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TALON LPE

Remediation and Closure Report

Klein 33 Federal Com 11H
Eddy County, New Mexico
30-015-42183
Incident #Nrm2030944647

Prepared For:

Cimarex Energy Co.
600 Marienfeld Street, Ste. 600
Midland, TX 79701

Prepared By:

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

November 19, 2020

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

Jim Amos
BLM
620 E. Greene St.
Carlsbad, NM 88220

Subject: **Remediation and Closure Report**
Klein 33 Federal Com 11H
Eddy County, NM
API 30-015-42183
Incident #Nrm2030944647

Dear Mr. Bratcher,

Cimarex Energy Company has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remedial actions, and closure request is presented herein.

Site Information

The Klein 33 Federal Com 11H is located approximately twenty-five (25) miles northwest of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 33, Township 26 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.00025 North and -104.188172 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 Berino Complex association with 0 to 3 percent slopes. The reference soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont alluvial deposits. 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 reported depth to groundwater is 50-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is located within a Karst area.

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

Approximate Depth to Groundwater	50 Feet/BGS

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

Because the release occurred in a karst area, and the depth to groundwater is 50-feet deep, based on the site characterization data the clean up criteria for this site is as follows.

Table I
Closure Criteria for Soils Impacted by a Release

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

Incident Description

On October 26, 2020. A sand dump frac tank filled up and shut the well in. The tuning forks (safety device) on the frac tank were set too high due to human error. The tuning forks were lowered and reset to 6" in order to prevent a reoccurrence. Approximately 8 bbl. of produced water were released. Approximately 7 bbl. were recovered. The release occurred on the pad area and no fluid traversed to the pasture area. The site map is presented in Appendix I.

Site Assessment

On October 29, 2020, Talon mobilized personnel to the site and conducted the initial site assessment. Soil samples were grabbed from the footprint of the spill area and field titrated in order to determine horizontal and vertical impact. The results were conveyed to Cimarex personnel.

On November 02, 2020, Cimarex Energy dispatched equipment to the location in order to excavate the impacted area. Talon personnel were also mobilized to the location to retrieve confirmation soil samples. The excavated area was mapped and photo documentation retrieved for closure documentation. All soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached site plan and the results of our sampling event are presented in the following data table.

11-4-2020 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth ft.(BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	11/2/2020	1'	ND	ND	ND	ND	ND	-	220
S-2	11/2/2020	1'	ND	ND	ND	ND	ND	-	220
S-3	11/2/2020	1'	ND	ND	ND	ND	ND	-	150
S-4	11/2/2020	1'	ND	ND	ND	32	ND	-	240
NSW	11/2/2020	1'	ND	ND	ND	ND	ND	-	160
SSW	11/2/2020	1'	ND	ND	ND	ND	ND	-	200
ESW	11/2/2020	1'	ND	ND	ND	15	ND	-	160
WSW	11/2/2020	1'	ND	ND	ND	ND	ND	-	210
NBG	11/2/2020	0'	ND	ND	ND	ND	ND	-	130
EBG	11/2/2020	0'	ND	ND	ND	ND	ND	-	130
WBG	11/2/2020	0'	ND	ND	ND	ND	ND	-	110
SBG	11/2/2020	0'	ND	ND	ND	ND	ND	-	120

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

Remedial Actions

- Frac tanks were removed, and all surface impact as well as staining was excavated and disposed of at a NMOCD approved solid waste disposal facility.
- Confirmation soil samples were collected and verified analyte levels were below NMOCD and BLM remediation guidelines,
- Fresh caliche, similar in grade was used to backfill the location. The pad area was packed and restored to surrounding grade.

Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required, and that closure with regard to the attached incident be granted.

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

Respectfully submitted,

TALON/LPE

Rebecca Pons

Digitally signed by Rebecca Pons
DN: cn=Rebecca Pons, o=Talon LPE, ou=Artesia, email=Rpons@talonlpe.com, c=US
Date: 2020.11.23 15:34:00 -07'00'

Rebecca Pons
Project Manager

Attachments:

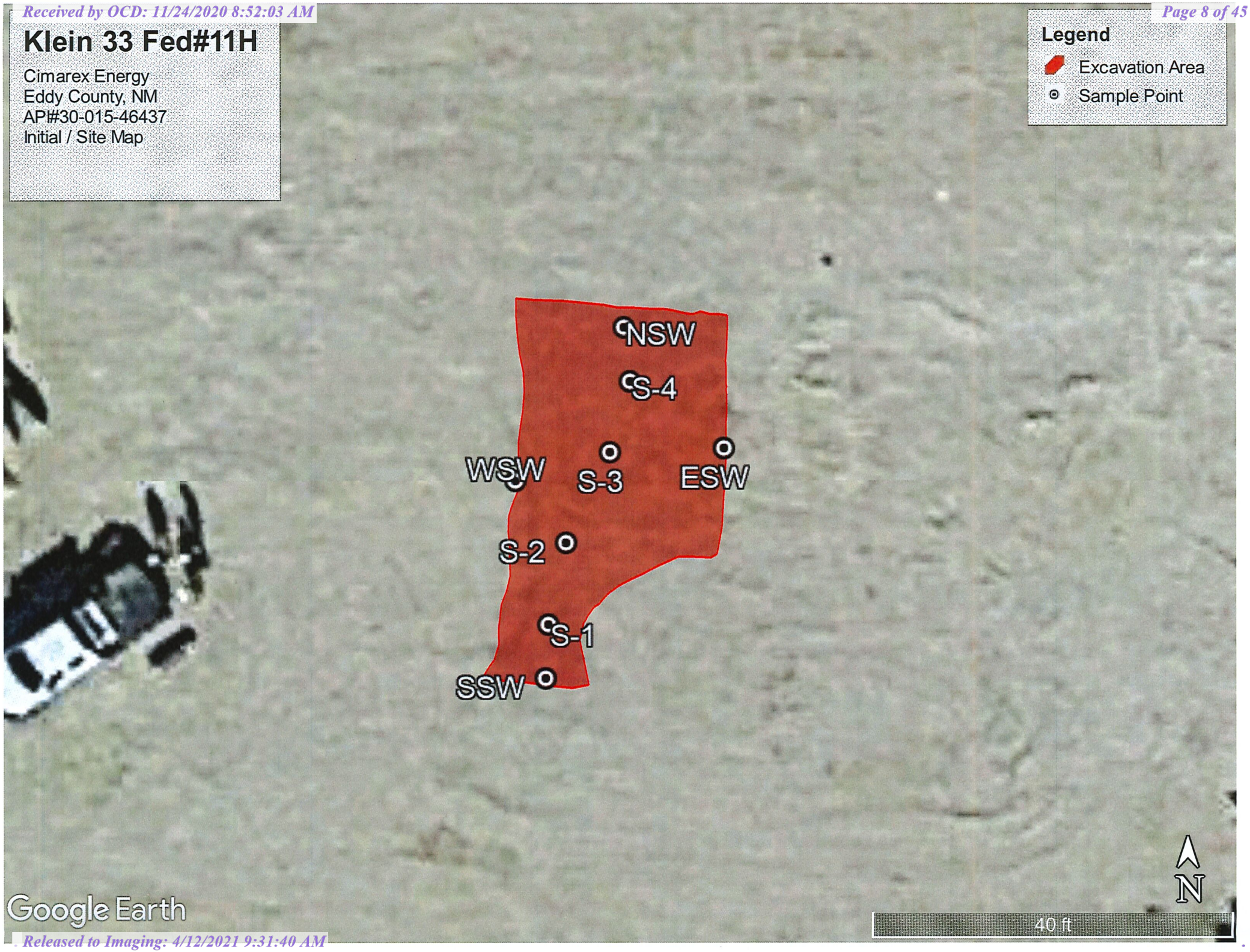
Appendix I	Site Maps, Karst Map, TOPO Map
Appendix II	Groundwater Data, FEMA Flood Zone, Soil Survey
Appendix III	Initial and Final C-141's
Appendix IV	Photo Documentation
Appendix V	Laboratory Analytical Data

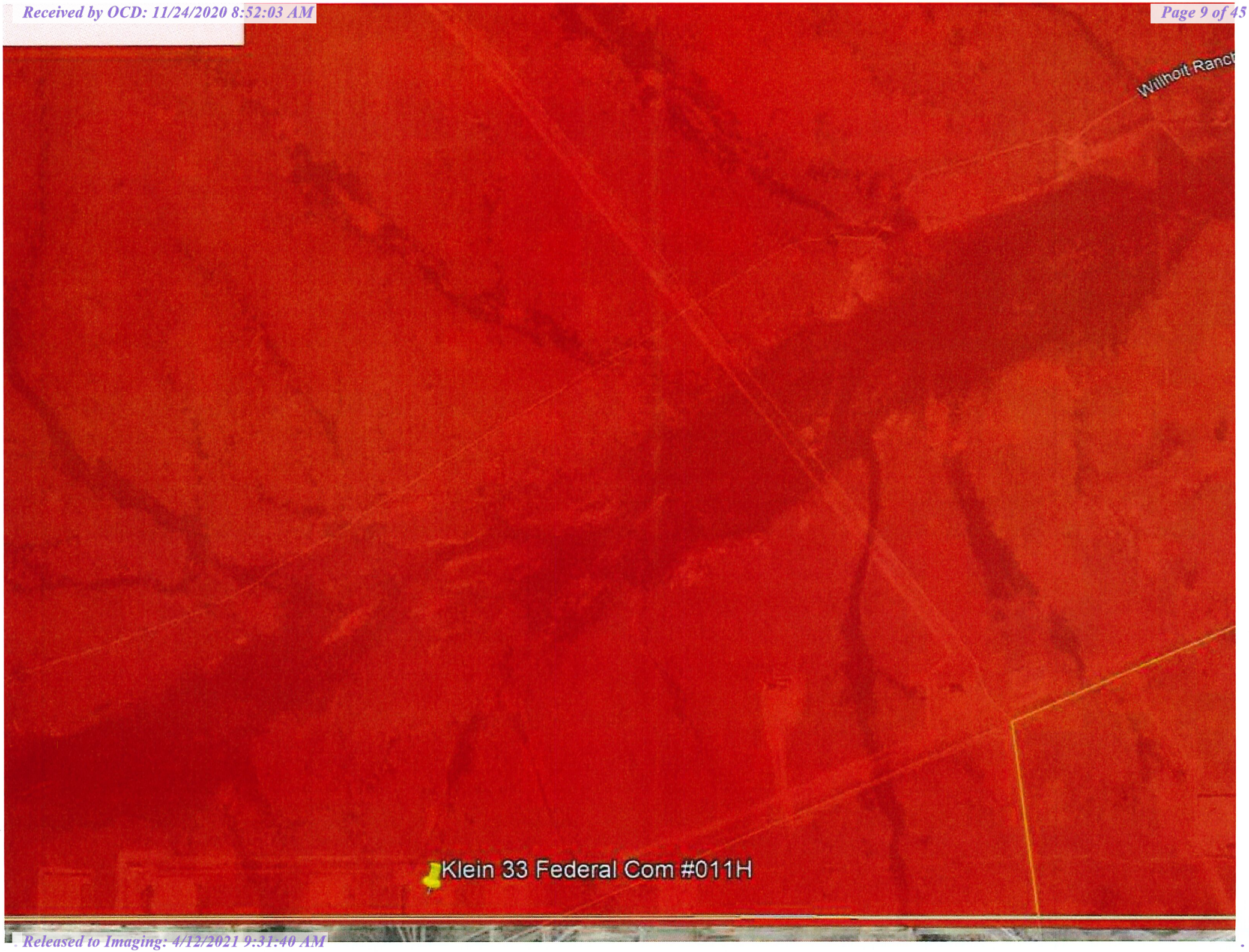
APPENDIX I

SITE MAPS

Klein 33 Fed#11H

Cimarex Energy
Eddy County, NM
API#30-015-46437
Initial / Site Map




Willhoit Ranch
Klein 33 Federal Com #011H


3178T
3200
Klein 33 Fed Com 11H
Point 3
Point 4
Point 2
66 BM 3211

APPENDIX II

SOIL SURVEY,
GROUNDWATER DATA

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent
Pajarito and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Interdunes, plains, dunes
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 9 inches: loamy fine sand
H2 - 9 to 72 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: 40 percent
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 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

Cacique

Percent of map unit: 4 percent
Ecological site: Sandy (R042XC004NM)
Hydric soil rating: No

Wink

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

Pajarito

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

Kermit

Percent of map unit: 3 percent
Ecological site: Deep Sand (R042XC005NM)
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 file.)

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02218		CUB	ED	4	1	4	07	26S	27E	573039	3546725*	35		
C 02219		CUB	ED	4	4	4	05	26S	27E	575033	3547948*	35		
C 02474		CUB	ED		4	3	02	26S	27E	578964	3548029*	100		
C 02475		CUB	ED		2	4	13	26S	27E	581450	3545252*	100		
C 02476		CUB	ED		4	1	24	26S	27E	580653	3544032*	150		
C 02930		C	ED	2	3	4	22	26S	27E	577938	3543284*	100	50	50
C 04269 POD1		CUB	ED	4	2	3	18	26S	27E	572620	3545176	105		

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 7

PLSS Search:

Township: 26S **Range:** 27E

***UTM location was derived from PLSS - see Help**

10/29/20 11:19 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

C-141

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030944647
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50 (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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☑ Data table of soil contaminant concentration data
☑ Depth to water determination
☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☑ Boring or excavation logs
☑ Photographs including date and GIS information
☑ Topographic/Aerial maps
☑ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030944647
District RP	
Facility ID	
Application ID	

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

Printed Name: Gloria Garza Title: ESH Specialist

Signature: gloria garza Date: 11.24.2020

email: ggarza@cimarex.com Telephone: 432.571.7800

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030944647
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Gloria Garza Title: ESH Specialist

Signature: gloria garza Date: 11.24.2020

email: ggarza@cimarex.com Telephone: 432.571.7800

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

orm C-141
age 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030944647
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Gloria Garza Title: ESH Specialist

Signature: gloria garza Date: 11.24.2020

email: ggarza@cimarex.com Telephone: 432.571.7800

OCD Only

Received by: _____ Date: _____

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

osure Approved by: _____ Date: _____

nted Name: _____ Title: _____

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Cimarex Energy Klein 33 Fed Com 11H

PHOTO DOCUMENTATION

Spill Event

Aerial of Site (staining)

Excavation at Source

Excavation of Spill Run

Excavation backfilled to grade

APPENDIX V

LABORATORY DATA

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

November 10, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Klein 33 Fed Com 11 OrderNo.: 2011146

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 12 sample(s) on 11/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2011146**
Date Reported: **11/10/2020**

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-001 **Matrix:** SOIL

Client Sample ID: S1-1'
Collection Date: 11/2/2020 1:00:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	59		mg/Kg	20	11/9/2020 6:15:57 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/5/2020 7:46:23 PM	56205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 7:46:23 PM	56205
Surr: DNOP	91.3	30.4-154		%Rec	1	11/5/2020 7:46:23 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2020 1:29:18 AM	56200
Surr: BFB	91.7	75.3-105		%Rec	1	11/7/2020 1:29:18 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 1:29:18 AM	56200
Toluene	ND	0.049		mg/Kg	1	11/7/2020 1:29:18 AM	56200
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2020 1:29:18 AM	56200
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2020 1:29:18 AM	56200
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	11/7/2020 1:29:18 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-002 **Matrix:** SOIL

Client Sample ID: S2-1'
Collection Date: 11/2/2020 1:10:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	60		mg/Kg	20	11/9/2020 6:28:21 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/5/2020 8:10:21 PM	56205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 8:10:21 PM	56205
Surr: DNOP	85.3	30.4-154		%Rec	1	11/5/2020 8:10:21 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2020 2:39:39 AM	56200
Surr: BFB	93.7	75.3-105		%Rec	1	11/7/2020 2:39:39 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 2:39:39 AM	56200
Toluene	ND	0.047		mg/Kg	1	11/7/2020 2:39:39 AM	56200
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2020 2:39:39 AM	56200
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2020 2:39:39 AM	56200
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	11/7/2020 2:39:39 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-003 **Matrix:** SOIL

Client Sample ID: S3-1'
Collection Date: 11/2/2020 1:20:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	11/9/2020 6:40:46 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/5/2020 8:34:21 PM	56205
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/5/2020 8:34:21 PM	56205
Surr: DNOP	101	30.4-154		%Rec	1	11/5/2020 8:34:21 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2020 3:03:20 AM	56200
Surr: BFB	93.9	75.3-105		%Rec	1	11/7/2020 3:03:20 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	11/7/2020 3:03:20 AM	56200
Toluene	ND	0.049		mg/Kg	1	11/7/2020 3:03:20 AM	56200
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2020 3:03:20 AM	56200
Xylenes, Total	ND	0.099		mg/Kg	1	11/7/2020 3:03:20 AM	56200
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	11/7/2020 3:03:20 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-004 **Matrix:** SOIL

Client Sample ID: S4-1'
Collection Date: 11/2/2020 1:30:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	240	60		mg/Kg	20	11/9/2020 6:53:10 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	32	9.3		mg/Kg	1	11/5/2020 8:58:20 PM	56205
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/5/2020 8:58:20 PM	56205
Surr: DNOP	115	30.4-154		%Rec	1	11/5/2020 8:58:20 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2020 3:26:56 AM	56200
Surr: BFB	91.5	75.3-105		%Rec	1	11/7/2020 3:26:56 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 3:26:56 AM	56200
Toluene	ND	0.049		mg/Kg	1	11/7/2020 3:26:56 AM	56200
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2020 3:26:56 AM	56200
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2020 3:26:56 AM	56200
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	11/7/2020 3:26:56 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-005 **Matrix:** SOIL

Client Sample ID: NSW-1'
Collection Date: 11/2/2020 2:00:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	59		mg/Kg	20	11/9/2020 7:05:35 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/5/2020 9:22:26 PM	56205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 9:22:26 PM	56205
Surr: DNOP	102	30.4-154		%Rec	1	11/5/2020 9:22:26 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/7/2020 5:01:00 AM	56200
Surr: BFB	91.9	75.3-105		%Rec	1	11/7/2020 5:01:00 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	11/7/2020 5:01:00 AM	56200
Toluene	ND	0.050		mg/Kg	1	11/7/2020 5:01:00 AM	56200
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2020 5:01:00 AM	56200
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2020 5:01:00 AM	56200
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	11/7/2020 5:01:00 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2011146**
Date Reported: **11/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-006 **Matrix:** SOIL

Client Sample ID: SSW-1'
Collection Date: 11/2/2020 2:10:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	11/9/2020 7:17:59 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2020 9:46:25 PM	56205
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2020 9:46:25 PM	56205
Surr: DNOP	82.1	30.4-154		%Rec	1	11/5/2020 9:46:25 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2020 5:24:32 AM	56200
Surr: BFB	91.8	75.3-105		%Rec	1	11/7/2020 5:24:32 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	11/7/2020 5:24:32 AM	56200
Toluene	ND	0.049		mg/Kg	1	11/7/2020 5:24:32 AM	56200
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2020 5:24:32 AM	56200
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2020 5:24:32 AM	56200
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	11/7/2020 5:24:32 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011146**
Date Reported: **11/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-007 **Matrix:** SOIL

Client Sample ID: ESW-1'
Collection Date: 11/2/2020 2:20:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	11/9/2020 7:55:13 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	15	10		mg/Kg	1	11/5/2020 10:10:26 PM	56205
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/5/2020 10:10:26 PM	56205
Surr: DNOP	118	30.4-154		%Rec	1	11/5/2020 10:10:26 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2020 5:48:09 AM	56200
Surr: BFB	92.1	75.3-105		%Rec	1	11/7/2020 5:48:09 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 5:48:09 AM	56200
Toluene	ND	0.048		mg/Kg	1	11/7/2020 5:48:09 AM	56200
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2020 5:48:09 AM	56200
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2020 5:48:09 AM	56200
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	11/7/2020 5:48:09 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-008 **Matrix:** SOIL

Client Sample ID: WSW-1'
Collection Date: 11/2/2020 2:30:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	210	60		mg/Kg	20	11/9/2020 8:07:37 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2020 10:34:19 PM	56205
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2020 10:34:19 PM	56205
Surr: DNOP	114	30.4-154		%Rec	1	11/5/2020 10:34:19 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2020 6:11:38 AM	56200
Surr: BFB	92.5	75.3-105		%Rec	1	11/7/2020 6:11:38 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 6:11:38 AM	56200
Toluene	ND	0.048		mg/Kg	1	11/7/2020 6:11:38 AM	56200
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2020 6:11:38 AM	56200
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2020 6:11:38 AM	56200
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	11/7/2020 6:11:38 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-009 **Matrix:** SOIL

Client Sample ID: NBG
Collection Date: 11/2/2020 3:00:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	130	61		mg/Kg	20	11/9/2020 8:20:01 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/5/2020 10:58:20 PM	56205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 10:58:20 PM	56205
Surr: DNOP	71.2	30.4-154		%Rec	1	11/5/2020 10:58:20 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2020 6:35:15 AM	56200
Surr: BFB	91.3	75.3-105		%Rec	1	11/7/2020 6:35:15 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 6:35:15 AM	56200
Toluene	ND	0.047		mg/Kg	1	11/7/2020 6:35:15 AM	56200
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2020 6:35:15 AM	56200
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2020 6:35:15 AM	56200
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	11/7/2020 6:35:15 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-010 **Matrix:** SOIL

Client Sample ID: EBG
Collection Date: 11/2/2020 3:10:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	130	60		mg/Kg	20	11/9/2020 8:32:25 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/5/2020 11:22:04 PM	56205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 11:22:04 PM	56205
Surr: DNOP	70.9	30.4-154		%Rec	1	11/5/2020 11:22:04 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2020 6:58:49 AM	56200
Surr: BFB	91.6	75.3-105		%Rec	1	11/7/2020 6:58:49 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 6:58:49 AM	56200
Toluene	ND	0.049		mg/Kg	1	11/7/2020 6:58:49 AM	56200
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2020 6:58:49 AM	56200
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2020 6:58:49 AM	56200
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	11/7/2020 6:58:49 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-011 **Matrix:** SOIL

Client Sample ID: WBG
Collection Date: 11/2/2020 3:20:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	11/9/2020 8:44:50 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/5/2020 11:46:00 PM	56205
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2020 11:46:00 PM	56205
Surr: DNOP	53.0	30.4-154		%Rec	1	11/5/2020 11:46:00 PM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2020 7:22:19 AM	56200
Surr: BFB	92.0	75.3-105		%Rec	1	11/7/2020 7:22:19 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 7:22:19 AM	56200
Toluene	ND	0.048		mg/Kg	1	11/7/2020 7:22:19 AM	56200
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2020 7:22:19 AM	56200
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2020 7:22:19 AM	56200
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	11/7/2020 7:22:19 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Klein 33 Fed Com 11
Lab ID: 2011146-012 **Matrix:** SOIL

Client Sample ID: SBG
Collection Date: 11/2/2020 3:30:00 PM
Received Date: 11/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	120	60		mg/Kg	20	11/9/2020 9:22:03 PM	56321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2020 12:09:48 AM	56205
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2020 12:09:48 AM	56205
Surr: DNOP	44.0	30.4-154		%Rec	1	11/6/2020 12:09:48 AM	56205
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2020 7:45:56 AM	56200
Surr: BFB	92.3	75.3-105		%Rec	1	11/7/2020 7:45:56 AM	56200
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	11/7/2020 7:45:56 AM	56200
Toluene	ND	0.048		mg/Kg	1	11/7/2020 7:45:56 AM	56200
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2020 7:45:56 AM	56200
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2020 7:45:56 AM	56200
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	11/7/2020 7:45:56 AM	56200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011146**

10-Nov-20

Client: Talon Artesia

Project: Klein 33 Fed Com 11

Sample ID: **MB-56321**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **56321**	RunNo: **73210**
Prep Date: **11/9/2020**	Analysis Date: **11/9/2020**	SeqNo: **2576427** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-56321**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **56321**	RunNo: **73210**
Prep Date: **11/9/2020**	Analysis Date: **11/9/2020**	SeqNo: **2576430** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011146**

10-Nov-20

Client: Talon Artesia

Project: Klein 33 Fed Com 11

Sample ID: **LCS-56205**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **56205**	RunNo: **73123**
Prep Date: **11/4/2020**	Analysis Date: **11/5/2020**	SeqNo: **2573678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	70	130			
Surr: DNOP	5.2		5.000		105	30.4	154			

Sample ID: **MB-56205**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **56205**	RunNo: **73123**
Prep Date: **11/4/2020**	Analysis Date: **11/5/2020**	SeqNo: **2573680** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	30.4	154			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011146**

10-Nov-20

Client: Talon Artesia

Project: Klein 33 Fed Com 11

Sample ID: **lcs-56185**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **56185**	RunNo: **73179**
Prep Date: **11/3/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574317** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: **lcs-56200**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **56200**	RunNo: **73179**
Prep Date: **11/4/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.9	72.5	106			
Surr: BFB	1100		1000		106	75.3	105			S

Sample ID: **mb-56185**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **56185**	RunNo: **73179**
Prep Date: **11/3/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574320** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.5	75.3	105			

Sample ID: **mb-56200**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **56200**	RunNo: **73179**
Prep Date: **11/4/2020**	Analysis Date: **11/7/2020**	SeqNo: **2574321** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.5	75.3	105			

ualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011146**

10-Nov-20

Client: Talon Artesia

Project: Klein 33 Fed Com 11

Sample ID: **2011146-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **S1-1'**	Batch ID: **56200**	RunNo: **73179**							
Prep Date: **11/4/2020**	Analysis Date: **11/7/2020**	SeqNo: **2574354**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9980	0	92.7	76.3	120			
Toluene	0.98	0.050	0.9980	0.01021	96.8	78.5	120			
Ethylbenzene	0.98	0.050	0.9980	0	98.0	78.1	124			
Xylenes, Total	2.9	0.10	2.994	0	97.9	79.3	125			
Surr: 4-Bromofluorobenzene	0.97		0.9980		97.5	80	120			

Sample ID: **2011146-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **S1-1'**	Batch ID: **56200**	RunNo: **73179**							
Prep Date: **11/4/2020**	Analysis Date: **11/7/2020**	SeqNo: **2574355**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9775	0	89.9	76.3	120	5.17	20	
Toluene	0.94	0.049	0.9775	0.01021	95.4	78.5	120	3.50	20	
Ethylbenzene	0.95	0.049	0.9775	0	97.0	78.1	124	3.05	20	
Xylenes, Total	2.8	0.098	2.933	0	96.2	79.3	125	3.74	20	
Surr: 4-Bromofluorobenzene	0.96		0.9775		98.0	80	120	0	0	

Sample ID: **LCS-56185**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **56185**	RunNo: **73179**							
Prep Date: **11/3/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574369**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: **LCS-56200**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **56200**	RunNo: **73179**							
Prep Date: **11/4/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574370**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: **mb-56185**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **56185**	RunNo: **73179**							
Prep Date: **11/3/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574372**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011146**

10-Nov-20

Client: Talon Artesia

Project: Klein 33 Fed Com 11

Sample ID: **mb-56185**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **56185**	RunNo: **73179**
Prep Date: **11/3/2020**	Analysis Date: **11/6/2020**	SeqNo: **2574372** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: **mb-56200**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **56200**	RunNo: **73179**
Prep Date: **11/4/2020**	Analysis Date: **11/7/2020**	SeqNo: **2574373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.5	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Talon Artesia** Work Order Number: **2011146** RcptNo: **1**

Received By: **Emily Mocho** **11/4/2020 8:00:00 AM**

Completed By: **Emily Mocho** **11/4/2020 8:29:15 AM**

Reviewed By: AR 11/4/20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: JR 11/4/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 4-Day

☑ Standard ☐ Rush

Project Name: Klein 33 Fed Com 11 (Klein)

Project #: 701162.098.01

Project Manager: R. Pons

Sampler: R. Bell

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.1+0=2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2011140	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/2/20	1:00	Soil	S1-1'	Jar	Ice/Cool	001	X	X					X			
	1:10		S2-1'			002										
	1:20		S3-1'			003										
	1:30		S4-1'			004										
	2:00		NSW-1'			005										
	2:10		SSW-1'			006										
	2:20		ESW-1'			007										
	2:30		WSW-1'			008										
	3:00		NBG			009										
	3:10		EBG			010										
	3:20		WBG			011										
	3:30		SBG			012										

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/3/20	1000	Ryan Bell			11/3/20	1000
11/3/20	1900		Em	courier	11/4/20	800

Remarks: Please cc the following via email:
Dadkins@talonlpe.com
Rpons@talonlpe.com
rbell@talonlpe.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030944647
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Gloria Garza Title: ESH Specialist

Signature: gloria garza Date: 11.24.2020

email: ggarza@cimarex.com Telephone: 432.571.7800

OCD Only

Received by: Robert Hamlet Date: 4/12/2021

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

osure Approved by: Robert Hamlet Date: 4/12/2021

nted Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 11311

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CIMAREX ENERGY CO. 600 N. Marienfeld Street Suite 600 Midland, TX79701	215099	11311	C-141

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2030944647 KLEIN 33 FEDERAL COM, thank you. This closure is approved.