



Soil Assessment and Remediation Work Plan

Hackberry 26 CTB API # 30-015-43857 Talon Project No. 701901.088.01

Prepared For:

Cimarex Energy Company 600 N. Marienfeld St., Ste. 600 Midland, TX 79701

Prepared By:

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

October 1, 2019

Ms. Christine Alderman Cimarex Energy Company 600 N. Marienfeld St., Ste. 600 Midland, TX 79701

Subject:

Soil Assessment and Remediation Work Plan

Hackberry 26 CTB API # 30-015-43857

Dear Ms. Alderman,

Dupre Logistics has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site characterization and proposed remediation activities are contained herein.

Site Information

The Hackberry 26 CTB is located approximately 37 miles SE of Artesia, New Mexico. The legal location for this release is Unit Letter H, Section 26, Township 19 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.6330263 North and -103.9364736 West. A Site Map is presented in Appendix I.

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

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest depth to groundwater is 65-feet below ground surface (BGS).

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

Approximate Depth to	Groundwater	65 Feet/BGS						
□Yes ⊠No	Within 300 feet of any conti any other significant waterc	nuously flowing watercourse or ourse						
□Yes ⊠No	Within 200 feet of any lakeb	oed, sinkhole or playa lake						
∐Yes ⊠No	Within 300 feet from an occ school, hospital, institution	supied permanent residence, or church						
□Yes ⊠No	Within 500 feet of a spring of Well used by less than five watering purposes	or a private, domestic fresh water households for domestic or stock						
☐Yes ⊠No	Within 1000 feet of any fres	sh water well or spring						
□Yes ⊠No	municipal fresh water well f	oal boundaries or within a defined ield covered under a municipal it to Section 3-2703 NMSA 1978						
□Yes ⊠No	Within 300 feet of a wetland	d						
□Yes ⊠No	Within the area overlying a	subsurface mine						
⊠Yes □No	Within an unstable area, yes, high Karst area							
∐Yes ⊠No	Within a 100-year floodplain							
		ole I s Impacted by a Release						
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**					
≤50' feet	Total Chlorides***	EPA 300.0 or SM4500 CI B	600 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg					
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					

Incident Description and Initial Assessment

On May 6, 2019, Dupre Logistics was dispatched by Cimarex to haul a load of oil at the Hackberry 26 CTB. The Dupre truck driver overfilled his truck while loading releasing 7 bbls of oil onto location, 0 bbls were recovered.

On August 7, 2019, Talon personnel mobilized to the site to carry out an initial site assessment. Soil samples were collected utilizing a hand auger to depths at which refusal (rock) was encountered. Hard rock refusal was encountered between 0-feet and 2.0-feet BGS at all eight (8) sample locations.

See Appendix III for a complete report of laboratory results.

8-7-19 Soil Samples

	Sample Date		BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Sample Date	Depth (BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Table 1 Closur 19.15.29 NMA		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
		0	ND	ND	ND	102	129	231	64
S-1	8/7/2019	1	ND	ND	ND	41.5	44.3	85.8	48
		2	ND	ND	ND	ND	ND	ND	32
		0	ND	ND	ND	ND	ND	ND	256
S-2	8/7/2019	1	ND	ND	ND	ND	ND	ND	80
		2	ND	ND	ND	ND	ND	ND	32
		0	0.711	ND	88.8	10200	2800	13088.8	80
S-3	8/7/2019	1	ND	ND	ND	ND	ND	ND	16
		2	ND	ND	ND	30.3	ND	30.3	ND
		0	ND	ND	ND	5920	1120	7040	688
S-4	8/7/2019	1	ND	ND	ND	24.1	ND	24.1	224
		2	ND	ND	ND	ND	ND	ND	32
		0	ND	ND	ND	2120	772	2892	208
S-5	8/7/2019	1	ND	ND	ND	110	28.6	138.6	96
57 - 5,565		2	ND	ND	ND	17.8	ND	17.8	96
		0	ND	ND	ND	332	134	466	48
S-6	8/7/2019	1	ND	ND	ND	ND	ND	ND	64
		2	ND	ND	ND	ND	ND	ND	32
		0	ND	ND	ND	ND	ND	ND	160
S-7	8/7/2019	1	ND	ND	ND	ND	ND	ND	48
		2	ND	ND	ND	ND	ND	ND	16
	-	0	ND	ND	ND	25.4	12.9	38.3	80
S-8	8/7/2019	1	ND	ND	ND	ND	ND	ND	48
		2	ND	ND	ND	ND	ND	ND	32

ND-Analyte Not Detected

Proposed Remedial Actions:

- The impacted area on the location in the vicinity of S-1, S-3, S-4, S-5 and S-6 will be excavated to a depth of 1.0-feet deep.
- All of the excavated material will be hauled to Lea Land LLC, a NMOCD approved disposal facility.
- Confirmation samples will be collected to verify that all impacted material above NMOCD cleanup criteria has been removed.
- The excavated areas will be backfilled with like material, machine compacted and contoured to match the surrounding area terrain.

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

Respectfully submitted,

TALON/LPE

Chris Jones Project Manager David J. Adkins District Manager

Attachments:

Appendix I Site Map, TOPO Map, Area Map & Karst Map

Appendix II Groundwater Data, Soil Survey & FEMA Flood Zone

Appendix III Initial C-141

Appendix IV Laboratory Results



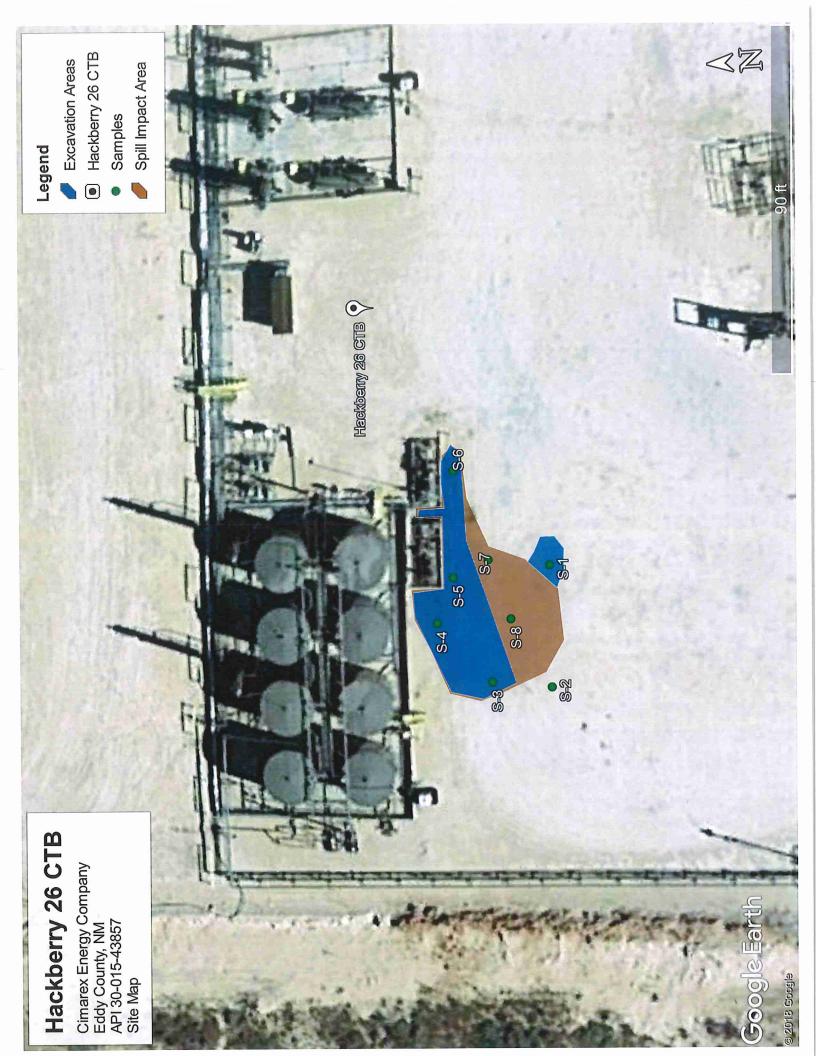
APPENDIX I

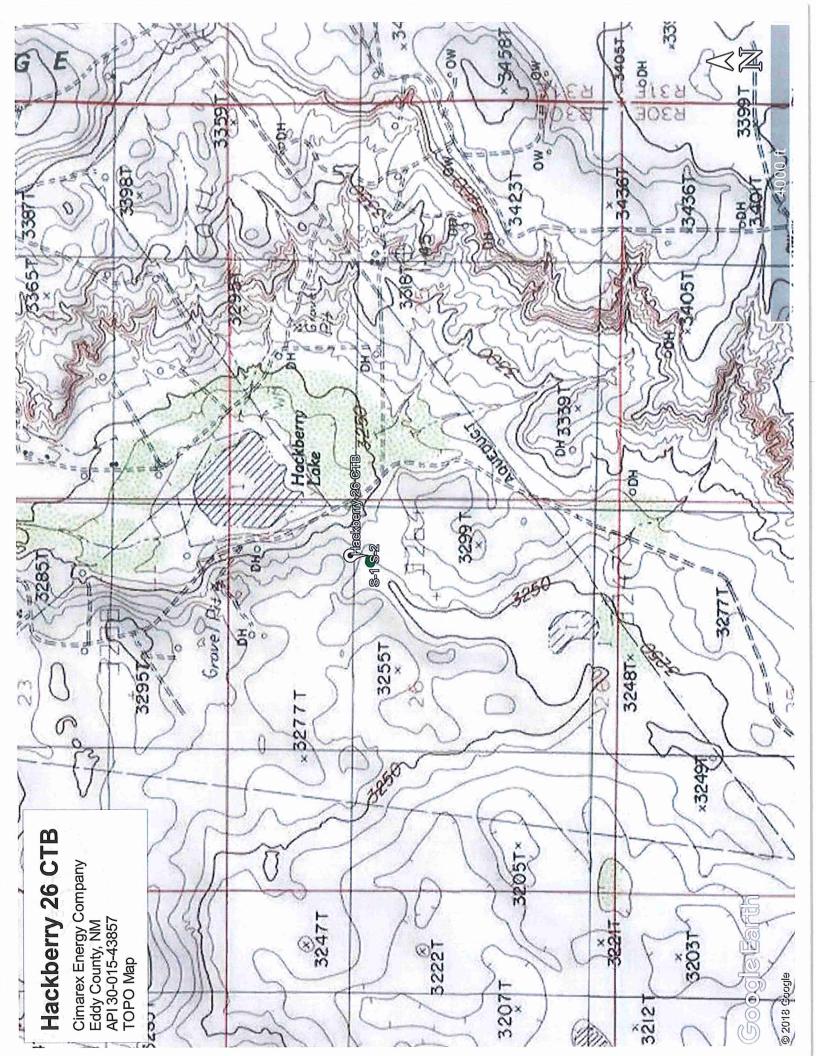
SITE MAP

TOPO MAP

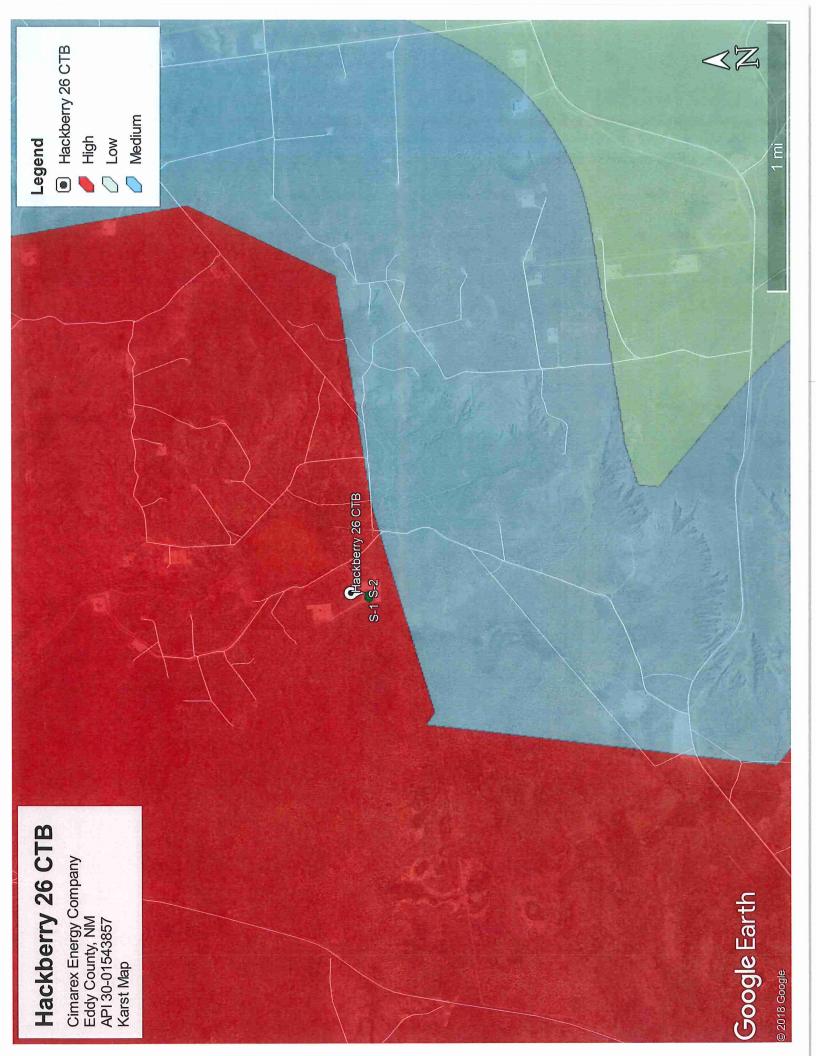
AREA MAP

KARST MAP











APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



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

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								,	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep	othWater C	olumn
<u>CP 00722 POD2</u>		CP	ED	2	1	1	25	19S	30E	600276	3611620*	727	350	65	285
<u>CP 00357 POD2</u>		CP	ED	4	3	1	24	19S	30E	600265	3612627*	1603	630		
<u>CP 00828 POD1</u>		CP	LE		1	1	35	19S	30E	598585	3609900*	1684	90		
<u>CP 00357 POD1</u>		CP	ED	4	4	1	24	19S	30E	600667	3612631*	1774	630		
<u>CP 00827 POD1</u>		CP	LE		3	3	35	19S	30E	598596	3608694*	2677	100		
<u>CP 00873 POD1</u>		CP	LE		1	1	19	19S	31E	601772	3613147* 🌍	2865	340	180	160
CP 00822 POD1		CP	LE		4	4	15	19S	30E	598148	3613516* 🌍	2902	90		

Average Depth to Water:

122 feet

Minimum Depth:

65 feet

Maximum Depth:

180 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 599762.762

Northing (Y): 3611104.149

Radius: 3000

*UTM location was derived from PLSS - see Help

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

8/22/19 11:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet

Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 100 percent

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

Description of Pajarito

Setting

Landform: Interdunes, dunes, plains

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very low

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

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

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

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Wink

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Berino

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

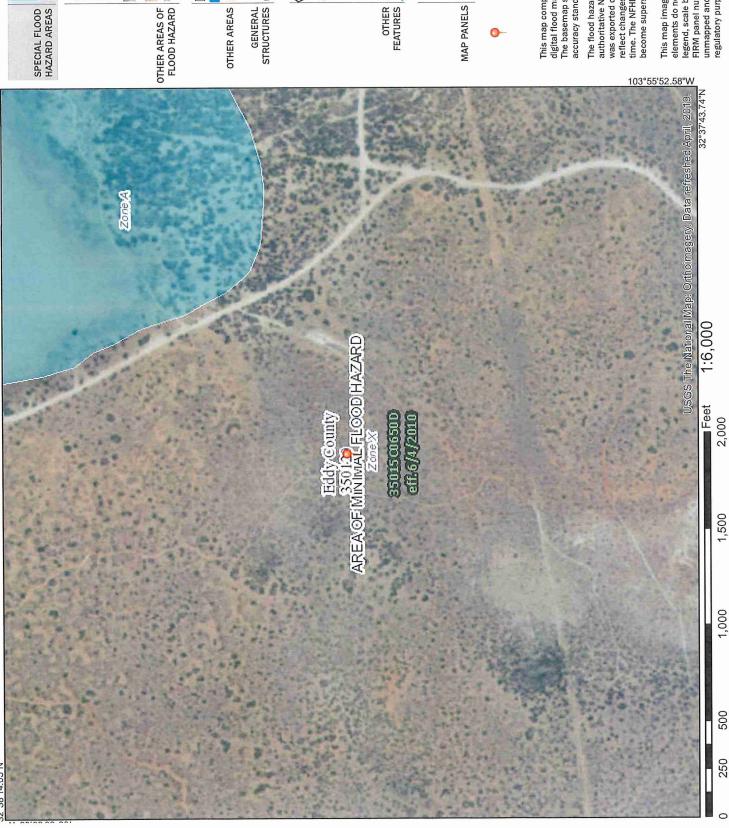
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018

National Flood Hazard Layer FIRMette





Legend

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

With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Regulatory Floodway HAZARD AREAS SPECIAL FLOOD

0.2% Annual Chance Flood Hazard, Area depth less than one foot or with drainag areas of less than one square mile Zone

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

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs**

Area of Undetermined Flood Hazard Zon

Channel, Culvert, or Storm Sewer 1111111 Levee, Dike, or Floodwall GENERAL

Cross Sections with 1% Annual Chance 17.5

Water Surface Elevation Coastal Transect

Base Flood Elevation Line (BFE)

Jurisdiction Boundary Limit of Study

Coastal Transect Baseline Profile Baseline

Hydrographic Feature

No Digital Data Available Digital Data Available

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

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and was exported on 8/22/2019 at 3:34:56 PM and does not time. The NFHL and effective information may change or The flood hazard information is derived directly from the become superseded by new data over time. This map image is void if the one or more of the following map FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for regulatory purposes,



APPENDIX III

INITIAL C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Cima	rex Energy			OGRID :	215099
Contact Nam	e Christine	Alderman			Contact 7	Celephone 432-853-7059
Contact emai	l calderman	@cimarex.com			Incident f	(assigned by OCD)
Contact mail	ing address	600 N Marienfeld	l Ste 60, Midland	d, TX		
			Location	n of R	telease S	Source
Latitude 32.6	360706		(NAD 83 in a	decimal de	Longitude grees to 5 dec	-103.9375763 imal places)
Site Name Ha	ackberry 26	Fed Com 1H		Antana	Site Type	production battery
Date Release	Discovered	5/6/2019			API# (if ap	pplicable) 30-015-46856
Unit Letter	Section	Township	Range		Cou	inty
. A	26	19S	30E	Edd	у	
Surface Owner			Nature at	nd Vo	lume of	ic justification for the volumes provided below)
Crude Oil	l	Volume Release				Volume Recovered (bbls)
Produced	Water	Volume Release	ed (bbls) 7			Volume Recovered (bbls) 0
		Is the concentra produced water		i chlorid	e in the	☐ Yes ☐ No
Condensa	ite	Volume Release	ed (bbls)			Volume Recovered (bbls)
☐ Natural G	las	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	t Released (prov	ide units)	Volume/Weight Recovered (provide units)
Cause of Rel	ease					
Oil hauler ov	erfilled tanl	k on truck while lo	oading. Human o	error.		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the response	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	arty must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
The impacted area has	s been secured to protect human health and	the environment.
Released materials ha	ve been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed ar	d managed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	n narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environm failed to adequately investiga	nent. The acceptance of a C-141 report by the outer and remediate contamination that pose a thr	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: _Christine	Alderman	Title:ESH Supervisor
Signature: (Alde	rman	Date:05/07/2019
email:calderman@cima	arex.com	Telephone: _432-853-7059
OCD Only		
Received by:		Date:



APPENDIX IV

LABORATORY DATA



August 08, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 26 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/07/19 14:25.

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.qov/field/ga/lab accredited 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.

Mile South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received: Reported: 08/07/2019

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number: Project Location: 701901.088.01

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 1 0 (H902714-01)

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	08/08/2019	ND	2.10	105	2.00	2,02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 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	64.0	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS				i	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	102	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	129	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	73.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.8	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

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

Fax To:

(575) 745-8905

Received:

08/07/2019

Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 1 1 (H902714-02)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 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	48.0	16.0	08/08/2019	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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	41.5	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	44.3	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	78.0	% 41-142	}						
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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

Fax To:

(575) 745-8905

Received:

08/07/2019

Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 1 2 (H902714-03)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	32.0	16.0	08/08/2019	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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	81.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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Fax To:

(575) 745-8905

Received:

08/07/2019

Sampling Date:

08/07/2019

Reported:

08/08/2019

Sampling Type:

Soil

Project Name:

HACKBERRY 26 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701901.088.01

Sample Received By:

Tamara Oldaker

Project Location:

CIMAREX - EDDY CO NM

Sample ID: S - 2 0 (H902714-04)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	256	16.0	08/08/2019	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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10,0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.7	% 37.6-14	7						

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

Number: 701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)
Tamara Oldaker

Sample ID: S - 2 1 (H902714-05)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	80.0	16.0	08/08/2019	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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	79.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	17						

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Sampling Date:

08/07/2019

Reported:

Sampling Type:

Soil

Project Name:

HACKBERRY 26 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

Sample Received By:

Tamara Oldaker

701901.088.01

Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 2 2 (H902714-06)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2,00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO > C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-1÷	17						

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Received:

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Ta

Tamara Oldaker

Sample ID: S - 3 0 (H902714-07)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	0.090	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	0.063	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	0.557	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	0.711	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 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	80.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	88.8	50.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	10200	50.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	2800	50.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	138 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	417 5	% 37.6-14	17						

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Received: Reported: 08/07/2019

08/08/2019

Project Name: Project Number: HACKBERRY 26 BATTERY

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 3 1 (H902714-08)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 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	16.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO > C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

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08/07/2019 08/08/2019 Reported:

HACKBERRY 26 BATTERY Project Name: Project Number: 701901.088.01

Project Location: CIMAREX - EDDY CO NM Sampling Date:

08/07/2019

Sampling Type: Soil Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 3 2 (H902714-09)

Received:

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	<16.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	30.3	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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Received:

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 4 0 (H902714-10)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 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	688	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	5920	50.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	1120	50.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	?						,
Surrogate: 1-Chlorooctadecane	257 9	6 37.6-14	17						

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701901.088.01

Project Name:

Project Number:

Project Number:
Project Location:

HACKBERRY 26 BATTERY

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 4 1 (H902714-11)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 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	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	24.1	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	68.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	73.5	% 37.6-14	17						

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Received:

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

CIMAREX - EDDY CO NM

Project Number: Project Location: 701901.088.01

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 4 2 (H902714-12)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 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	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	71.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	76.3	% 37.6-14	17						

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Fax To:

(575) 745-8905

Received:

08/07/2019

Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 5 0 (H902714-13)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 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	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	2120	50.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	772	50.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	85.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	167 9	% 37.6-14	7						

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08/07/2019

Sampling Date:

08/07/2019

Reported:

08/08/2019

Sampling Type:

Soil

Project Name:

HACKBERRY 26 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701901.088.01

Sample Received By:

Tamara Oldaker

Project Location:

CIMAREX - EDDY CO NM

Sample ID: S - 5 1 (H902714-14)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 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	96.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	110	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	28.6	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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Received:

08/07/2019

Reported: Project Name: 08/08/2019

HACKBERRY 26 701901.088.01

Project Number:

Project Location:

HACKBERRY 26 BATTERY

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 5 2 (H902714-15)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2,03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 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	96.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	17.8	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	80.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.4	% 37.6-14	17						

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ARTESIA NM, 88210

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(575) 745-8905

Received:

08/07/2019

Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 6 0 (H902714-16)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.5	% 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	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	332	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	134	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	17						

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Received:

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 6 1 (H902714-17)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	64.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	78.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.9	% 37.6-14	17						

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Received:

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Reported:

08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 6 2 (H902714-18)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	75.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	17						

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08/08/2019

Project Name:

HACKBERRY 26 BATTERY

Project Number:

Project Location:

701901.088.01 CIMAREX - EDDY CO NM Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 7 0 (H902714-19)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8 9	% 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	160	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	78.8	% 41-142	?	· · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	17						

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Received:

08/07/2019

Reported: Project Name: 08/08/2019

HACKBERRY 26 BATTERY

Project Number:

nber: 701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S - 7 1 (H902714-20)

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	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 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	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	73.1	% 41-142	?					-	
Surrogate: 1-Chlorooctadecane	75.9	% 37.6-14	17						

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

Fax To:

(575) 745-8905

Received:

08/07/2019

Sampling Date:

08/07/2019

Reported:

08/08/2019

Sampling Type:

Soil

Project Name:

HACKBERRY 26 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701901.088.01

Sample Received By:

Tamara Oldaker

CIMAREX - EDDY CO NM Project Location:

Sample ID: S - 7 2 (H902714-21)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					St. comment
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	88.2	% 37.6-14	17						

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Fax To:

Received: Reported: 08/07/2019 08/08/2019

HACKBERRY 26 BATTERY

Project Name: Project Number:

701901.088.01

Project Location:

CIMAREX - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

08/07/2019

Tamara Oldaker

Sample ID: S - 8 0 (H902714-22)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2,00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 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	80.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	25.4	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	12.9	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	54.5	% 41-142	2						4
Surrogate: 1-Chlorooctadecane	60.6	% 37.6-14	17						

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

Fax To:

(575) 745-8905

Received:

08/07/2019

Sampling Date:

08/07/2019

Reported:

08/08/2019

Sampling Type:

Soil

Project Name:

HACKBERRY 26 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701901.088.01

Sample Received By:

Tamara Oldaker

Project Location:

CIMAREX - EDDY CO NM

Sample ID: S - 8 1 (H902714-23)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1,35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	· ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	75.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.4	% 37.6-14	17						

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

Fax To:

(575) 745-8905

Received:

08/07/2019

Reported:

Project Name:

HACKBERRY 26 BATTERY

CIMAREX - EDDY CO NM

Project Number:

Project Location:

08/08/2019

701901.088.01

Sampling Date:

08/07/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S - 8 2 (H902714-24)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94,4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
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	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.8	% 37.6-14	!7						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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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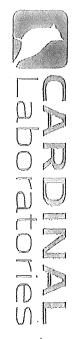


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Mame: 1 clos CFE			ANALYSIS REQUEST	
Project Manager: (Wis Joves		7.0. 巻		
Address: 408 12- Texas		Company: / c (on		
City: Artesia state: NM Z	Zip: 882/0	Attn:		
Phone 崇 (み) ー G C フ Fax 崇		Address:		
Project 崇 701901.088.01 Project Owner:	(imagex	City:		
Project Name: Heckbary 26 bettery		State: Zip:		_,_
Project Location: Eddy 'NM	heri	Phone #:	2	
Sampler Name: CTove S	13	Fax #:		
FOR LAB USE ONLY	. WATRIX	PRESERV SAMPLING	<u>J</u>	
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j Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (578) 393-2326 FAX (575) 393-2476

Company Mame: // Q/o/ C/E		ANALYSIS REQUEST
Project Manager: Chris Tones	P.O. #:	
Address: 408 W. Takes	Company: 76/21	
City: Atosia State: NM Zip: 882th	Attn:	
Phone #: 631 - 6977 Fax #:	Address:	
Project 崇 701901.088.01 Project Owner: () melex	City:	-
	State: Zip:	1
Project Location: Fdd J, NM	Phone #:	
Sampler Name: (To/o)	Fax #:	< T
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Sampler - UPS - Bus - Other:

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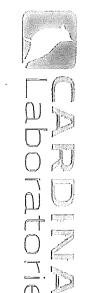
Sample Condition
Cool Infact
Yes 77es
No No

CHECKED BY:

Delivered By: (Circle One)

Relinquished Sy:

SZ:12/11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NW 28246 (575) 393-2326 FAX (575) 393-2476

Company watter 1.0101 CYC		ANALYSIS REQUEST
Project Manager: Chris Jones		
Address: 408 W. Tokes	Company: 76/27	
City: Artesia state: NN Zip: 88275		
Phone #: 631 - 6977 Fax #:	Address:	
Project #: 701 901.088.01 Project Owner: Cimelex	City:	
Project Name: Harbyery 26 Softery	State: Zip:	
Project Location: Feld of NM	Phone \$:	
Sampler Name: (Torb)	Fax #:	
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Sample I.D. Sample	LUDGE THER: CID/BASE: CE/COOL THER:	BI
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