



Soil Assessment and Remediation Work Plan

Chaparral 14 Federal Com #001 Eddy County, New Mexico API # 30-015-34038; 2RP-5607

Prepared For:

COG Operating LLC 600 West Illinois Ave Midland, TX 79701

Prepared By:

TALON/LPE 408 West Texas Avenue Artesia, NM 88210

April 13, 2020

Received by OCD: 4/15/2020 1:38:08 PM

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

Mr. Jim Amos Bureau of Land Management 600 E. Greene Street Carlsbad, NM 88220

Subject:

Soil Assessment and Remediation Work Plan

Chaparral 14 Federal Com #001 Eddy County, New Mexico API # 30-015-34038, 2RP-5607

Dear Mr. Bratcher and Mr. Amos,

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

Chaparral 14 Federal Com #001 is located approximately 35 miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter I, Section 14, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.65842 North and -103.83324 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 Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded. The referenced soil data is attached in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to lower Pleistocene in age and is comprised of piedmont alluvial deposits. Drainage courses in this area are typically dry.

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Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 102-feet below ground surface (BGS). The average depth to groundwater in the project vicinity is 192-feet BGS. See Appendix II for the referenced groundwater data.

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	102 Feet/BGS
☐Yes ⊠No	Within 300 feet of any continuously flowing war any other significant watercourse	tercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or play	ya lake
∐Yes ⊠No	Within 300 feet from an occupied permanent reschool, hospital, institution or church	esidence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spri Within incorporated municipal boundaries or w Municipal fresh water well field covered under ordinance adopted pursuant to Section 3-2703	ithin a defined a municipal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year floodplain	

The release did not occur in any of these areas and the depth to groundwater is greater than 100-feet BGS. Therefore, the closure criteria for this site are 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**					
>100 feet	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg					
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 July 17, 2019, twenty (20) barrels (bbls) of produced water were released when lightning struck a produced water tank, resulting in a fire. The release was contained within the unlined earthen berm. The initial C-141 is attached in Appendix III.

Site Assessment

On October 19, 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 direct push sampling rig (Geoprobe).

On December 4, 2019, Talon personnel mobilized an air rotary drilling rig to further vertically delineate sample location B-2 due to TPH and BTEX concentrations were found to be above NMOCD closure criteria. Results from our sampling events are presented on the following data table. A complete laboratory reports can be found in Appendix V.

Table 1: Soil Sample Analysis

Sample ID	Depth (ft.)	Date	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	DRO + GRO 10 mg/kg combined = 1000 mg/kg			2,500 mg/kg	20,000 mg/kg	
	0-1	10/9/2019	ND	ND	ND	ND	ND	-	208
	2	10/9/2019	ND	ND	ND	ND	ND	-	224
	3	10/9/2019	ND	ND	ND	ND	ND	-	208
	4	10/9/2019	0.34	ND	ND	ND	20.2	20.2	1460
B-1	0-1	12/4/2019	NT	NT	NT	NT	NT	-	1280
D-T	2	12/4/2019	NT	NT	NT	NT	NT	-	32
	4	12/4/2019	NT	NT	NT	NT	NT	-	32
	6	12/4/2019	NT	NT	NT	NT	NT	-	48
	8	12/4/2019	NT	NT	NT	NT	NT	-	32
	10	12/4/2019	NT	NT	NT	NT	NT	-	64
	0-1	10/9/2019	18.6	ND	1460	3330	454	5244	1200
	2	10/9/2019	19	ND	1910	2550	177	4637	2160
	3	10/9/2019	48.8	ND	1370	1520	54.9	2944.9	2720
	4	10/9/2019	99.5	ND	2610	3340	905	6855	1900
	5	10/9/2019	309	ND	6180	4370	238	10788.0	3080
	6	10/9/2019	320	ND	6490	4520	243	11253	1950
	7	10/9/2019	127	ND	3160	2710	162	6032	672
	8	12/4/2019	7	ND	260	925	42.5	1227.5	592
	10	12/4/2019	48.9	ND	950	1570	74.7	2594.7	1600
	12	12/4/2019	NT	NT	NT	NT	NT	-	NT
	15	12/4/2019	17	ND	736	1960	115	2811	NT
B-2	20	12/4/2019	98.7	ND	2560	3390	163	6113	NT
	25	12/4/2019	59.1	ND	1970	3620	130	5720	NT
	30	12/4/2019	60.8	ND	2190	2670	119	4979	NT
	40	12/4/2019	20.4	ND	805	1960	36.9	2801.9	NT
	50	12/4/2019	22.4	ND	615	1430	60.2	2105.2	NT
	60	12/4/2019	8.1	ND	329	1270	87.3	1686.3	NT
	70	12/4/2019	ND	ND	ND	34.5	ND	34.5	NT
	80	12/4/2019	ND	ND	ND	63.7	ND	63.7	NT
	90	12/4/2019	ND	ND	ND	84.4	ND	84.4	NT
-:	100	12/4/2019	ND	ND	ND	67.1	ND	67.1	NT
	110	12/4/2019	ND	ND	ND	ND	ND	-	NT
	120	12/4/2019	ND	ND	ND	ND	ND	-	NT

Sample ID	Depth (ft.)	Date	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	DRO + GRO combined = 1000 mg/kg			2,500 mg/kg	20,000 mg/kg	
	0-1	10/9/2019	ND	ND	ND	ND	16.9	16.9	1760
D 2	2	10/9/2019	ND	ND	ND	ND	ND	=	512
D-3	B-3 3	10/9/2019	ND	ND	ND	ND	ND	1	64
	4	10/9/2019	ND	ND	ND	100	238	338	656
	0-1	10/9/2019	0.805	ND	ND	54.2	51.4	105.6	272
D 4	2	10/9/2019	ND	ND	ND	ND	ND	-	96
B-4	3	10/9/2019	ND	ND	ND	ND	ND	-	176
	4	10/9/2019	0.347	ND	ND	56.3	36.6	92.9	128
	0-1	10/9/2019	ND	ND	ND	ND	ND	-	496
B-5	2	10/9/2019	ND	ND	ND	ND	ND	-	48
	3R	10/9/2019	ND	ND	ND	ND	ND	-	128

ND= Analyte Not Detected
NT= Analyte Not Tested
R=Refusal

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Proposed Remedial Actions

- The impacted surrounding boring location B-2 will be excavated to a depth of 10.0-feet BGS. PID readings will be utilized to guide the side walls of the excavation followed by confirmation soil sample analysis for Total Petroleum Hydrocarbons (TPH via EPA Method 8015M) and volatile organics (BTEX via EPA Method 8021B). Side wall excavations will continue vertically until NMOCD closure criteria has been met for these constituents.
- The excavation will then be backfilled with locally obtained, like material to a depth of 4.0-feet BGS. A 20-mil liner will then be installed, encapsulating the remaining impacted soil to prevent future vertical movement. The liner will be covered with 3.0-feet of locally obtained topsoil; the final foot below grade will be replaced with caliche.
- Once the backfilling activities are complete the work area will be machine compacted and contoured to match the surrounding location.
- All the excavated material will be transported to a NMOCD approved solid waste disposal facility.
- Approximately 231 yards of impacted material is estimated for removal.
 Remediation activities will be initiated within 15-days of regulatory approval to commence.
- A final closure report documenting the remedial actions generated and a Final C-141 will be provided to the NMOCD District II Office.

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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

Appendix III Boring Logs Appendix IV C-141's Appendix V Photographs

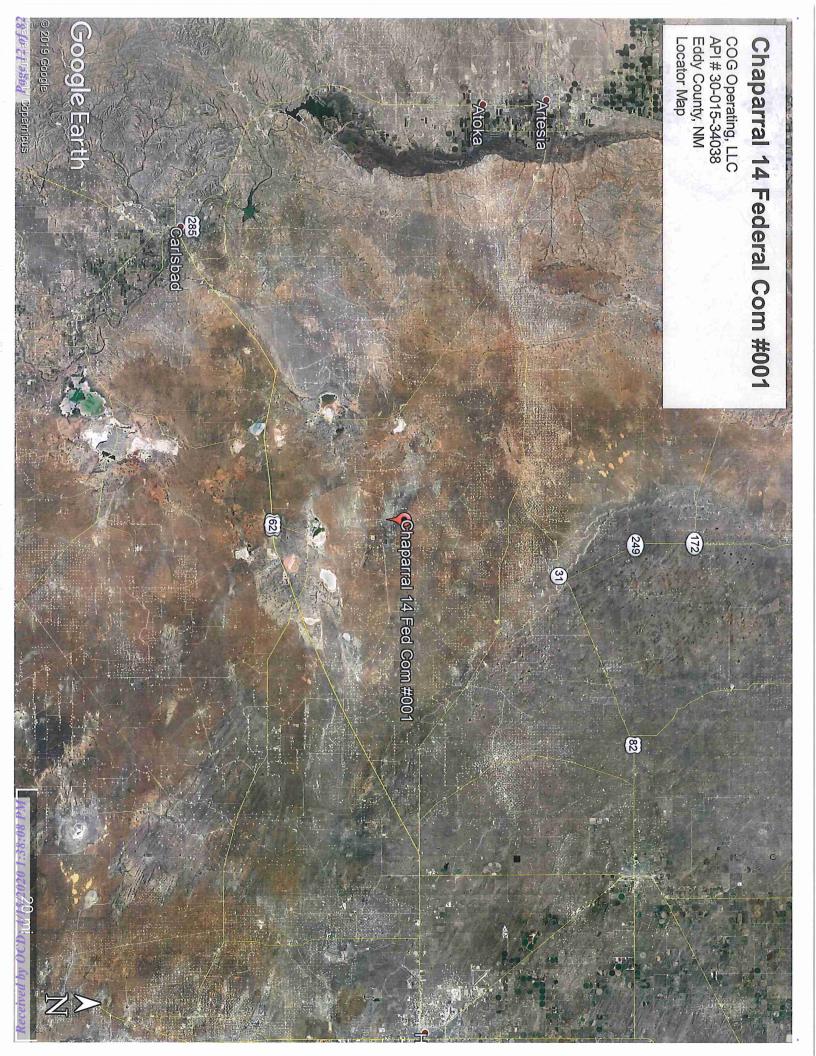
Appendix VI Laboratory Data

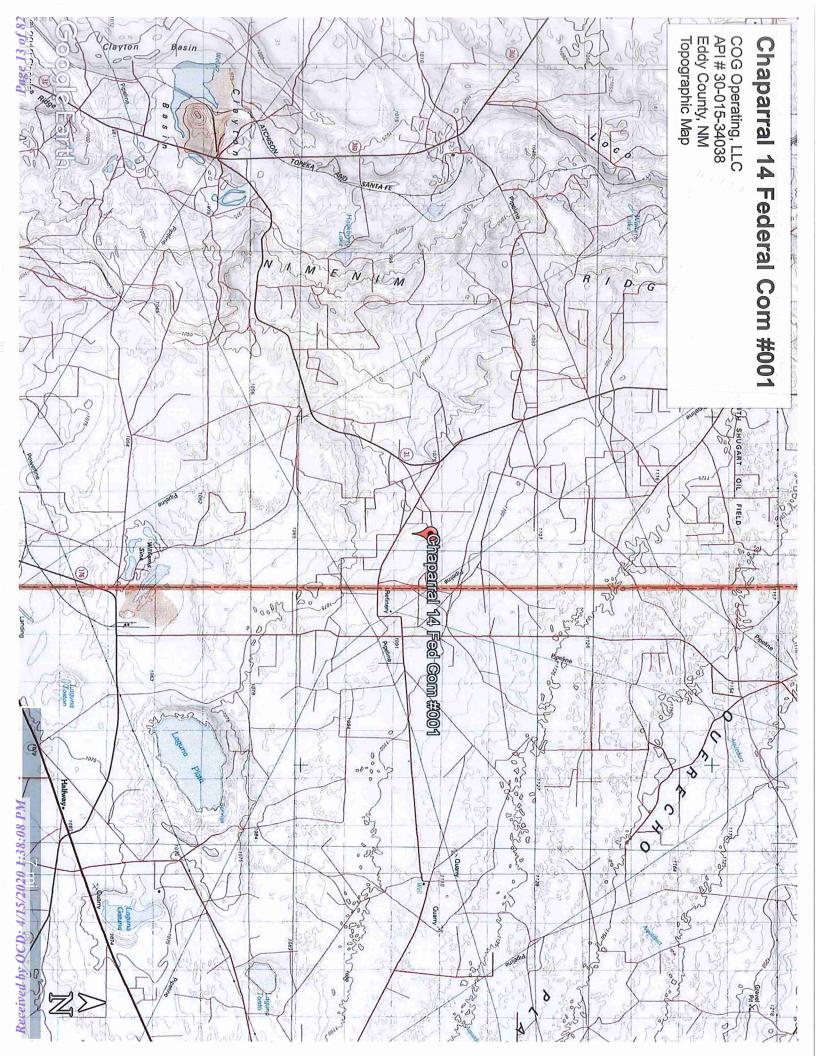


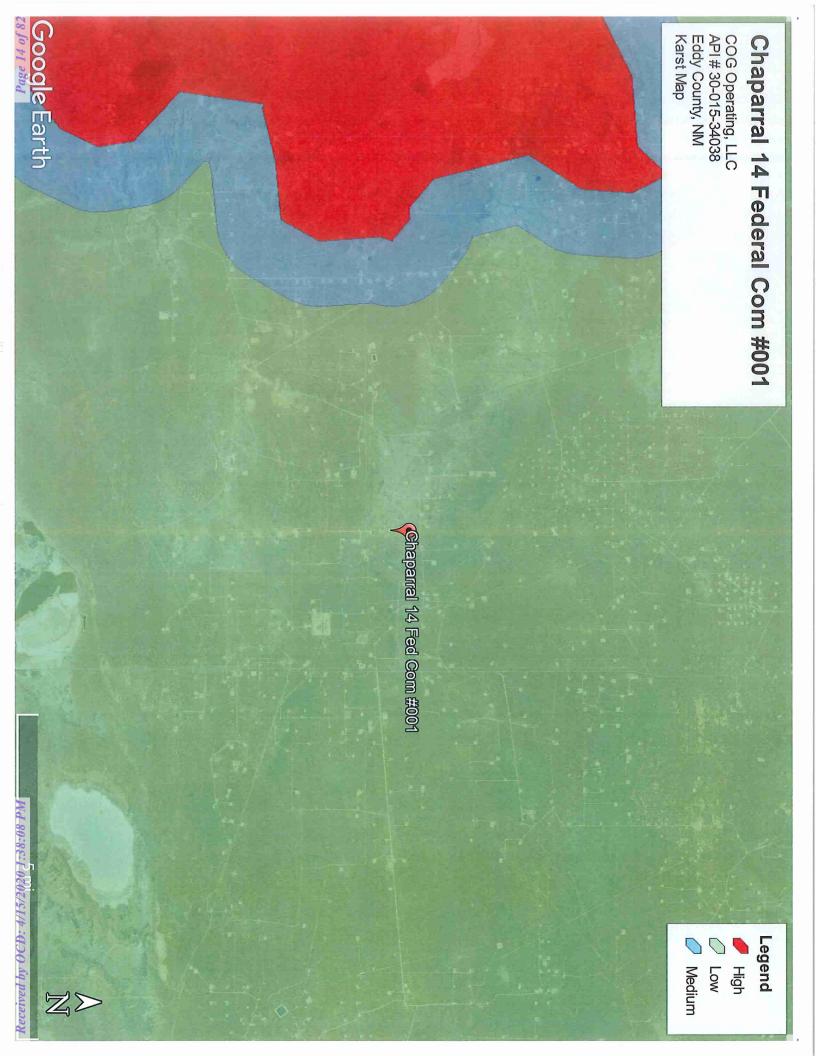
<u>APPENDIX I</u>

SITE MAPS









National Flood Hazard Layer FIRMette

32°39'45.49"N





Legend

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

SPECIAL FLOOD HAZARD AREAS

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

Chance Flood Hazard Zone X Future Conditions 1% Annual of 1% annual chance flood with average

depth less than one foot or with drainag

0.2% Annual Chance Flood Hazard, Area

areas of less than one square mile zone

Levee. See Notes. Zone X Area with Reduced Flood Risk due to

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone A

Effective LOMRs

Area of Undetermined Flood Hazard Zone

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL ----Channel, Culvert, or Storm Sewer

Cross Sections with 1% Annual Chance

Coastal Transect Water Surface Elevation Base Flood Elevation Line (BFE)

Jurisdiction Boundary Limit of Study

Hydrographic Feature Profile Baseline

Coastal Transect Baseline

OTHER

Digital Data Available No Digital Data Available

MAP PANELS

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represe 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

was exported on 2/3/2020 at 2:04:06 PM and does not authoritative NFHL web services provided by FEMA. This map become superseded by new data over time. time. The NFHL and effective information may change or reflect changes or amendments subsequent to this date and The flood hazard information is derived directly from the

Received by OCD: 4/15/2020 1:38:08 PM unmapped and unmodernized areas cannot be used for legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map

Page 15 of 82

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COG Chaparral-141Fed Com

COG Operating, LLC Eddy County, NM Wetland Map Chaparral 14 Fed Com 1 Legend COG Chaparral 14 Fed Com 1



APPENDIX II

SOIL SURVEY

GROUNDWATER DATA

Eddy Area, New Mexico

SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w5y Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona 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 Simona

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: fine sandy loam H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: Very high

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

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

Description of Wink

Setting

Landform: Depressions, swales

Landform position (three-dimensional): Talf

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: fine sandy loam H2 - 8 to 38 inches: fine sandy loam

H3 - 38 to 60 inches: stratified gravelly variable

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

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Low (about 6.0 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

Dune land

Percent of map unit: 15 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, 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

(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

(NAD83 UTM in meters)

(In feet)

		POD		_	_	_									
POD Number	Code		County LE	64		4	Sec		-	χ	γ	DistanceDep			Water olumn
<u>CP 01554 POD1</u>		CP						198		607166	3613354	2340	400		
<u>CP 01554 POD2</u>		CP	LE	2	2	1	22	19S	31E	607165	3613322	2349	400		
CP 00563 POD1		CP	LE	1	1	2	19	19S	32E	612118	3613376*	2783	300		
CP 00642 POD1		CP	ED		2	2	25	198	31E	611025	3611657*	2860	250		
CP 00829 POD1		CP	LE		2	4	16	198	31E	606165	3614009*	3244	120		
CP 00640 POD1		CP	LE		2	2	19	198	32E	612621	3613280*	3294	260	102	158
CP 00639 POD1		CP	LE		3	1	20	198	32E	613029	3612880*	3793	350	345	5
CP 01656 POD2		CP	LE	3	4	3	17	198	32E	613364	3613648 🌑	3970	70		
CP 01656 POD1		CP	LE	3	4	3	17	198	32E	613368	3613646 鶅	3975	70		
CP 01656 POD3		CP	LE	3	4	3	17	198	32E	613374	3613633 鶅	3982	30		
CP 00641 POD1		CP	ED		4	1	36	198	31E	610247	3609634*	4462	300	130	170
CP 00849 POD1		CP	LE	3	1	3	35	185	31E	608012	3618757*	4941	300		

Average Depth to Water:

192 feet

Minimum Depth:

102 feet

Maximum Depth:

345 feet

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 609409.847

Northing (Y): 3614017.509

Radius: 5000

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.

1/30/20 2:20 PM

WATER COLUMN/ AVERAGE DEPTH TO

^{*}UTM location was derived from PLSS - see Help



APPENDIX III

BORING LOGS



BORING LOG

Project No.: 700778.137.02

Site Name: Chaparral 14 Fed Com 1

Location: Eddy County, NM

Date: 12/4/2019

Boring Number: B-2

Weather: Cold, Windy Temp.: ____°F

Logger: D. Adkins

Driller: G. Perez

Rig Type: Reich Drill

Field Instrument: PID, CL Titration

Latitude: 32°, 39', 30.16" N

Bit Size: 5 7/8"

Drilling Method: Air Rotary

Longitude: 103°, 49', 59.54" W Sample Retrieval Method: Split Spoon

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	nscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	hastriessy	0-2'				Dark gray/brown gravel and caliche pad	Slight	
		2-6'				Gray/brown fine Sand (SP)	Strong	
		6-12'				Gray/brown sandy caliche	Mod.	1219 @12'
	**************************************	12-20'				Tan to red/brown fine Sand (SP)	Mod.	1500 @20'
	Automount	20-50'			THE STATE OF THE S	Red/brown fine Sand (SP) with caliche 40-50'	Mod.	1200 @40'
		50-55'				Gray/brown Limestone	Slight	332 @60'
		55'- 120'				Dark red/brown fine Sand (SP)	Slight	56 @70'
							None	36 @80'
				·			None	38 @90'
							None	0 @100'
							None Slight Mod. Strong	
							None Slight Mod. Strong	
Notes	Surface Elevation: Notes: TD 120', Groundwater not encountered Logger Initials: DA							



BORING LOG

Project No.: 700778.137.02

Site Name: Chaparral 14 Fed Com 1

Location: Eddy County, NM

Date: 12/4/19

Boring Number: B-1

Weather: Cold, Windy Temp.: _____°F

Driller: G. Perez

Logger: D. Adkins

Rig Type: Reich Drill

Field Instrument: PID, CL Titration

Bit Size: 5 7/8"

Latitude: 32°, 39', 30.23" N

Drilling Method: Air Rotary

Longitude: 103°, 49', 59.86" W

Sample Retrieval Method: Split Spoon

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	nscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
		0-1'				Gray/brown caliche pad	None	
		1-10'				Light gray/brown fine Sand (SP)	None	
		10-14'				Gray/brown fine Sand (SP) with caliche	None	1ppm @10'
		14-18'				Gray/brown fine Sand (SP)	None	
		18-20'			1	Red/brown fine Sand (SP) with caliche	None	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
Notes	Surface Elevation: Notes: TD @ 20', Groundwater not encountered Logger Initials: DA							



APPENDIX IV

C-141's

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

32.65842

Latitude

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	NAB1924836726
District RP	2RP-5607
Facility ID	
Application ID	pAB1924836311

Release Notification

EOIW2-190801-C-1410

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)	NAB1924836726
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.83324

Site Name		Chaparral 14	Federal Com #0	01 Site Ty	pe	Tank Battery			
Date Release	Date Release Discovered July 17, 2019					²⁾ 30-015-34038			
				•					
Unit Letter	Section	Township	Range	C	County				
l	14	19S	31E	_	L ea -	**EDDY AB			
Surface Owner: State Federal Tribal Private (Name:)									
Nature and Volume of Release									
·		<u> </u>	······································	culations or spe		cation for the volumes provided below)			
Crude Oil		Volume Release	d (bbls)		Vo	lume Recovered (bbls)			
Produced	Water	Volume Release	d (bbls) 20		Vo	Volume Recovered (bbls) 0			
		Is the concentrate produced water	ion of dissolved chlo>10,000 mg/l?	oride in the		Yes No			
Condensa	ite	Volume Release	d (bbls)		Vol	lume Recovered (bbls)			
☐ Natural G	as	Volume Release	d (Mcf)		Vol	lume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units					Vol	lume/Weight Recovered (provide units)			
Cause of Rele	ease	L				**************************************			
The release was caused by a lightning strike on the water tank resulting in a fire. The release was within the unlined berm and on location. 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									

Incident ID	NAB1924836726	
District RP	2RP-5607	
Facility ID		
Application ID	pAB1924836311	

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by	The release involved a fire.	
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To whom?	nom? When and by what means (phone, email, etc)?
The state of the s	as given by DeAnn Grant via e-n	nail July 18, 2019 at 10:07 am to Mike Bratcher and
Jim Amos.		
	T:4:.1 D	
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rela	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
Released materials h	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have not been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence i	emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
		blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
public health or the environ	ment. The acceptance of a C-141 report by the C	OCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: DeAn	n Grant	Title: HSE Administrative Assistant
Signature:	Owant.	
Signature:	100000	Date: 7/26/2019
email: agrant@co	oncho.com	Telephone: (432) 253-4513
		,
OCD Only		
Received by:	malia Bustamante	Date:9/5/2019



Incident ID	NAB1924836726
District RP	2RP-5607
Facility ID	30-015-34038
Application ID	

Site Assessment/Characterization

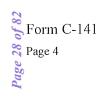
This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	102 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ertical extents of soil
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 well. 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	ls.
If the site characterization report does not include completed efforts at remediation of the release, the report mus	et 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

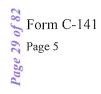
contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 4/15/2020 1:38:08 P



Incident ID	NAB1924836726
District RP	2RP-5607
Facility ID	30-015-34038
Application ID	

Date: 4/14/20 1: itavarez@concho.com Telephone: 432.685.2573	
Printed Name: Ike Tavares, P.G.	Title: Senior HES Supervisor, COG Operating, LLC
Signature:	Date: 4/14/20
email: itavarez@concho.com	Telephone: 432.685.2573
och o I	
OCD Only	
Received by:	Date:



Incident ID	NAB1924836726
District RP	2RP-5607
Facility ID	30-015-34038
Application ID	

Remediation Plan

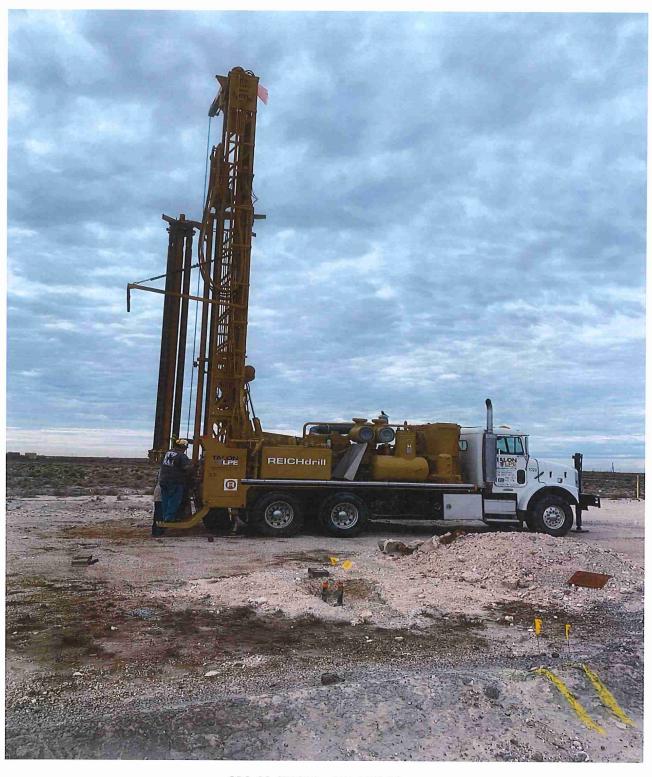
Remediation Plan Checklist: Each of the following items must be	included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12 ☑ Proposed schedule for remediation (note if remediation plan time) 	C(C)(4) NMAC line is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be conj	irmed as part of any request for deferral of remediation
	duction equipment where remediation could cause a major facility
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 rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD acresponsibility for compliance with any other federal, state, or local lateral contents and the surface water, or local lateral contents and the surface water.	rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, exceptance of a C-141 report does not relieve the operator of
Printed Name: Ike Tavares, P.C.	Title: Senior HES Supervisor, COG Operating, LLC
Signature:	Date: 4/14/20
email: itavarez@concho.com	Telephone: 432.685.2573
OCD Only	
Received by:Victoria Venegas	Date: 04/05/2020
Approved With Attached Conditions of A	pproval
Signature:	Date: 06/15/2020



APPENDIX V

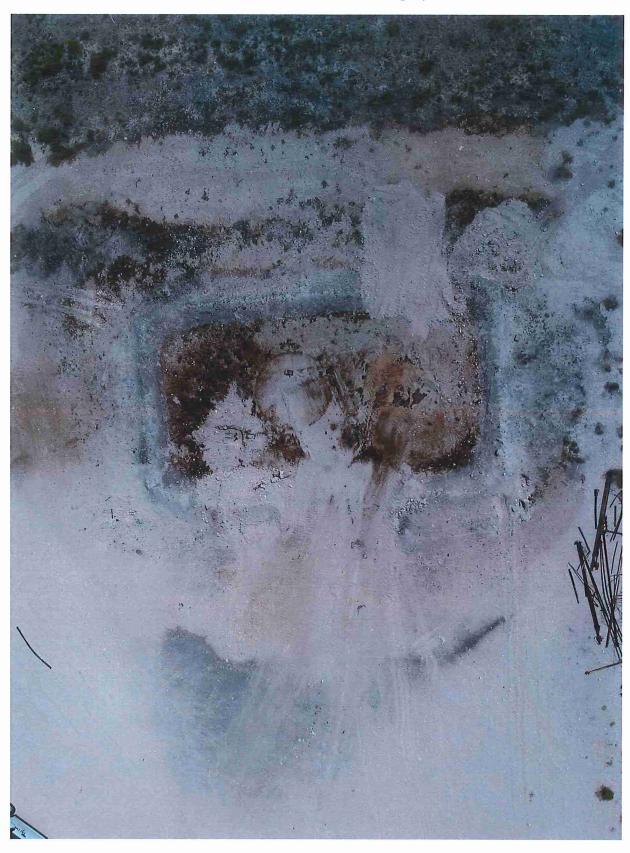
PHOTOGRAPHS

Drilling Photograph



GPS 32.658390, -103.833209

Pre-excavation Aerial Photograph





APPENDIX VI

LABORATORY DATA







October 18, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CHAPARRAL 14 FED COM #001

Enclosed are the results of analyses for samples received by the laboratory on 10/14/19 13:45.

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 accreditated 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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 1 0-1' (H903482-01)

BTEX 8021B	mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC				PAGE AND A		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/17/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	<10.0	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142			.				
Surrogate: 1-Chlorooctadecane	96.9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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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:

10/14/2019

Reported:

10/18/2019

Sampling Date: Sampling Type: 10/09/2019

CHAPARRAL 14 FED COM #001

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 1 2' (H903482-02)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/17/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	<10.0	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kenna



Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 1 3' (H903482-03)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97,3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC			****			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/17/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	<10.0	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	10/15/2019	ND			T.		
Surrogate: 1-Chlorooctane	88.2	% 41-142	·						
Surrogate: 1-Chlorooctadecane	91.0	% 37.6-14	7						

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Celeg to trema



Analytical Results For:

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

Received: Reported: 10/14/2019

10/18/2019

Project Name: Project Number: CHAPARRAL 14 FED COM #001

Project Location:

700778.137.01 COG - EDDY CO NM Sampling Date:

Sampling Date:
Sampling Type:

10/09/2019

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

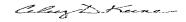
Sample ID: B - 1 4' (H903482-04)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	0.340	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	0.340	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/17/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	<10.0	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	20,2	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142							
Surrogate: 1-Chlorooctadecane	93.5	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported: 10/14/2019

10/18/2019

Project Name: Project Number: CHAPARRAL 14 FED COM #001

Project Location:

700778.137.01 COG - EDDY CO NM Sampling Date:

Sampling Type:

10/09/2019 Soil

Cool & Intact

Sampling Condition: Sample Received By:

oor & mace

Tamara Oldaker

Sample ID: B - 2 0-1' (H903482-05)

BTEX 8021B	mg,	/kg	Analyze	d By: BF	-		******		S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	1.22	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	17.4	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	18.6	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	438	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	10/17/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1460	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	3330	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	454	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	279	% 41-142	•						
Surrogate: 1-Chlorooctadecane	133	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine





Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

DTEV OAT1D

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

C 04

Project Location:

COG - EDDY CO NM

Sample ID: B - 2 2' (H903482-06)

BTEX 8021B	mg/	kg	Analyze	d By: BF				*****	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	2.29	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	16.7	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	19.0	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	493 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1910	10.0	10/15/2019	ND	195	97.5	200	2.38	
DRO >C10-C28*	2550	10.0	10/15/2019	ND	205	103	200	5.68	
EXT DRO >C28-C36	177	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	231	% 41-142							
Surrogate: 1-Chlorooctadecane	118 9	% 37.6-14	7						

Analyzed Byr DE

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received: Reported: 10/14/2019

10/18/2019

Project Name: Project Number: CHAPARRAL 14 FED COM #001

Project Location:

700778.137.01 COG - EDDY CO NM Sampling Date:

Sampling Type:

10/09/2019 Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: B - 2 3' (H903482-07)

BTEX 8021B	mg	/kg	Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	10/16/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	4.45	1.00	10/16/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	5.03	1.00	10/16/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	39.3	3.00	10/16/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	48.8	6.00	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	128	% 73.3-12	9					•	
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1370	10.0	10/15/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	1520	10.0	10/15/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	54.9	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	176	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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Celey & Keine





Analytical Results For:

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

Fax To:

Received: Reported:

10/14/2019 10/18/2019

CHAPARRAL 14 FED COM #001

Project Name: Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sampling Date:

Sampling Type:

10/09/2019 Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: B - 2 4' (H903482-08)

BTEX 8021B	mg	/kg	Analyze	d By: BF		- A			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/16/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	10.7	2.00	10/16/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	7.77	2.00	10/16/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	81.0	6.00	10/16/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	99.5	12.0	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1900	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2610	10.0	10/15/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	3340	10.0	10/15/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	905	10.0	10/15/2019	ND					
Surrogate: 1-Chlorooctane	451	% 41-142	?						
Surrogate: 1-Chlorooctadecane	133	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Tamara Oldaker

Sample ID: B - 2 5' (H903482-09)

BTEX 8021B	mg/kg		Analyzed By: BF			W-151	S 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	10/16/2019	ND	1.94	96.9	2.00	2,55	
Toluene*	36.0	5.00	10/16/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	20.1	5.00	10/16/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	253	15.0	10/16/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	309	30.0	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6180	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	4370	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	238	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	277	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Celeg & Kuna



Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

DTEV 0021D

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 2 6' (H903482-10)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	10/16/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	30.7	5.00	10/16/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	23.0	5.00	10/16/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	266	15.0	10/16/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	320	30.0	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1950	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6490	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	4520	10,0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	243	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	210	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778,137,01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 2 7' (H903482-11)

BTEX 8021B	8021B mg/kg			d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	9.34	2.00	10/16/2019	ND	1.93	96.6	2.00	2.21	QM-07
Ethylbenzene*	11.7	2.00	10/16/2019	ND	1.95	97.5	2.00	3.04	QM-07
Total Xylenes*	106	6.00	10/16/2019	ND	5.88	98.0	6.00	3.48	QM-07
Total BTEX	127	12.0	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	132 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC			***************************************			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3160	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	2710	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	162	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	261	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

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

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Received: Reported: 10/14/2019

Project Name:

10/18/2019 CHAPARRAL 14 FED COM #001

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

10/09/2019

Sample ID: B - 3 0-1' (H903482-12)

BTEX 8021B	mg,	/kg	Analyze	d By: BF	w.w.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2,21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	0.250	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC				u		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			Q-11		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	16.9	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.7	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 3 2' (H903482-13)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2,21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Name: Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 3 3' (H903482-14)

BTEX 8021B	mg,	'kg	Analyze	d By: BF					Wileya i Ara
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 73.3-12	9						
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	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.2	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Tamara Oldaker

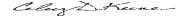
Sample ID: B - 3 4' (H903482-15)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS			ADMIT .		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	100	10.0	10/16/2019	ND	199	99.3	200	1,44	
EXT DRO >C28-C36	238	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	86.1	% 41-142							
Surrogate: 1-Chlorooctadecane	94.3	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported: 10/14/2019

10/18/2019

Project Name: Project Number: CHAPARRAL 14 FED COM #001 700778.137.01

Project Location:

COG - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

10/09/2019 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B - 4 0-1' (H903482-16)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	0.057	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	0.748	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	0.805	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC				are one a	-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	54.2	10.0	10/16/2019	ND	199	99.3	200	1,44	
EXT DRO >C28-C36	51.4	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	86.7	% 41-142							
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

DTEV 0021B

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 4 2' (H903482-17)

BTEX 8021B	mg,	/kg	Analyze	d By: BF			F-51		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1,90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.7	% 73.3-129)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	77.2	% 41-142							
Surrogate: 1-Chlorooctadecane	82.3	% 37.6-14	7						

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analysis of Day DE

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 4 3' (H903482-18)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3,48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC		***************************************			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142)						
Surrogate: 1-Chlorooctadecane	81.6	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By: Tamara Oldaker

Sample ID: B - 4 4' (H903482-19)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	0.347	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	0.347	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	56,3	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	36.6	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142			• •				
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Project Location:

COG - EDDY CO NM

Tamara Oldaker

Sample ID: B - 5 0-1' (H903482-20)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142							
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Tamara Oldaker

Sample ID: B - 5 2' (H903482-21)

BTEX 8021B	mg/	kg	Analyze	d By: BF				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3.01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96,6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	82,2	% 41-142							
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/14/2019

Sampling Date:

10/09/2019

Reported:

10/18/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - EDDY CO NM

Sample ID: B - 5 3' R (H903482-22)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2019	ND	1.90	95.0	2.00	3,01	
Toluene*	<0.050	0.050	10/16/2019	ND	1.93	96.6	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2019	ND	1.95	97.5	2.00	3.04	
Total Xylenes*	<0.150	0.150	10/16/2019	ND	5.88	98.0	6.00	3.48	
Total BTEX	<0.300	0.300	10/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/17/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	190	94.9	200	0.134	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	199	99.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.1	% 37.6-14	7						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey & Keine

101 East Marland, Hobbs, NM 28240 (575) 393-2326 FAX (575) 393-2476 " T. lo. 1 D C

Project Manager: David Adding		ANALYSIS REQUEST
W/ Hair	,,,,,,,, .	
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Froject owner: COC	Oity:	
Froject Name: Chapacral 17 Fed Com #001		-
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Sampler Name: Brahdon Sinclair		
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(initials)

Sampler - UPS

Jus - Other:

Relinguished By:

2/4/0

Page 58 of 82



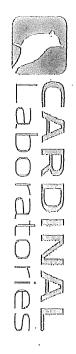
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Yes D No Add' Phone #:	Phone Result:	Received Rive	Relibritished Ev.
	asons or otherwise.	Carolhal, regardless of whether such claim is based upon any of the above stated to	stillates or successors arising out of ar retaled to the performance of services hereunder by Carolhal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.
	client, its subsidiaries,	ng willhout Unitation, business interruptions, loss of use, or loss of profits incurred by	service. In no event shall Catalinal be fibble for incidental ar consequental damages, including will not Unitation, business interruptions, loss of Use, or loss of profits hoursed by eitent, its subsidiaries,
•	id by the client for the armaiction of the applicable	any claim arising whether based in contract or toti, chall be limited to the amount pa The deemed waived unless mode in writing and received by Cardinal within 30 days at	PLEASE NOTE: Classing and Durages, Cominate inship and elents exclusive among view of any other process of the common of the com
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	01:11		15-3 4
	10:59		14 B-3 3'
	10:57		13 15-3 2 '
	10:55		12 8-3 0-1
	14:01	6/10/01/2	11 B-2 7'
Tot	TIME	(G)RAB # CONTA	4903482
EX.	PH E	DWATER WATER E ; uSE:	Lab I.D. Sample I.D.
	TING X	p. WATRIX PRESERV SAMPLING	FOR LAB USE ONLY
or	 	Fax #:	Sampler Name: Brandon Sinclair
ia		Phone #:	Project Location: Eddy County
le		om #001 State: Zip:	Project Name: Chaparral 14 Fed C
<i>s</i>		effy:	Project #: 700778, 1370 Project Owner:
		Address:	Phone 表 5 フ 5 - フ 4 6 - 8 7 8 Fax 表
	Vee	Zip: 88210 Atin: Dakota N	City: Artesia State: NM
		Company: COG	Address: 408 W Texas Ave
		P,O, 崇;	Project Manager: David Adlins
ANALYSIS REQUEST			Company Name: Talon 1 DE

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

Sampler - UPS - Bus - Other:

Page 59 of 82



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

Conspany Marrie: Tallon 1 D C		ANALYSIS REQUEST
Adlins	P.O. 崇	- 4
ekas Ave	Company: COG	
State: NM Zip: 88210	Attn: Dakota Neel	
フ <i>ソ6ー 676 S</i> Fax #:	ŧ :	
Froject #: 700778. 37.0 Project Owner: COG	City:	5
4 Fed Com #001	State: Zip:	,
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218-52	10/9/19 12:22	
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PLEASE NOTE: Liability and Damagos. Cardinate liability and elicints excitative coincely for any claim arising whether based in contrast of this, shall be limited to the unrount paid by the client for the arreling whether and cardinate in the contrast of the cardinate in the contrast of the cardinate in the car	r lost, shall be limited to the amount paid by the elicht for	100

i Cardinal cannot accept verbal changes. Please fax written changes to (575) 392-2326

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Reper

Page 60 of 82

December 12, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CHAPARRAL 14 FED COM #001

Enclosed are the results of analyses for samples received by the laboratory on 12/09/19 15:00.

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 accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/09/2019

Reported:

12/12/2019

Project Name:

CHAPARRAL 14 FED COM #001

Project Number: Project Location: 700778.137.01

COG - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil

Cool & Intact

12/04/2019

Jodi Henson

Sample ID: B-1 0'-1' (H904109-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte Result

Result Reporting Limit **1280** 16.0

Analyzed 12/10/2019

Method Blank ND BS 432 % Recovery 108

True Value QC 400 RPD

0.00

Qualifier

Sample ID: B-1 2' (H904109-02)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Result

32.0

Result

32.0

Result

48.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed By: AC

Analyzed 12/10/2019

Method Blank ND BS

432

BS

432

% Recovery 108 True Value QC

400

RPD

0.00

Qualifier

Sample ID: B-1 4' (H904109-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed

12/10/2019

Analyzed

12/10/2019

Method Blank ND

% Recovery

True Value QC

400

RPD 0.00

Qualifier

Sample ID: B-1 6' (H904109-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

BS 432 % Recovery 108

108

True Value QC 400 RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Dusinet Leastien.

/00//8.13/.01

Project Location: COG - EDDY CO NM

Sample ID: B-1 8' (H904109-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2019	ND	432	108	400	0.00	

Sample ID: B-1 10' (H904109-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/10/2019	ND	432	108	400	0.00	

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/09/2019

Reported: Project Name: 12/12/2019

CHAPARRAL 14 FED COM #001

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

12/04/2019 Soil Cool & Intact

Jodi Henson

Sample ID: B-2 8' (H904109-07)

BTEX 8021B	mg,	/kg	Analyzed By: MS				44-24-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	0.210	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	0.662	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	6.13	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	7.00	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	362	% 73.3-12	9						
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	12/10/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	260	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	925	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	42.5	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	126	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	17						

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Analytical Results For:

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

Sample ID: B-2 10' (H904109-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	1.56	0.500	12/11/2019	ND	2,04	102	2.00	7.77	
Ethylbenzene*	4.70	0.500	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	42.6	1.50	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	48.9	3.00	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	196	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/10/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS		summ			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	950	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	1570	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	74.7	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	145	% 41-142	2						
Surrogate: 1-Chlorooctadecane	88.9	% 37.6-14	17						

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Jodi Henson

Sample ID: B-2 15' (H904109-09)

TEX 8021B	mg/l	kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2,00	6.59	
Toluene*	0.516	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	1.31	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	15.1	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	17.0	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	392 %	6 73.3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS				***************************************	5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	736	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	1960	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	115	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	290 %	6 41-142							
Surrogate: 1-Chlorooctadecane	92.4 %	6 37.6-14	7						

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Analytical Results For:

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

Received: 12/09/2019 Reported: 12/12/2019

Project Name: CHAPARRAL 14 FED COM #001

Project Number: 700778.137.01

Project Location: COG - EDDY CO NM Sampling Date:

Sampling Type:

12/04/2019

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: B-2 20' (H904109-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	3.49	1.00	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	8.21	1.00	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	87.0	3.00	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	98.7	6.00	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	196 %	6 73.3-12	9						***************************************
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2560	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	3390	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	163	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	309 %	6 41-142				1000000			
Surrogate: 1-Chlorooctadecane	96.1 9	% 37.6-14	7						

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Analytical Results For:

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

Sample ID: B-2 25' (H904109-11)

BTEX 8021B	mg/kg		Analyzed By: MS		- 15 - 14 - 15 - 15 - 15 - 15 - 15 - 15			S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/11/2019	ND	2.03	102	2.00	6,59	
Toluene*	1.93	0.500	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	6.16	0.500	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	51.0	1.50	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	59.1	3.00	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	228 5	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1970	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	3620	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	130	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	166 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Fax To:

Received:

12/09/2019

Reported:

12/12/2019

Project Name: Project Number: CHAPARRAL 14 FED COM #001 700778.137.01

Project Location:

COG - EDDY CO NM

Sampling Date:

Sampling Type:

12/04/2019 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: B-2 30' (H904109-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	3.93	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	6.96	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	49.9	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	60.8	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	580 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2190	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	2670	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	119	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	194 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1 9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received:

12/09/2019

Reported:

Sampling Date:

12/04/2019

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

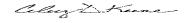
Sample ID: B-2 40' (H904109-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS			-14-11-14-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	0.714	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	1.85	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	17.8	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	20.4	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	552 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	805	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	1960	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	36.9	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	160 %	6 41-142	<u>. </u>						
Surrogate: 1-Chlorooctadecane	96.2 9	% 37.6-14	7						

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Analytical Results For:

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778,137.01

Sample Received By:

Project Location:

COG - EDDY CO NM

Jodi Henson

Sample ID: B-2 50' (H904109-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	0.699	0.050	12/10/2019	ND	2.04	102	2.00	7,77	
Ethylbenzene*	2.26	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	19.5	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	22.4	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	481 %	6 73.3-12	9				.,		
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	615	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	1430	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	60.2	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	130 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.5 9	% 37.6-14	7						

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

Sample ID: B-2 60' (H904109-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	0.199	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	7.91	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	8.10	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	315 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	329	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	1270	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	87.3	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	191 %	6 41-142	·						
Surrogate: 1-Chlorooctadecane	92.8 9	6 37.6-14	7						

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Analytical Results For:

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

Sample ID: B-2 70' (H904109-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	0.183	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	34.5	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	83.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.5	% 37.6-14	7						

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Analytical Results For:

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Fax To:

(575) 745-8905

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778,137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Jodi Henson

Sample ID: B-2 80' (H904109-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 73.3-12)						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	63.7	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	84.5 %	6 41-142							****
Surrogate: 1-Chlorooctadecane	85.8 %	6 37.6-14	7						

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alley treena



Analytical Results For:

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Fax To:

(575) 745-8905

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Sample Received By:

Jodi Henson

Project Location:

COG - EDDY CO NM

Sample ID: B-2 90' (H904109-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 73.3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	84.4	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	84.3 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.3 %	6 37.6-14	7						

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 12/09/2019

12/12/2019

CHAPARRAL 14 FED COM #001

Project Name: Project Number: Project Location:

COG - EDDY CO NM

700778.137.01

Sampling Date:

12/04/2019

Sampling Type: Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: B-2 100' (H904109-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 73.3-12	9					, , , ,	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	67.1	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	78.7 %	% 41-142							
Surrogate: 1-Chlorooctadecane	79.9 %	6 37.6-14	7						

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Fax To:

(575) 745-8905

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778,137,01

Sample Received By:

Project Location:

COG - EDDY CO NM

Jodi Henson

Sample ID: B-2 110' (H904109-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	87.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.4	% 37.6-14	7						

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Analytical Results For:

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

Received:

12/09/2019

Sampling Date:

12/04/2019

Reported:

12/12/2019

Sampling Type:

Soil

Project Name:

CHAPARRAL 14 FED COM #001

Sampling Condition:

Cool & Intact

Project Number:

700778.137.01

Project Location:

COG - EDDY CO NM

Sample Received By:

Jodi Henson

Sample ID: B-2 120' (H904109-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/11/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	176	88.2	200	9.83	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	180	90.1	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	107 %	6 41-142							
Surrogate: 1-Chlorooctadecane	114 %	6 37.6-14	7						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

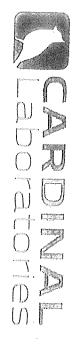
Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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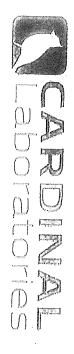
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101 East Mariand, Hobbs, NM 88240 (575) 383-2326 FAX (575) 393-2476

Project Manager: DAVID ANKINS				ANALYSIS REQUEST
70		Company Courts		
City: ARTESIA	OLC88 :diz MN:estate	Attn: Darrio usr		
		Address:	***************************************	
	Project Owner: CONCHO	Cia/:		
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101 East Mariand, Hobbs, NM 88249 (575) 388-2326 FAX (575) 393-2476

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