

talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan

Smalls Federal #001H
API # 30-025-43001
Talon Project # 700778.123.01

Prepared For:

COG Operating LLC
600 W Illinois Ave
Midland, TX 79701-4882

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, NM 88210

November 19, 2019

NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

Mr. Jim Amos
Bureau of Land Management
602 E. Green Street
Carlsbad, NM 88220

Mr. Ryan Mann
New Mexico State Land Office
2827 N. Dal Paso, Suite 117
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Work Plan**
Smalls Federal #001H
Lea County, New Mexico
API # 30-025-43001

COG Operating LLC (COG) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

Smalls Federal #001H is located approximately thirty-three (33) miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter J, Section 09, Township 23 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.317139 North and -103.472853 West. A site plan 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 Ratliff-Wink fine sandy loams. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont deposits. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 200-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth.

Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), 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.

Approximate Depth to Groundwater		200 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

This release did not occur within any of these areas and the depth to groundwater exceeds 100-feet BGS. Based upon the analytical data collected for this subsurface investigation, the impacts from this release are below NMOCD remediation closure criteria. However, analytical data indicates chloride concentrations in excess of 600 mg/kg. As such, the upper 4-feet of this area will be restored to levels set forth in Table 1, 19.15.29 NMAC closure criteria. Therefore the reclamation closure criteria for this site will be as follows:

Table I Closure Criteria for Soils Impacted by a Release			
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	Chloride	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 9, 2019, twenty (20) barrels (bbls) of produced water were released from a hole in the flow line. Fifteen (15) bbls were recovered using a vacuum truck. The initial C-141 is attached in [Appendix III](#). The flow path extends approximately 750 feet in length by 4-8 feet wide and flows through a bar ditch adjacent to a county maintained roadway. The impacted area is illustrated on the attached site plans ([Appendix I](#)).

Site Assessment

On June 14, 2019, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix IV](#).

June 14, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
BG-1	0-1	ND	ND	ND	ND	ND	0	ND
BG-2	0-1	ND	ND	ND	ND	ND	0	80
BG-3	0-1	ND	ND	ND	ND	ND	0	ND
S-1	0	ND	ND	ND	ND	ND	0	ND
S-2	0	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	1880
	2	ND	ND	ND	ND	ND	0	32
	3	ND	ND	ND	ND	ND	0	32
	4	ND	ND	ND	ND	ND	0	32
S-3	0	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
S-4	0	ND	ND	ND	ND	ND	0	7600
	1	ND	ND	ND	ND	ND	0	4000
	2	ND	ND	ND	ND	ND	0	4000
	3	ND	ND	ND	ND	ND	0	3360
	4	ND	ND	ND	ND	ND	0	384
S-5	0	ND	ND	ND	ND	ND	0	4400
S-6	0	ND	ND	ND	ND	ND	0	64
S-7	0	ND	ND	ND	ND	ND	0	3040
	1	ND	ND	ND	ND	ND	0	2280
	2	ND	ND	ND	ND	ND	0	3760
S-8	0	ND	ND	ND	ND	ND	0	2600
S-9	0	ND	ND	ND	ND	ND	0	192
S-10	0	ND	ND	ND	ND	ND	0	4400
S-11	0	ND	ND	ND	ND	ND	0	4240
S-12	0	ND	ND	ND	ND	ND	0	48
S-13	0	ND	ND	ND	ND	ND	0	3360
	1	ND	ND	ND	ND	ND	0	3600
	2	ND	ND	ND	ND	ND	0	3600
	3	ND	ND	ND	ND	ND	0	4000
	4	ND	ND	ND	ND	ND	0	496
S-14	0	ND	ND	ND	ND	ND	0	16
S-15	0	ND	ND	ND	ND	ND	0	ND

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-16	0	ND	ND	ND	ND	ND	0	4960
	1	ND	ND	ND	ND	ND	0	3520
	2	ND	ND	ND	ND	ND	0	5840
	3	ND	ND	ND	ND	ND	0	64
	4	ND	ND	ND	ND	ND	0	48
S-17	0	ND	ND	ND	ND	ND	0	2040
S-18	0	ND	ND	ND	ND	ND	0	32
S-19	0	ND	ND	ND	285	97.9	382.9	3600
	1	ND	ND	ND	ND	ND	0	3000
	2	ND	ND	ND	ND	ND	0	768
	3	ND	ND	ND	ND	ND	0	160
	4	ND	ND	ND	ND	ND	0	208
S-20	0	ND	ND	ND	ND	ND	0	400
S-21	0	ND	ND	ND	ND	ND	0	2520
S-22	0	ND	ND	ND	ND	ND	0	4880
	1	ND	ND	ND	ND	ND	0	2480
	2	ND	ND	ND	ND	ND	0	2400
	3	ND	ND	ND	ND	ND	0	3400
	4	ND	ND	ND	ND	ND	0	176
S-23	0	ND	ND	ND	ND	ND	0	48
S-24	0	ND	ND	ND	ND	ND	0	16
S-25	0	ND	ND	ND	ND	ND	0	416

ND= Not Detected

NT= Not Tested

On September 3, 2019, Talon personnel utilized a Geoprobe rig to further vertically delineate those points at which chloride concentrations were still found to be greater than 600 mg/kg. The analytical results from this sampling event can be found in the following data table:

September 3, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-5	1	NT	NT	NT	NT	NT	0	32
	2	NT	NT	NT	NT	NT	0	16
	3	NT	NT	NT	NT	NT	0	64
	4	NT	NT	NT	NT	NT	0	496
S-7	3	NT	NT	NT	NT	NT	0	2040
	4	NT	NT	NT	NT	NT	0	3840
	5	NT	NT	NT	NT	NT	0	304
	6	NT	NT	NT	NT	NT	0	32
S-8	1	NT	NT	NT	NT	NT	0	64
	2	NT	NT	NT	NT	NT	0	32
	3	NT	NT	NT	NT	NT	0	32
	4	NT	NT	NT	NT	NT	0	208
	5	NT	NT	NT	NT	NT	0	64
S-10	2	NT	NT	NT	NT	NT	0	1580
	3	NT	NT	NT	NT	NT	0	1330
	4	NT	NT	NT	NT	NT	0	32
	5	NT	NT	NT	NT	NT	0	288
S-17	1	NT	NT	NT	NT	NT	0	176
	2	NT	NT	NT	NT	NT	0	592
	3	NT	NT	NT	NT	NT	0	1260
	4	NT	NT	NT	NT	NT	0	752
	5	NT	NT	NT	NT	NT	0	128
S-21	1	NT	NT	NT	NT	NT	0	16
	2	NT	NT	NT	NT	NT	0	ND
	3	NT	NT	NT	NT	NT	0	32
	4	NT	NT	NT	NT	NT	0	32
	5	NT	NT	NT	NT	NT	0	528
	7	NT	NT	NT	NT	NT	0	1710
	9	NT	NT	NT	NT	NT	0	2800
	11	NT	NT	NT	NT	NT	0	3240
	13	NT	NT	NT	NT	NT	0	336
	15	NT	NT	NT	NT	NT	0	16

A final sampling event was carried out on November 3, 2019, to confirm the horizontal boundaries of the proposed excavation. The analytical results are summarized below:

November 12, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-26	0-1	NT	NT	NT	NT	NT	0	16
	2	NT	NT	NT	NT	NT	0	16
	3	NT	NT	NT	NT	NT	0	16
S-27	0-1	NT	NT	NT	NT	NT	0	16
S-28	0-1	NT	NT	NT	NT	NT	0	ND
S-29	0-1	NT	NT	NT	NT	NT	0	16
S-29	2	NT	NT	NT	NT	NT	0	ND

ND= Not Detected

NT= Not Tested

Proposed Remedial Actions

- Traffic control measures (signs, barrels, cones and flagmen) will be utilized to ensure the safety of field personnel. Remediation activities will be carried out with diligence and extreme care due to safety concerns while excavating near a roadway.
- The impacted area near sample location S-2 at the south end of the flow path will be excavated to a depth of 2.0-feet BGS. Proposed excavation area maps are attached in [Appendix I](#).
- The areas in the vicinity of sample points S-16 and S-19 will be excavated to 3.0-feet BGS.
- The areas near sample points S-4, S-7, S-10, S-11, S-13, S-17 and S-22 will be excavated to 4.0-feet BGS.
- Soil samples were collected approximately every 200 square feet and the impacted area is vertically delineated to below 600 mg/kg. Due to safety concerns we recommend that no final laboratory confirmation sampling be required. We propose to backfill each day based upon the results of our field chloride titrations to minimize the amount of time personnel are exposed to nearby traffic and avoid potential overnight traffic hazards of an open excavation.
- The excavated areas will be backfilled either with new caliche or topsoil dependent upon which material was removed. Once the backfilling activities are complete the work area will be machine compacted and contoured to match the surrounding location.
- All of the excavated material (approximately 880 yards) will be hauled to a NMOCD approved solid waste disposal facility.
- The work area will be seeded with State Sandy Loam (SL) seed mixture at the prescribed rate.

Closure

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



Brandon Sinclair
Environmental Scientist



David J. Adkins
District Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Map
- Appendix III Initial C-141
- Appendix IV Laboratory Data



APPENDIX I

SITE MAPS

Smalls Federal #001H

COG Operating LLC
Lea County, NM
30-025-43001
Locator Map

Carlsbad

285

62

Smalls Fed 1H

Hobbs

115

Google Earth

© 2018 Google

5719b-2105800 Copernicus



44-05-20.3-0002621H Q20 by pacapac

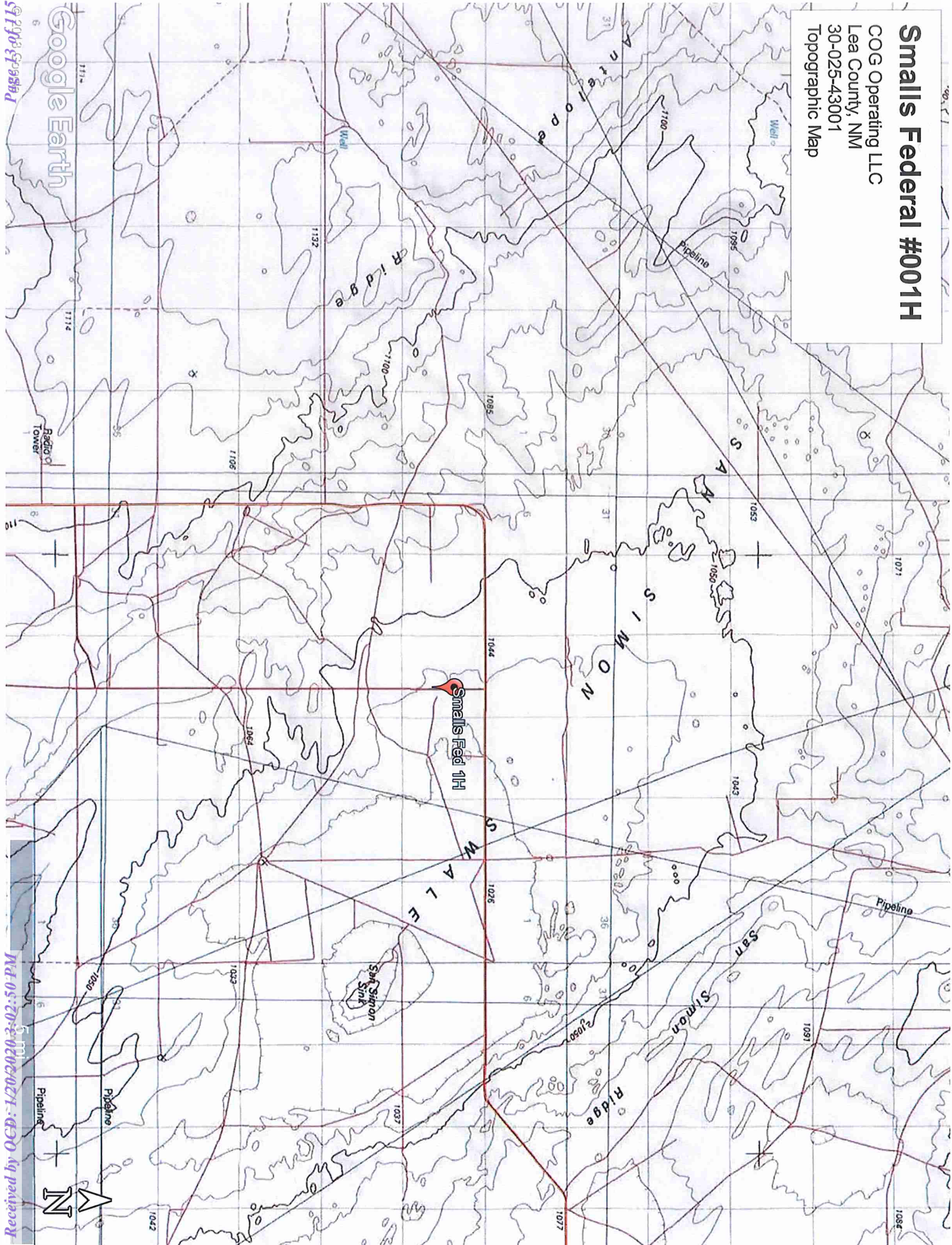
Smalls Federal #001H

COG Operating LLC

Lea County, NM

30-025-43001

Topographic Map



Smalls Federal #001H

COG Operating LLC
Lea County, NM
30-025-43001
Karst Map

Legend

	High
	Low
	Medium

Smalls Fed 1H

Google Earth

STP 610-10-0001 Copernicus



PM 05:20:30 06/20/21 10 mi 050 by paupere

COG Operating LLC
Lea County, NM
30-025-43001
Site Overview Map



COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #1

COG Operating LLC

Lea County, NM

30-025-43001

Proposed Excavation Map #1



2' Excavation

3' Excavation

4' Excavation

- Soil Sample

Soil Sample

4' Excavation

3' Excavation

2' Excavation

Page 16 of 115

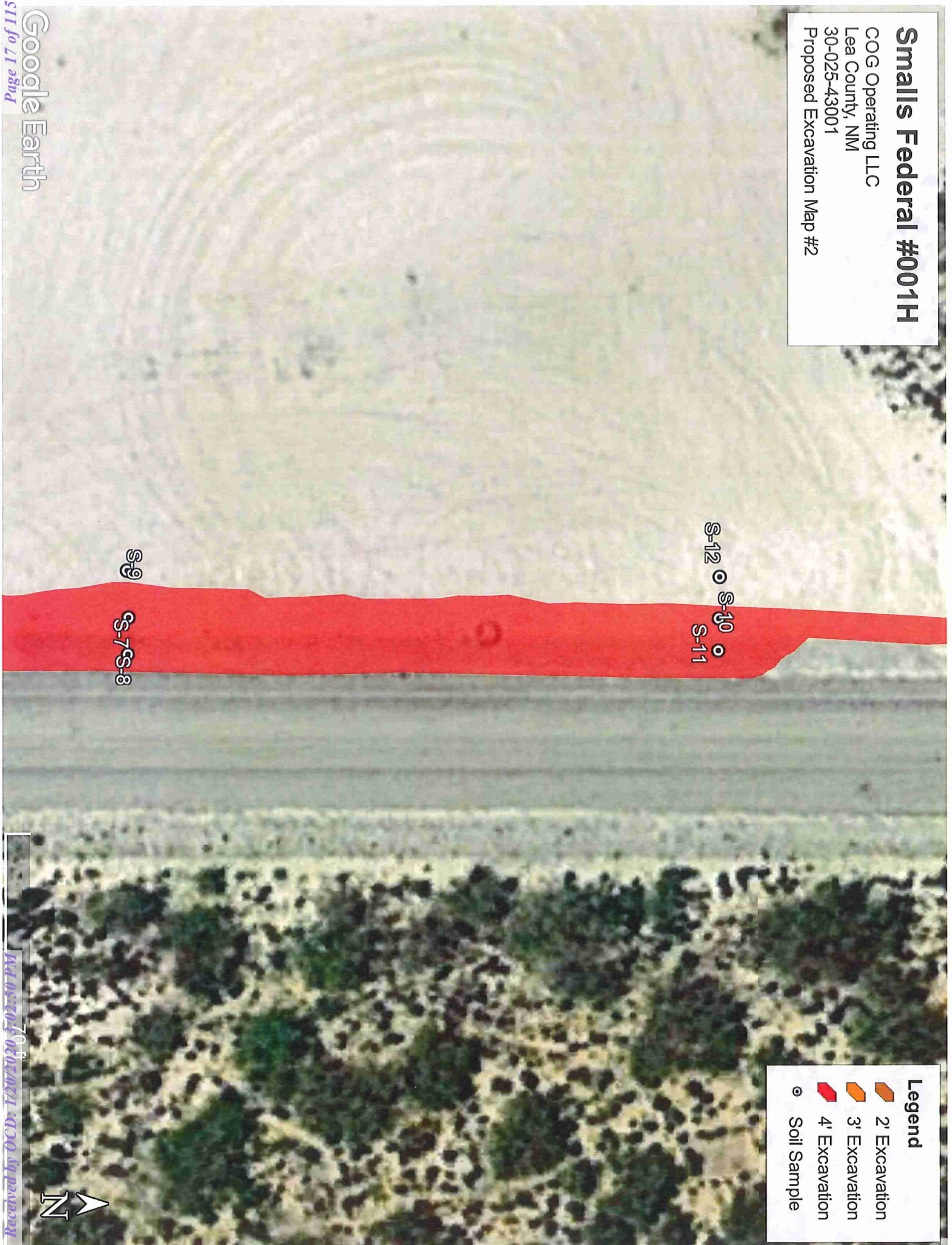
Received by OCD: 1/20/2020 3:02:50 PM



Smalls Federal #001H
COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #2

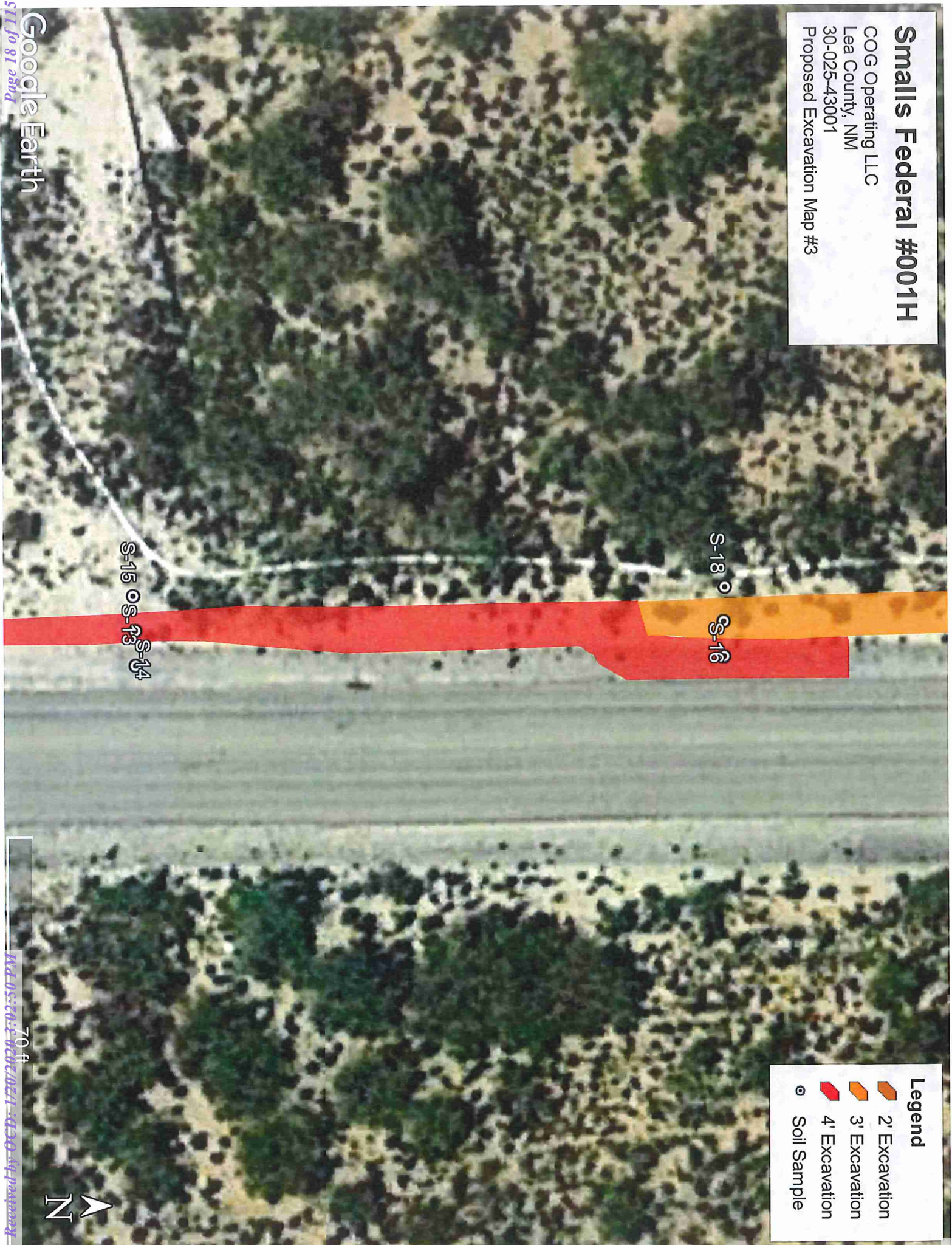
Legend

- 2' Excavation
- 3' Excavation
- 4' Excavation
- Soil Sample



Smalls Federal #001H

COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #3



Legend

- 2' Excavation
- 3' Excavation
- 4' Excavation
- Soil Sample

COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #4



Google Earth

Page 19 of 115

70 ft

Received by OGD: 1/20/2020 3:02:50 PM





APPENDIX II

SOIL SURVEY

GROUNDWATER DATA

FEMA FLOOD MAP

Lea County, New Mexico

MN—Ratliff-Wink fine sandy loams

Map Unit Setting

National map unit symbol: dmqf

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Ratliff and similar soils: 45 percent

Wink and similar soils: 40 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ratliff

Setting

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 4 inches: fine sandy loam

Bw - 4 to 22 inches: clay loam

Bk - 22 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 50 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 8.1 inches)

Interpretive groups*Land capability classification (irrigated): 4e**Land capability classification (nonirrigated): 6c**Hydrologic Soil Group: B**Ecological site: Loamy (R042XC007NM)**Hydric soil rating: No***Description of Wink****Setting***Landform: Plains**Landform position (three-dimensional): Dip**Down-slope shape: Convex**Across-slope shape: Convex**Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock***Typical profile***A - 0 to 12 inches: fine sandy loam**Bk - 12 to 23 inches: sandy loam**BCK - 23 to 60 inches: 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: 30 percent**Gypsum, maximum in profile: 1 percent**Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)**Sodium adsorption ratio, maximum in profile: 2.0**Available water storage in profile: Low (about 4.7 inches)***Interpretive groups***Land capability classification (irrigated): None specified**Land capability classification (nonirrigated): 7e**Hydrologic Soil Group: A**Ecological site: Sandy (R042XC004NM)**Hydric soil rating: No***Minor Components****Kermi***Percent of map unit: 6 percent**Ecological site: Sandhills (R042XC022NM)**Hydric soil rating: No*

Map Unit Description: Ratliff-Wink fine sandy loams---Lea County, New Mexico

Maljamar

Percent of map unit: 5 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Palomas

Percent of map unit: 4 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 16, Sep 15, 2019



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	Code	POD Sub-basin	County	Q Q Q						X	Y	Distance	DepthWell	DepthWater	Water Column	
				64	16	4	Sec	Tws	Rng							
CP 01730 POD1		CP	LE	2	2	1	16	23S	34E	643549	3575824		815	594	200	394
CP 01502 POD2		CP	LE	4	3	3	05	23S	34E	642074	3577676		1989	680	300	380
CP 00556 POD1		CP	LE	4	4	3	08	23S	34E	641762	3576206		2034	497	255	242

Average Depth to Water: 251 feet
Minimum Depth: 200 feet
Maximum Depth: 300 feet

Record Count:3

UTMNAD83 Radius Search (in meters):

Easting (X): 643755.85

Northing (Y): 3576613.36

Radius: 2500

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.

9/30/19 12:22 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

National Flood Hazard Layer FIRMette



32°19'16.90"N



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

32°18'46.50"N

Legend

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

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, AE9 With BFE or Depth Zone AE, AO, AH, VE, AP 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)

OTHER AREAS	Area of Minimal Flood Hazard (Zone X)
GENERAL STRUCTURES	Effective LOMRS
	Area of Undetermined Flood Hazard (Zone X)
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES	20.2 17.5 17.5 Base Flood Elevation (BFE)
	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 **9/30/2019 at 2:31:40 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 unmapped areas cannot be used for regulatory purposes.

Zone D

Designation on National Flood Insurance Program maps used for areas where there are possible, but undetermined, flood hazards. In areas designated as Zone D, no analysis of flood hazards has been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available. The flood insurance rates for properties in Zone D are commensurate with the uncertainty of the flood risk.

Zone V

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone VE

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone B, C, and X

Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No Base Flood Elevations or depths are shown within this zone.



APPENDIX III

INITIAL C-141

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	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.31665 Longitude -103.47247
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Smalls Federal #001H	Site Type	Tank Battery
Date Release Discovered	June 9, 2019	API# (if applicable)	

Unit Letter	Section	Township	Range	County
J	09	23S	34E	Lea

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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

The release was caused by a hole in the flowline. The flowline is being repaired.
The release was in the pasture, in the bar ditch and on the pad. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

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 checked="" 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 checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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: <u>DeAnn Grant</u>	Title: <u>HSE Administrative Assistant</u>
Signature: <u></u>	Date: <u>6/20/2019</u>
email: <u>agrant@concho.com</u>	Telephone: <u>(432) 253-4513</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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 ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

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: _____ Title: _____

Signature: Sheldon Nitan Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: Sheldon Nitan Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ 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: _____ Title: _____

Signature: Sheldon Hittman Date: _____

email: _____ Telephone: _____

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: _____ Title: _____



APPENDIX IV

LABORATORY DATA



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

June 21, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 06/17/19 13:55.

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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0-1' (H902080-01)

BTX 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	06/19/2019	ND	1.97	98.5	2.00	2.13	
Toluene*	<0.050	0.050	06/19/2019	ND	1.96	97.8	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.86	93.0	2.00	3.64	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.65	94.1	6.00	2.35	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	<16.0	16.0	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0-1' (H902080-02)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	80.0	16.0	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: BG - 3 0-1' (H902080-03)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 1 0' (H902080-04)

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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 2 0' (H902080-05)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	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	<16.0	16.0	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 2 1' (H902080-06)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	1880	16.0	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 2 2' (H902080-07)

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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEx	<0.300	0.300	06/19/2019	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	32.0	16.0	06/19/2019	ND	400	100	400	3.92	QR-03

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 2 3' (H902080-08)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	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	32.0	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
 Reported: 06/21/2019
 Project Name: SMALLS FED #001H
 Project Number: 700778.123.01
 Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S- 2 4' (H902080-09)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	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	32.0	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 3 0' (H902080-10)

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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEx	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 3 1' (H902080-11)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 4 0' (H902080-12)

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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEx	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	7600	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 4 1' (H902080-13)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	4000	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 4 2' (H902080-14)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 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	4000	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 4 3' (H902080-15)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	3360	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 4 4' (H902080-16)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	384	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.8 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 5 0' (H902080-17)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	4400	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 53 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 6 0' (H902080-18)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	64.0	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 54 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 7 0' (H902080-19)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	3040	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 7 1' (H902080-20)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 56 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 7 2' (H902080-21)

BTX 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	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	3760	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 8 0' (H902080-22)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	QR-03
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 9 0' (H902080-23)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	192	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 10 0' (H902080-24)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 60 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 11 0' (H902080-25)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/19/2019	ND	400	100	400	3.92	

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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 82.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 12 0' (H902080-26)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-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	06/19/2019	ND	400	100	400	3.92	

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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 13 0' (H902080-27)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	06/19/2019	ND	400	100	400	0.00	QM-07

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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 67.9 % 41-142

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 13 1' (H902080-28)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	3600	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 13 2' (H902080-29)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	3600	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 13 3' (H902080-30)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 66 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 13 4' (H902080-31)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	496	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 67 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 14 0' (H902080-32)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.3-129

Chloride, SM4500CI-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	06/19/2019	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	06/19/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 15 0' (H902080-33)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	<16.0	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 69 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 16 0' (H902080-34)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	4960	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 16 1' (H902080-35)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 16 2' (H902080-36)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	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	5840	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 16 3' (H902080-37)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 16 4' (H902080-38)

BTX 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	06/19/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	48.0	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 17 0' (H902080-39)

BTX 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	06/20/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/20/2019	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	2040	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 75 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 18 0' (H902080-40)

BTX 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	06/20/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14	
Total BTX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2019	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	06/18/2019	ND	230	115	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 76 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 19 0' (H902080-41)

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	06/20/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14	
Total BTEX	<0.300	0.300	06/20/2019	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	3600	16.0	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	285	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	97.9	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 19 1' (H902080-42)

BTX 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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 78 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 19 2' (H902080-43)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEx	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	768	16.0	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 19 3' (H902080-44)

BTX 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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 19 4' (H902080-45)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	208	16.0	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 81 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 20 0' (H902080-46)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	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	06/19/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 21 0' (H902080-47)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	2520	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 83 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 22 0' (H902080-48)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	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	4880	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 22 1' (H902080-49)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	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	2480	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 85 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 22 2' (H902080-50)

BTX 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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTX	<0.300	0.300	06/20/2019	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	2400	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 86 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 22 3' (H902080-51)

BTX 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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTX	<0.300	0.300	06/20/2019	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	3400	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 87 of 115
Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 22 4' (H902080-52)

BTX 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	06/20/2019	ND	2.13	107	2.00	3.01	
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36	
Total BTX	<0.300	0.300	06/20/2019	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	176	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 23 0' (H902080-53)

BTX 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	06/20/2019	ND	2.13	107	2.00	3.01	
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36	
Total BTX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-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	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 24 0' (H902080-54)

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	06/20/2019	ND	2.13	107	2.00	3.01	
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-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	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/17/2019
Reported: 06/21/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S- 25 0' (H902080-55)

BTX 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	06/20/2019	ND	2.13	107	2.00	3.01	
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36	
Total BTX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/20/2019	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

Page 91 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Notes and Definitions

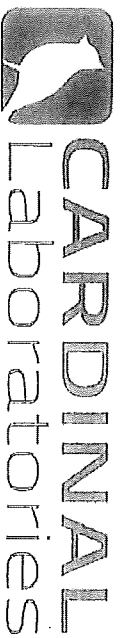
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon LPE</u>		P.O. #: <u>700778.123.01</u>		ANALYSIS REQUEST	
Project Manager: <u>David Adkins</u>		Company: <u>Talon LPE</u>			
Address: <u>408 W Texas Ave</u>		Attn: <u>David Adkins</u>			
City: <u>Artesia</u>		Address:			
Phone #: <u>575-746-8768</u>		City: <u>COG</u>			
Fax #: <u></u>		State: <u>COG</u>			
Project #: <u>700778.123.01</u>		Project Owner: <u>COG</u>			
Project Name: <u>Smalls Fed #0014</u>		State: <u>Shelton</u>			
Project Location: <u>Lea County</u>		Phone #: <u>Hitchcock</u>			
Sample Name: <u>Bradock Sinclair</u>		Fax #: <u></u>			
FOR LAB USE ONLY		MATRIX		PRESERV	
Lab I.D.		Sample I.D.			
H902080		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE		TIME	
1 BG-1 0-1'		6/19/19		1030	
2 BG-2 0-1'		1040		✓	
3 BG-3 0-1'		1050		✓	
4 S-1 0'		1100		✓	
5 S-2 0'		1105		✓	
6 S-2 1'		1110		✓	
7 S-2 2'		1115		✓	
8 S-2 3'		1120		✓	
9 S-2 4'		1125		✓	
10 S-3 0'		1135		✓	
				TPH EXT	
				Chlorides	
				BTEX	

PLEASE NOTE: Liability and Damages: Cardinal's liability and clients exclusive remedy for any claim arising whether stated in contract or not, 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 subcontractors, affiliates or successors arising out of or related to 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: David Adkins Date: 6-17-19 Time: 13:55

Received By: Blair Adkins Date: Time:

Delivered By: (Circle One) UPS Sample Condition Cool Intact Yes CHECKED BY: (Initials) DA

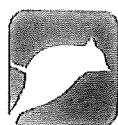
Sampler - UPS - Bus - Other: 13.9% #47

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

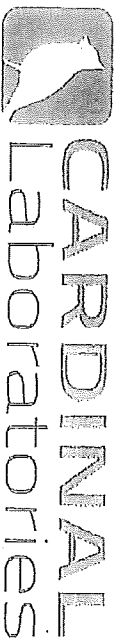


CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LPE		P.O. #: 700778/12301	
Project Manager: David Adkins		Company: Talon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia		Address: BS 6117	
Phone #: 575-746-8768		City: COG	
Project #: 700778.123.01		State: zip: sheldon	
Project Name: Smalls Fed #001H		Phone #: Hitchcock	
Project Location: Lea County		Fax #:	
Sampler Name: Brenden Sinclair			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H902080												
21	5-7 2'									6/14/97	1245	TPH EXT
22	5-8 0'										1250	Chlorides
23	5-9 0'										1255	BTEX
24	5-10 0'										1300	
25	5-11 0'										1310	
26	5-12 0'										1320	
27	5-13 0'										1330	
28	5-13 1'										1335	
29	5-13 2'										1340	
30	5-13 3'										1345	

PLEASE NOTE: Liability and Damages. Cardinal Laboratories is not responsible for any claims arising from the use of the information provided in this report. The information is provided for informational purposes only. It is not intended to be used as a basis for any legal action. The information is provided as is, without warranty. The information is provided for informational purposes only. It is not intended to be used as a basis for any legal action. The information is provided as is, without warranty.

Relinquished By: *[Signature]* Date: **6-17-97** Time: **13:55**

Received By: *[Signature]* Date: **6-17-97** Time: **13:55**

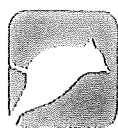
Delivered By: (Circle One) **UPS** **13.90#497** Sample Condition **Good** Checked By: *[Signature]*

Sampler - UPS - Bus - Other: **13.90#497** **Yes** **No** **Yes** **No**

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:



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. #: 700778-12301	
Project Manager: David Adkins		Company: Talon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia State: NM Zip: 87210		Address: BS 617	
Phone #: 575-746-8768 Fax #:		City: COG	
Project #: 700778-12301 Project Owner: COG		State: Zip:	
Project Name: Smalls Fed #0014		Phone #: Sheldon	
Project Location: Lea County		Fax #: Hitchcock	
Sampler Name: Brandon Sinclair			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H902080												
31	5-13 4'									6/14/97	1350	TPH EXT
32	5-14 0'										1400	Chlorides
33	5-15 0'										1415	BTEX
34	5-16 0'										1425	
35	5-16 1'										1430	
36	5-16 2'										1435	
37	5-16 3'										1440	
38	5-16 4'										1445	
39	5-17 0'										1500	
40	5-18 0'										1505	

PLEASE NOTE: Liability and coverage. Cardinal's liability and clients 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 30 days after completion of the applicable analysis. 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 arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated measures of damages.

Relinquished By: <i>[Signature]</i>	Date: 6-17-97	Received By: <i>[Signature]</i>	Date: 6-17-97
Time: 13:55		Time: 13:55	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials)
13.9°C #57		YD

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

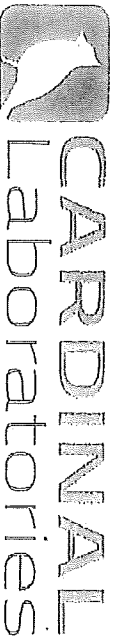
ANALYSIS REQUEST

Company Name: Talon LPE	P.O. #: 700778-12301
Project Manager: David Adkins	Company: Talon LPE
Address: 408 W Texas Ave	Attn: David Adkins
City: Artesia	Address: BS 6117
Phone #: 575-746-8768	City: CO6
State: NM Zip: 87210	State: CO6 Zip: 6117
Project #: 700778-12301	Project Owner: CO6
Project Name: Smalls Fed #0014	State: CO6 Zip: 6117
Project Location: Lea County	Phone #: Sheldon
Sampler Name: Bradley Sinclair	Fax #: Hitchcock

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		MATRIX					PRESERV.		DATE	TIME										
		# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :										
4902680	41	5-19	0'										6/14/87	1515	✓	TPH EXT						
	42	5-19	1'											1520	✓	Chlorides						
	43	5-19	2'											1525	✓	BTEx						
	44	5-19	3'											1530								
	45	5-19	4'											1535								
	46	5-20	0'											1545								
	47	5-21	0'											1550								
	48	5-22	0'											1555								
	49	5-22	1'											1605								
	50	5-22	2'											1610								

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' obligations are 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 licensees resulting out of or related to 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: <i>[Signature]</i>	Date: 6-17-19	Received By: <i>[Signature]</i>	Time: 13:55
Relinquished By: <i>[Signature]</i>	Date: 13:55	Received By: <i>[Signature]</i>	Time: 13:55
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: <i>[Signature]</i>	13:55 #97
	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		



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. #: 700778.12301	
Project Manager: David Adkins		Company: Talon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia	State: NM Zip: 878210	Address: BS 6/17	
Phone #: 575-746-6768	Fax #: 	City: COG	
Project #: 700778.123.01	Project Owner: COG	State: Zip: 	
Project Name: Smalls Fed #0014	Project Location: Lea County	Phone #: Sheldon	
Sampler Name: Brandon Sinclair	Fax #: Hitchcock		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
4902086		G								6/14/17	1625	TPH EXT
51	5-22 3'										1630	Chlorides
52	5-22 4'										1640	BTEX
53	5-23 0'										1650	
54	5-24 0'										1700	
55	5-25 0'											

PLEASE NOTE: Liability and Damages: Cardinal's liability and clients 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. In no event shall Cardinal be liable for consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance or non-performance of the analysis. This limitation shall apply to the entire chain of custody and analysis.

Relinquished By: **Brandon Sinclair** Date: **6/17/17** Received By: **Brandon Sinclair** Date: **6/17/17** Time: **13:55**

Relinquished By: **Brandon Sinclair** Date: **6/17/17** Received By: **Brandon Sinclair** Date: **6/17/17** Time: **13:55**

Delivered By: (Circle One) **UPS** - **Bus** - **Other**: **13:55 #97**

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ No

CHECKED BY: **TD**

REMARKS:

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



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

September 10, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 09/04/19 16:30.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 1' (H903064-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 5 2' (H903064-02)

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	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 5 3' (H903064-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 5 4' (H903064-04)

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	09/09/2019	ND	432	108	400	0.00	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/04/2019	Sampling Date:	09/03/2019
Reported:	09/10/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	Cool & Intact
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S - 7 3' (H903064-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 7 4' (H903064-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 7 5' (H903064-07)

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	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 7 6' (H903064-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 8 1' (H903064-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2019	ND	432	108	400	0.00	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/04/2019	Sampling Date:	09/03/2019
Reported:	09/10/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	Cool & Intact
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S - 8 2' (H903064-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 8 3' (H903064-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 8 4' (H903064-12)

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	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 8 5' (H903064-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 10 1' (H903064-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	09/09/2019	ND	432	108	400	0.00	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 102 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

Analytical Results For:

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

Received: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 10 2' (H903064-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 10 3' (H903064-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 10 4' (H903064-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 10 5' (H903064-18)

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	09/09/2019	ND	432	108	400	0.00	

Sample ID: S - 17 1' (H903064-19)

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	09/09/2019	ND	448	112	400	3.64	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 17 2' (H903064-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/09/2019	ND	448	112	400	3.64	

Sample ID: S - 17 3' (H903064-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	09/09/2019	ND	448	112	400	3.64	

Sample ID: S - 17 4' (H903064-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/09/2019	ND	448	112	400	3.64	

Sample ID: S - 17 5' (H903064-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2019	ND	448	112	400	3.64	

Sample ID: S - 21 1' (H903064-24)

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	09/09/2019	ND	448	112	400	3.64	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 21 2' (H903064-25)

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	09/09/2019	ND	448	112	400	3.64		

Sample ID: S - 21 3' (H903064-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2019	ND	448	112	400	3.64		

Sample ID: S - 21 4' (H903064-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2019	ND	448	112	400	3.64	

Sample ID: S - 21 5' (H903064-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/09/2019	ND	448	112	400	3.64		

Sample ID: S - 21 7' (H903064-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	09/09/2019	ND	448	112	400	3.64		

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 21 9' (H903064-30)

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2800	16.0	09/09/2019	ND	448	112	400	3.64			

Sample ID: S - 21 11' (H903064-31)

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	3240	16.0	09/09/2019	ND	448	112	400	3.64			

Sample ID: S - 21 13' (H903064-32)

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	336	16.0	09/09/2019	ND	448	112	400	3.64			

Sample ID: S - 21 15' (H903064-33)

Chloride, SM4500CI-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	09/09/2019	ND	448	112	400	3.64			

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Company Name: Talon LPE		P.O. #:	
Project Manager: David Adkins		Company: COG	
Address: 408 W Texas Ave		Attn: Sheldon Hitchcock	
City: Artesia	State: NM	Zip: 88210	Address: 2208 W Main St
Phone #: 575-746-8768	Fax #:	City: Artesia	State: NM
Project #: 700728.123.01	Project Owner: COG	Zip: 88210	Phone #:
Project Location: Lea County		Fax #:	
Sampler Name: Brandon Sinclair			

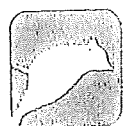
Lab I.D.	Sample I.D.	MATRIX						DATE	TIME	ANALYSIS REQUEST			
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL				SLUDGE	OTHER :	ACID/BASE:
H963064	1 S-S 1'	G				✓				9/3/9	115	✓	Chlorides
	2 S-S 2'										117		
	3 S-S 3'										119		
	4 S-S 4'										121		
	5 S-S 3'										1145		
	6 S-S 4'										1147		
	7 S-S 5'										1154		
	8 S-S 6'										1156		
	9 S-S 1'										1215		
	10 S-S 2'										1217		

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors shall not be or released from 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: 9-4-19	Received By: [Signature]	Time: 10:30
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One)	1.12	#97	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:			Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	[Signature] (Initials)
			No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	YES

REMARKS: NO RUSH CUSTOMER PER CUSTOMER



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: <u>Talos L.P.F.</u>		P.O. #:
Project Manager: <u>David Adkins</u>		Company: <u>COG</u>
Address: <u>408 W Texas Ave</u>		Attn: <u>Sheldon Hitchcock</u>
City: <u>Artesia</u>	State: <u>NM</u> Zip: <u>88210</u>	Address: <u>2208 W Main</u>
Phone #: <u>575-746-8268</u> Fax #:	Project Owner: <u>COG</u>	City: <u>Artesia</u>
Project #: <u>200228.123.01</u>	Project Name: <u>Smalls Federal #0014</u>	State: <u>NM</u> Zip: <u>88210</u>
Project Location: <u>Lea County</u>	Phone #:	Fax #:
Sampler Name: <u>Brandon Sineait</u>		

Lab I.D.	Sample I.D.	(G) GRAB OR (C) COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
11	5-8 3'																										
12	5-8 4'																										
13	5-8 5'																										
14	5-10 1'																										
15	5-10 2'																										
16	5-10 3'																										
17	5-10 4'																										
18	5-10 5'																										
19	5-17 1'																										
20	5-17 2'																										

PLEASE NOTE: Liability and density maximum remedy for any chain custody analysis must be determined within 30 days after completion of the applicable analysis. All chain custody analysis must be determined within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for indirect or consequential damages, including without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors, arising out of or resulting from the performance of services rendered by Cardinal, regardless of whether or not such damages are foreseeable.

Relinquished By: <u>R. Adkins</u>	Date: <u>12-30</u>	Time: <u>12:30</u>	Received By: <u>Sheldon Hitchcock</u>
Relinquished By: <u>R. Adkins</u>	Date: <u>12-30</u>	Time: <u>12:30</u>	Received By: <u>Sheldon Hitchcock</u>

Delivered By: (Circle One) <u>1.1c</u>	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: <u>Cardinal 1.5c</u>	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
	Yes <input type="checkbox"/> No <input type="checkbox"/>	

REMARKS: <u>Rush</u>

* 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. #:
Project Manager: David Adkins		Company: COG
Address: 408 W Texas Ave		Attn: Sheldon Hitchcock
City: Artesia	State: NM Zip: 88210	Address: 2208 W Main
Phone #: 575-746-8768 Fax #:	Project #: 700726.123.01	City: Artesia
Project Name: Smalls Federal #0014	Project Owner: COG	State: NM Zip: 88210
Project Location: Lea County	Phone #:	
Sample Name: Brandona Sinclair	Fax #:	

FOR LAB USE ONLY		MATRIX		PRESERV	SAMPLING
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
			GROUNDWATER		
			WASTEWATER		
			SOIL		
			OIL		
			SLUDGE		
			OTHER :		
			ACID/BASE:		
			ICE / COOL		
			OTHER :		
				DATE	TIME

1903064	5-17 3'	G			9/3/19	1329	✓	Chlorides
21	5-17 3'							
22	5-17 4'							
23	5-17 5'							
24	5-21 1'							
25	5-21 2'							
26	5-21 3'							
27	5-21 4'							
28	5-21 5'							
29	5-21 7'							
30	5-21 9'							

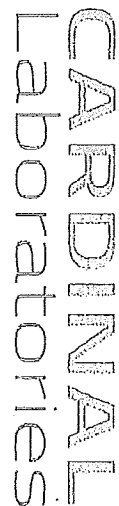
PLEASE NOTE: Liability and clients' liability and clients' exclusive remedy for any claim arising hereunder shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be secured within ninety (90) days after completion of the applicable analysis. In no event shall liability for incidents or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal, its subsidiaries, affiliates or successors, be based upon any of the above stated reasons or otherwise.

Relinquished By: Dr. Kirk	Date: 9-4-19	Received By: Monica Alaraz
Relinquished By: Dr. Kirk	Date: 9-4-19	Received By: Monica Alaraz

Delivered By: (Circle One) 1/1	Sample Condition	CHECKED BY: AB
Sampler - UPS - Bus - Other: Consolidated 150	<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

REMARKS:
Rash



101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 353-2476

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



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

November 14, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 11/13/19 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/13/2019
Reported: 11/14/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 11/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 26 0'-1' (H903861-01)

Chloride, SM4500CI-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	11/14/2019	ND	432	108	400	3.77	

Sample ID: S- 26 2' (H903861-02)

Chloride, SM4500CI-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	11/14/2019	ND	432	108	400	3.77	

Sample ID: S- 26 3' (H903861-03)

Chloride, SM4500CI-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	11/14/2019	ND	432	108	400	3.77	

Sample ID: S- 27 0'-1' (H903861-04)

Chloride, SM4500CI-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	11/14/2019	ND	432	108	400	3.77	

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	11/13/2019	Sampling Date:	11/12/2019
Reported:	11/14/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	Cool & Intact
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: S- 28 0'-1' (H903861-05)

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	11/14/2019	ND	432	108	400	3.77		

Sample ID: S- 29 0'-1' (H903861-06)

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	11/14/2019	ND	432	108	400	3.77		

Sample ID: S- 29 2' (H903861-07)

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	11/14/2019	ND	432	108	400	3.77		

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 114 of 115

Received by OCD: 1/20/2020 3:02:50 PM



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

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

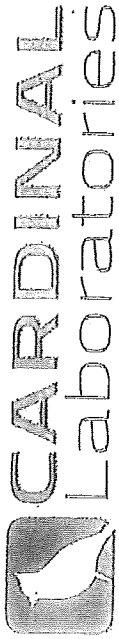
Cardinal Laboratories *=Accredited Analyte

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) 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 arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in cursive script, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 5



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BULK TO										ANALYSIS REQUEST									
Company Name: TALON LPE										P.O. #:									
Project Manager: DAVID ADKINS										Company: CONCHO									
Address: 408 W. TEXAS										Attn: IKE TAUREZ									
City: ARTESIA										State: NM Zip: 88210									
Phone #: 575-746-8768										Fax #:									
Project #: 100778, 123.01										Project Owner: CONCHO									
Project Location: LEA COUNTY										State: Zip:									
Sampler Name: MICHAEL COLLIER										Phone #: Fax #:									
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		# CONTAINERS		MATRIX		PRESERV		SAMPLING		DATE		TIME		TOTAL CHLORIDES			
4903861		1 S-26 0'-1'		1		GROUNDWATER		✓		✓		11-12-19		1:40pm		✓			
		2 S-26 2'		1		WASTEWATER								1:45pm					
		3 S-26 3'		1		OIL								1:50pm					
		4 S-27 0'-1'		1		SLUDGE								2:00pm					
		5 S-28 0'-1'		1		ACID/BASE								2:10pm					
		6 S-29 0'-1'		1		OTHER:								2:30pm					
		7 S-29 2'		1		ICE/COOL								2:35pm					
PLEASE NOTE: LAMINATE AND CONTAINER. CARDINAL'S LIABILITY AND CLIENTS' RESPONSIBILITY REMAINS 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 INCOME, OR LOSS OF PROFITS INCURRED BY CLIENT, ITS SUBSIDIARIES, AFFILIATES OR ASSOCIATES ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE OF SERVICES HEREUNDER BY CARDINAL. RESOLUTION OF ANY DISPUTE SHALL BE BASED UPON ANY OF THE ABOVE WRITTEN REASONS OR OTHERWISE.																			
Relinquished By: <i>nhl ccl</i>										Received By: <i>Michael Collier</i>									
Date: 11-13-19										Date: 11-13-19									
Time: 15:45										Time: 15:45									
Relinquished By:										Received By:									
Date:										Date:									
Time:										Time:									
Delivered By: (Circle One) 4.12										Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Sampler - UPS - Bus - Other: <i>Corrected 4.52</i>										CHECKED BY: (Initials) <i>AD</i>									
REMARKS: RUSH																			

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