	✓	✓	✓	

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Relinquished By: <u>R & A</u>	Date: <u>7/1/19</u>	Received By: <u>David Adkins</u>	Date: <u>7/1/19</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>5.40/#97</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	CHECKED BY: <u>[Signature]</u>	REMARKS: <u>Rush</u>



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 15, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BURTON FLAT DEEP UNIT #43

Enclosed are the results of analyses for samples received by the laboratory on 08/14/19 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 1 0-1' (H902788-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 1 2' (H902788-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 1 3' (H902788-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/14/2019 Sampling Date: 08/08/2019
Reported: 08/15/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: B- 1 4' (H902788-04)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 1 5' (H902788-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 99.5 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/14/2019 Sampling Date: 08/08/2019
Reported: 08/15/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: B- 1 6' (H902788-06)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 1 7' (H902788-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	10.4	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 0-1' (H902788-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	228	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	53.4	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 2' (H902788-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 98.1 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 3' (H902788-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 4' (H902788-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	08/15/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	299	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	86.3	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 5' (H902788-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 6' (H902788-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.89	94.5	2.00	9.42		
Toluene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	8.05		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.03	101	2.00	6.64		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.19	103	6.00	6.23		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 2 7' (H902788-14)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.97	98.5	2.00	6.96		
Toluene*	<0.050	0.050	08/15/2019	ND	2.13	107	2.00	9.43		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.07	101	6.00	5.65		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	11.2	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 3 0-1' (H902788-15)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.97	98.5	2.00	6.96		
Toluene*	<0.050	0.050	08/15/2019	ND	2.13	107	2.00	9.43		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.07	101	6.00	5.65		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	106	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	16.1	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 3 2' (H902788-16)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.97	98.5	2.00	6.96		
Toluene*	<0.050	0.050	08/15/2019	ND	2.13	107	2.00	9.43		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.07	101	6.00	5.65		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/14/2019 Sampling Date: 08/08/2019
Reported: 08/15/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: B- 3 3' (H902788-17)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PII) 97.9 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

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Signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/14/2019 Sampling Date: 08/08/2019
Reported: 08/15/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: B- 3 4' (H902788-18)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 97.4% 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500Cl-B, 192, 16.0, 08/15/2019, ND, 448, 112, 400, 7.41.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 90.4% 41-142

Surrogate: 1-Chlorooctadecane 94.0% 37.6-147

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 3 5' (H902788-19)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2019	ND	1.97	98.5	2.00	6.96	
Toluene*	<0.050	0.050	08/15/2019	ND	2.13	107	2.00	9.43	
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.07	101	6.00	5.65	
Total BTEX	<0.300	0.300	08/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2019	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88	
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/14/2019	Sampling Date:	08/08/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: B- 3 6' (H902788-20)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2019	ND	1.97	98.5	2.00	6.96		
Toluene*	<0.050	0.050	08/15/2019	ND	2.13	107	2.00	9.43		
Ethylbenzene*	<0.050	0.050	08/15/2019	ND	2.02	101	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/15/2019	ND	6.07	101	6.00	5.65		
Total BTEX	<0.300	0.300	08/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/15/2019	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/15/2019	ND	215	108	200	2.88		
DRO >C10-C28*	<10.0	10.0	08/15/2019	ND	214	107	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	08/15/2019	ND						

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.7 % 37.6-147

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: **Talon IPE**
 Project Manager: **Chris Jones**
 Address: **408 W Texas Ave**
 City: **Astoria** State: **NM** Zip: **88210**
 Phone #: **575-746-8768** Fax #: _____
 Project #: **700794-293.01** Project Owner: **Devon**
 Project Name: **Burton Flat Deep 43**
 Project Location: **Eddy County**
 Sampler Name: **Brandon Sinclair**
 For Lab Use Only: _____

P.O. #: **700794-293.01**
 Company: **Talon IPE**
 Attn: **David Adkins**
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.			
1902788		G									8/8/19	1400	TPH EXT
11	B-2 4'											1402	BTEX
12	B-2 5'											1404	Chlorides
13	B-2 6'											1406	
14	B-2 7'											1430	
15	B-3 0-1'											1432	
16	B-3 2'											1434	
17	B-3 3'											1440	
18	B-3 4'											1442	
19	B-3 5'											1445	
20	B-3 1'												

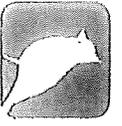
PLEASE NOTE: Sampling and analysis of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) is limited to the amount paid by the client for the analysis. An order indicating hours for refrigeration shall be received within 30 days after completion of the applicable analysis. In no event shall Cardinal be held responsible for analysis of VOCs and SVOCs if the sample is not analyzed within the time frame specified. The analysis of VOCs and SVOCs shall be based upon any of the above listed methods or other methods approved by the client. No substitutions.

Relinquished By: **Chris Jones** Date: **8/14/19** Time: **11:52**
 Received By: **Brandon Sinclair** Date: **8/14/19** Time: **13:00**
 Delivered By: **Brandon Sinclair** Date: **8/14/19** Time: **13:12**
 Sample Condition: Yes No
 Cool Inpack: Yes No
 Other: **Preserved 3.5** Yes No

Phone Result: Yes No
 Add'l Phone #: _____
 Fax Result: Yes No
 Add'l Fax #: _____

REMARKS: **Push**

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Talon LPE	P.O. #: 700794.293.01	ANALYSIS REQUEST
Project Manager: Chris Jones	Company: Talon LPE	
Address: 408 W Texas Ave	Attn: David Adkins	
City: Artesia State: NM Zip: 88210	Address:	
Phone #: 575-746-8768 Fax #:	City:	
Project #: 700794.293.01 Project Owner: Devon	State: Zip:	
Project Name: Burton Flat Deep 43	Phone #:	
Project Location: Eddy County	Fax #:	
Sampler Name: Brandon Sinclair		
FOR LAB USE ONLY		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH EXT	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
H902788															
1	B-1 0-1'	G									8/5/19	1320			
2	B-1 2'											1322			
3	B-1 3'											1324			
4	B-1 4'											1329			
5	B-1 5'											1331			
6	B-1 6'											1333			
7	B-1 7'											1335			
8	B-2 0-1'											1350			
9	B-2 2'											1352			
10	B-2 3'											1354			

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Relinquished By: R. Sin	Date: 8/14/19	Time: 11:50	Received By: Brandon Olatun	Date: 8/14/19	Time: 3:00	Received By: Paulina Alvarado
Delivered By: Brandon Olatun	Time: 3:12	Received By: Paulina Alvarado	Time: 3:52	Received By: Rush	Time: 3:52	Received By: Rush
Sampler - UPS - Bus - Other: Completed 3.52	Sample Condition: Yes	Cool Intact: Yes	Checked By: (Initials)	Checked By: (Initials)	Checked By: (Initials)	Checked By: (Initials)

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CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

811/11/20

ANALYSIS REQUEST

Company Name: **Talon LPE** P.O. #: **700794.293.01**
 Project Manager: **Chris Jones** Company: **Talon LPE**
 Address: **408 W Texas Ave** Attn: **David Adkins**
 City: **Astoria** State: **NM** Zip: **88210**
 Phone #: **575-746-8768** Fax #: _____
 Project #: **700794.293.01** Project Owner: **Devon**
 Project Name: **Burton Flat Deep 43** City: _____
 Project Location: **Eddy County** State: _____ Zip: _____
 Sampler Name: **Brandon Sinclair** Phone #: _____
 For Lab Use Only: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			
11902788		G									8/8/19	1400	TPH EXT
	B-2 4'											1402	BTEX
	B-2 5'											1404	Chlorides
	B-2 6'											1406	
	B-2 7'											1430	
	B-3 0-1'											1432	
	B-3 2'											1434	
	B-3 3'											1440	
	B-3 4'											1442	
	B-3 5'											1445	
	B-3 6'												

PLEASE NOTE: Liability and Ownership: Scientific liability shall remain the client's responsibility for any chain of custody samples in containers or vials, shall be limited to the amount paid by the client for the analysis. All other: including those for reagents and all other materials shall be the client's responsibility. Samples must be received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for loss of or damage to samples, including without limitation, because of negligence, loss of use, or loss of sample returned by client. No substitution, dilution or otherwise shall be made without the written consent of the client. The client shall be responsible for the safe return of the samples and containers to the client.

Relinquished By: **Brandon Sinclair** Date: **8/14/19** Time: **7:52** Received By: **Brandon O'Leary**
 Requisitioned By: _____ Date: _____ Time: _____
 Delivered By: **Brandon O'Leary** Date: **8/14/19** Time: **13:00**
 Sample - UPS - Bus - Other: **Powercell 3.5i** Sample Condition: **COOL** Yes No
 Inhibitor: **NO** Yes No
 CHECKED BY: **Brandon O'Leary** (Initials)
 PHONE RESULTS: Yes No ADD'l PHONE #: _____
 FAX RESULTS: Yes No ADD'l FAX #: _____

Push

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 19, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BURTON FLAT DEEP UNIT #43

Enclosed are the results of analyses for samples received by the laboratory on 09/18/19 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: WEST EXCAVATION BOTTOM COMP (H903226-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	35.1	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: WEST EXCAVATION W SIDEWALL COMP (H903226-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 93.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: WEST EXCAVATION S SIDEWALL COMP (H903226-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 94.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: WEST EXCAVATION N SIDEWALL COMP (H903226-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2	
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03	
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226	
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161	
Total BTEX	<0.300	0.300	09/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SOUTH EXCAVATION BOTTOM COMP (H903226-05)

BTEX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2	
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03	
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226	GC-NC
Total Xylenes*	0.532	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161	
Total BTEX	0.532	0.300	09/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 140 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	84.6	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	499	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	20.2	10.0	09/19/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SOUTH EXCAVATION S SIDEWALL COMP (H903226-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2	
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03	
Ethylbenzene*	0.106	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226	
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161	
Total BTEX	<0.300	0.300	09/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	187	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	13.1	10.0	09/19/2019	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/18/2019 Sampling Date: 09/18/2019
Reported: 09/19/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Jodi Henson
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: SOUTH EXCAVATION E SIDEWALL COMP (H903226-07)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 73.3-129

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride 512, 16.0, 09/19/2019, ND, 432, 108, 400, 0.00.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SOUTH EXCAVATION W SIDEWALL COMP (H903226-08)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: EAST EXCAVATION BOTTOM COMP (H903226-09)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	0.152	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	25.6	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	157	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	15.5	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 99.5 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: EAST EXCAVATION N SIDEWALL COMP (H903226-10)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/18/2019	Sampling Date:	09/18/2019
Reported:	09/19/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: EAST EXCAVATION S SIDEWALL COMP (H903226-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2019	ND	1.60	80.2	2.00	10.2		
Toluene*	<0.050	0.050	09/19/2019	ND	1.61	80.6	2.00	3.03		
Ethylbenzene*	<0.050	0.050	09/19/2019	ND	1.54	77.0	2.00	0.226		
Total Xylenes*	<0.150	0.150	09/19/2019	ND	4.73	78.9	6.00	0.0161		
Total BTEX	<0.300	0.300	09/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	09/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22		
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56		
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND						

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/18/2019 Sampling Date: 09/18/2019
Reported: 09/19/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Jodi Henson
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: EAST EXCAVATION E SIDEWALL COMP (H903226-12)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 92.9 % 73.3-129

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride 640, 16.0, 09/19/2019, ND, 432, 108, 400, 0.00.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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Signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/18/2019 Sampling Date: 09/18/2019
Reported: 09/19/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Jodi Henson
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: EAST EXCAVATION W SIDEWALL COMP (H903226-13)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 94.8% 73.3-129

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride 304, 16.0, 09/19/2019, ND, 432, 108, 400, 0.00.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 93.4% 41-142

Surrogate: 1-Chlorooctadecane 98.7% 37.6-147

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Celestine Keene (signature)

Celestine D. Keene, Lab Director/Quality Manager



Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

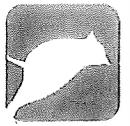
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BIFFITO

ANALYSIS REQUEST

Company Name: <u>Talon LPE</u>		P.O. #:			
Project Manager: <u>Chris Jones</u>		Company:	<u>Talon</u>		
Address: <u>408 W. Texas</u>		Attn:			
City: <u>Artesia</u>		Address:			
Phone #: <u>631-6977</u>		City:			
Fax #: <u></u>		State:	<u>NM</u>		
Project #: <u>700794-293-01</u>		Zip:	<u>88210</u>		
Project Name: <u>Burton Field Deep 43</u>		Project Owner:	<u>Devon Energy</u>		
Project Location: <u>Eddy, NM</u>		Phone #:			
Sampler Name: <u>CSover</u>		Fax #:			
FOR LAB USE ONLY					
Lab I.D. <u>H9D3226</u>	Sample I.D.	(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE			
		TIME			
1	West Excavation Bottom Comp.		9-18-19	7:30	Chlorides
2	West Excavation W. Sidewall Comp.			7:40	TPH Ext
3	West Excavation S. Sidewall Comp.			7:50	BTEX
4	West Excavation N. Sidewall Comp.			8:00	
5	South Excavation Bottom Comp.			8:10	
6	South Excavation S. Sidewall Comp.			8:20	
7	South Excavation E. Sidewall Comp.			8:30	
8	South Excavation W. Sidewall Comp.			8:40	

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Relinquished By: [Signature] Date: 9/18/19 Time: 16:20

Received By: [Signature] Date: 9/18/19 Time: 16:20

Delivered By: (Circle One) Corrected

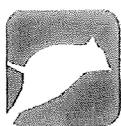
Sampler - UPS - Bus - Other: 3.12 3.52 #97

Sample Condition: Cool Intact Yes No

Checked By: [Signature]

Remarks: Rush 11

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BIL-10

ANALYSIS REQUEST

Company Name: Talen LPE		P.O. #:	
Project Manager: Chris Jones		Company:	Talen
Address: 408 W. Texas		Attn:	
City: Astoria		Address:	
State: NM Zip: 88210		City:	
Phone #: 631-6977 Fax #:		State:	
Project #: 200794.293.01 Project Owner: Devon Energy		Zip:	
Project Name: Burns Flat Deep 43		Phone #:	
Project Location: Eddy NM		Fax #:	
Sampler Name: CTORS			
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
		# CONTAINERS	
9 10 11 12 13 East Excavation Bottom Comp East Excavation N. Sidewall Comp East Excavation S. Sidewall Comp East Excavation E. Side wall Comp East Excavation W. Sidewall Comp		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	TIME
	9-18-11	500	Chlorides
		920	TPH EXT
		940	BTEX
		1000	
		1020	

PLEASE NOTE: Liability and Damages: Cardinal'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 analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable service. In no event shall Cardinal 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 and/or out of state. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: **9/18/11** Received By: *[Signature]* Date: **9/18/11**
Time: **10:30**

Delivered By: (Circle One) **3.1c** **4.1c** **1.1c** **2.1c**
Sampler - UPS - Bus - Other: **3.5c** **4.5c** **1.5c** **2.5c**
Sample Condition: Intact Cool Yes No

Checked By: *[Signature]*
REMARKS: **Rush !!**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 25, 2019

CHRIS JONES
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: BURTON FLAT DEEP UNIT #43

Enclosed are the results of analyses for samples received by the laboratory on 09/24/19 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/24/2019 Sampling Date: 09/24/2019
Reported: 09/25/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: SOUTH EXCAVATION BOTTOM COMP (H903286-01)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36 and surrogate data for 1-Chlorooctane and 1-Chlorooctadecane.

Sample ID: S. EXCAVATION S. SIDEWALL COMP (H903286-02)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36 and surrogate data for 1-Chlorooctane and 1-Chlorooctadecane.

Cardinal Laboratories *Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 client for analyses.

Celestine Keene (signature)

Celestine D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/24/2019 Sampling Date: 09/24/2019
Reported: 09/25/2019 Sampling Type: Soil
Project Name: BURTON FLAT DEEP UNIT #43 Sampling Condition: Cool & Intact
Project Number: 700794.293.01 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY COUNTY, NM

Sample ID: S. EXCAVATION E. SIDEWALL COMP (H903286-03)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36 and surrogate results for 1-Chlorooctane and 1-Chlorooctadecane.

Sample ID: EAST EXCAVATION BOTTOM COMP (H903286-04)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36 and surrogate results for 1-Chlorooctane and 1-Chlorooctadecane.

Sample ID: E. EXCAVATION N. SIDEWALL COMP (H903286-05)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride with result 688.

Cardinal Laboratories *Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/24/2019	Sampling Date:	09/24/2019
Reported:	09/25/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: E. EXCAVATION E. SIDEWALL COMP (H903286-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/25/2019	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 02, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BURTON FLAT DEEP UNIT #43

Enclosed are the results of analyses for samples received by the laboratory on 10/02/19 11:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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- Method EPA 524.2 Total Trihalomethanes (TTHM)
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This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	10/02/2019	Sampling Date:	09/27/2019
Reported:	10/02/2019	Sampling Type:	Soil
Project Name:	BURTON FLAT DEEP UNIT #43	Sampling Condition:	Cool & Intact
Project Number:	700794.293.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: EAST EXCAVATION N SIDEWALL COMP (H903361-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

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- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
 Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____